



SEATTLE SECTION NEWSLETTER

June 2008
Volume 43 No. 10

Section Officers

October 1, 2007 – September 30, 2008

SEATTLE SECTION OFFICERS

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360-647-7151

BOEING BRANCH OFFICERS

Kenneth DeBord, *President*
425-237-4294

WEBMASTER

Lisa Martinez
seattleasce@yahoo.com

ASCE Seattle Section Meeting

Wednesday, June 11, 2008

Place: McCormick & Schmick's Harborside Restaurant
1200 Westlake Avenue North
Seattle, Washington 98109

Cost: \$25 per person (\$30 for late reservations)
Students \$10
Spouses and guests are welcome.
Cash or checks payable to ASCE are accepted.

Meal: Pork Loin Chop with Gravy - or - Cheese Tortellini with Sun
Dried Tomato Cream. Dessert: Cheesecake

5:30 Socialize

6:15 Dinner

7:00 Program: 8th Annual Outstanding Civil Engineering
Achievement Awards Presentation

8:45 End

Please make your reservations by

NOON Monday, June 9, by calling 206-926-0482

(voice mail system only — please leave a message)
or by sending an email to:
seattleascereservations@gmail.com

Please indicate with RSVP if the vegetarian meal is preferred

8th Annual Outstanding Civil Engineering Achievement Awards Presentation

The eighth annual Outstanding Civil Engineering Achievement Awards night will be held at the June Section meeting. 18 qualified entries were received. Judging was carried out by 20 members with representatives from the respective Section technical committees. The Awards Night will recognize nine projects for their overall excellence in design. Besides the nominating firms, credit goes to the other firms on the project team and the owner's/clients' staff who contributed to the success of these projects. Two "Outstanding Awards" and seven "Honor Awards" will be presented.

Don't miss this opportunity to recognize your fellow ASCE members and celebrate the great work we are doing within the Seattle Section area in maintaining and enhancing the environment and infrastructure upon which our quality of life and safety depends.

The deadline for the
September 2008 issue is
5:00 p.m.
FRIDAY, August 15, 2008
No exceptions.

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newsletter editor shown above.

#### AMERICAN SOCIETY OF CIVIL ENGINEERS, SEATTLE SECTION

<http://www.seattleasce.org>

Volume 43 No. 10, June 2008  
Published 10 times a year

#### ASCE SEATTLE SECTION NEWSLETTER ADVERTISING RATES

##### Employment Ads:

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75 cents per word

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First 75 words free  
75 cents per each additional word

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Contact the editor at  
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for pricing and format requirements.

## President's Column

By Joshua Shippy, PE  
YMF President, Seattle Section, ASCE

I've had the pleasure of being President of the Younger Member Forum (YMF) this past year and would like to give everyone an update. Before jumping into all of the details, I'd like to say thanks to all of the YMF officers and committee chairs - you have truly made it an exciting and productive year!

One of our highlights this past year was awarding the first Popsicle Stick Bridge Scholarship that we have been fundraising for. We had several great applications. Tied to that, we had another great turnout at the 13th Annual Popsicle Stick Bridge contest; more than 75 students from 28 schools participated. \$1,000 was raised for the scholarship fund. The third annual golf tournament was also a success and raised \$1,275. It's not too late to donate or register a team for this year's tournament to be held on July 11th.

YMF hosted two types of technical tours to try to accommodate different engineering disciplines. The first tour was hosted by Sound Transit; they gave us a close-up look at the new link light rail scheduled to open next year. The second tour was hosted by YMCA Camp Seymour. There we got a behind the scenes look at the Living Machine that recycles the camp's wastewater.

This year we have had several younger members win awards and new positions. Eric Herzstein won the 2008 Puget Sound Engineering Council's Young Engineer of the Year award. Doug Knapp was selected to be the Western Geographic Member for the ASCE Committee on Younger Members group.

Our group was well represented at the National and Western Regional Younger Member Council (WRYMC) conferences held in Orlando and Las Vegas, respectively. At WRYMC, we were introduced to the new career development modules developed by ASCE through the "Supercharged 5-Year Career Plan" presentation. We presented this module to our local group at this past year's winter leadership retreat and ski trip. We have local engineers helping develop new career development modules. We held another module in April, and the applications workshop module had two parts. First, we had a panel of engineering business leaders discuss marketing ourselves within our current organizations. Second, we were able to role-play telling our bosses "bad news." Hopefully, we are ahead of the curve now and will rarely be put in these situations in real life!

It's always great seeing new faces at the YMF events, so if you know of any "younger" engineers at your office, please send them to the ASCE website to find out when our next event is being held!

Sincerely,

*Josh Shippy, P.E.*  
Seattle Section YMF President

## Jon Magnusson Elected as a Distinguished Member

By Jack Bjork, PE

In May, Section member Jon Magnusson was elected to be a Distinguished Member of ASCE, which is the highest honor given to members. There are now 577 individuals who have been elected to this distinguished grade of membership since 1853. Of the 192 living Distinguished Members, only three are from Washington.

Jon Magnusson is the Chairman/CEO of Magnusson Klemencic Associates, a 140-person structural and civil engineering firm in Seattle that has completed work in 45 states and 36 countries. Jon received his bachelor's degree in civil engineering from the University of Washington and then his master's in civil engineering from the University of California, Berkeley. He was named CEO in 1988 and Chairman of the Board in 1998.

Jon has been the principal structural engineer for over \$1.5 billion worth of construction in the last five years alone. He has been responsible for the structure of many Seattle landmarks including the Experience Music Project, KeyArena, Benaroya Hall, Safeco Field, Seahawks Stadium, and of course, the Seattle Central Library.

This is a great but well deserved honor for Jon. Our congratulations to him.



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## 2008 ASCE Seattle Section Election Results

By Marc Schulte, PE, D. WRE  
Seattle Section Secretary

The officer election results are in and the new members for the Section Board for 2008-2009 include:

- President ... Ann Bryant
- President Elect ... Ron Bard
- Treasurer ... Garth Merrill
- Director 2008-2011 ... Erin Fletcher

Congratulations to the winners! We had a typical turnout of 115 with about 80% of voters using our on-line ballot option.

### EXPLOSION EFFECTS DESIGN TRAINING COURSE

Participants will learn about Explosion Effects, Blast Mitigation, Blast Retrofit, Blast Resistant Design, and Protective Design of Structures.

2-day Training Course  
Dr. Sam Kiger, PE  
573-882-3285  
[www.BlastDesignTraining.com](http://www.BlastDesignTraining.com)



## Explosion Effects and Structural Design for Blast

Holiday Inn Washington Dulles Airport

July 22 and 23, 2008

Instructors: Dr. Sam Kiger and Dr. Stan Woodson

Engineers will improve their skills in understanding explosion effects, blast mitigation, retrofit concepts, and blast resistant design of structures. Architects and first responders and others will also benefit by understanding explosion effects and protective design methods.

For more information and secure on-line registration visit:

<http://www.blastdesigntraining.com/>

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## ASCE Seattle Section Executive Board Meeting Minutes

### For May 14, 2008

#### ATTENDANCE

##### Board Members

**Present:** Ann Bryant, Arthur Fleming, Jeanne Justice, Garth Merrill, Marc Schulte, Josh Shippy (for Doug Knapp), Cliff Williams.

**Absent With Notice:** Jack Bjork, Perry Cole

**Quorum:** YES

**Other Members Present:** Paul Grant

**Visitors:** None.

#### CALL TO ORDER

Section President-Elect Ann Bryant called meeting to order at 4:30 p.m.

Board unanimously approved April 9, 2008 meeting minutes.

#### PROCEEDINGS

##### Regular Business

##### Treasurer's Report

Income and expenses generally appear to be on track. There is still concern about newsletter advertising revenue. Payments are on schedule for RH Thomson scholarships. Student chapters have yet to request their allocations. Most committees have not been spent their allocated budgets. Reminder that there is an expense report template located in the eRoom.

NO ACTION ITEMS

##### Standing Committee Reports

Standing Committee report will be posted to eRoom this week.

##### *History and Heritage Committee*

I-90 and Mt. Baker tunnel have been approved as national civil engineering landmarks; H&H committee planning on doing presentation to the Section this fall. Board needs to start gathering archive materials for 2008. Marc (and also an YMF officer) will need to coordinate with Cindy to get materials together by August.

##### *Awards Committee*

Cliff Williams reported that outstanding project award recipients have been selected, and plaques have been ordered.

##### *Puget Sound Engineering Council (PSEC)*

PSEC held an Order of the Engineer ceremony at the University of Washington. PSEC may be interested in setting up their own OE "link."

#### ACTION ITEM

*Background:* PSEC is changing their bylaws, mostly house-keeping in nature. Dues structure will be changing.

*Discussion:* While ASCE's base dues will increase, PSEC will be reducing the number of requests for separate contributions so there should be little net change.

*Motion:* Approve proposed PSEC bylaw changes and changes to their dues structures. (Ann Bryant). 2nd (Garth Merrill).

Motion Passed

#### Branch Reports and Action Items

Branch report was posted to eRoom earlier this week.

North Branch is sponsoring Diablo Canyon Dam tour this Friday. Boeing Branch is looking for more opportunities for joint activities with Seattle Section and North Branch.

NO ACTION ITEMS

#### Technical Committees

Technical committees report was posted to eRoom earlier this week.

NO ACTION ITEMS

#### YMF Report and Action Items

YMF report submitted to eRoom earlier in week.

Popsicle Stick Bridge Scholarships will be presented at tonight's meeting.

NO ACTION ITEMS

#### Old Business

##### Elections

Marc gave a brief update on the 2008 ASCE Seattle Section officer elections. There have been just over 100 ballots submitted. Approximately 80 percent of voters used the on-line option, which has saved a lot of work in tallying the ballots. The polls are open until 11:59 p.m. May 15th.

##### Web Site

Ann Bryant gave a brief update on the update of the ASCE Seattle Section website. The goal is to have the new web site "go live" in August, in time for new officer change-over. Ann asked the Board to advise the web site team of any recommended changes. Initial suggestions discussed included providing a yearly calendar; de-coupling Board meeting minutes from the newsletter on the web-site; and providing a link to calendar in website.

NO ACTION ITEMS

See *May Minutes* on page 5



## New Business

### Seattle University Steel Bridge Funding Request

*Background:* Seattle University student chapter has requested \$1000 in support of their steel bridge team's travel to the ASCE/AISC National Student **Steel Bridge** competition in Florida.

*Discussion:* Funding should be available in current budget. SU has not requested their full student allotment for 2007-2008, though the (separate) student activities fund may be over budget for this year. Concern expressed to maintain some balance between the student sections. It was pointed out that making it to National level does not happen every year, and we should support the students when they do so well.

*Motion:* The Seattle Section Board approves Seattle University student chapter's request for \$1000 in support of their travel to the national steel bridge competition, which will be funded from the student activity fund. (Bryant). Williams (2nd).

Motion Passed.

### Event/Email Management System

Marc discussed the possibility of exploring acquiring system to manage email announcements and events. Section currently uses gmail system, which is apparently difficult to manage and update. There was a consensus that a better "email blast" system might be useful. There was a suggestion to see whether ASCE National has a system in place, or could make recommendations for Seattle Section. Marc will look into options over the summer.

### Rebuilding Together

Arthur briefly discussed Rebuilding Together. It was a successful event with a good turn-out. Photos will be forthcoming.

### Announcements for Meeting

- Order of the Engineer ceremony before meeting.
- YMF Scholarships Presentation (Josh)
- UW Concrete Canoe
- SU Steel Bridge
- Seattle Section ASCE Outstanding Project Awards are being presented at next month's meeting (Cliff or Ann)

### Adjournment

Meeting adjourned at 5:35 p.m.

Minutes submitted by Secretary, Marc A. Schulte

## YMF SUMMER EVENTS

### Seattle A/E Volleyball League May 27 thru August 24, 2008

The YMF will be fielding a co-ed outdoor (grass) volleyball team this summer, May 27th thru August 24th, on Tuesday evenings at Green Lake. The team will be playing in the Informal Casual division of the Seattle A/E Volleyball League, so players of all ability levels are welcome to join the fun. A final tournament will be held on Sunday, August 24th. Contact James Le ([james@kpg.com](mailto:james@kpg.com)) for more information or to get on the roster.



### Fremont Briefcase Relay June 6, 2008

Come celebrate the start of summer with the popular 24th Annual Fremont Briefcase Relay on June 6, 2008.

Teams consist of five people (each runs 1k) dressed from the waist up in regular business attire and carrying a briefcase which contains the Seattle Yellow Pages. Form a team at work or join the YMF catch-all team. There is also a 5k run/walk and post-race festivities that include music, vendors, prizes and the Foxy Drinker's Lounge beer garden. Contact James Le ([james@kpg.com](mailto:james@kpg.com)) for more details.



### 4th Annual ASCE Seattle Section YMF Golf Tournament July 11, 2008

Proceeds from the tournament help establish scholarship fund to benefit local high school/college students interested in careers in Civil Engineering or related fields. Sign up today to reserve your spot.

**Date:** July 11th, 2008 – Shotgun Start 8:00 AM

**Location:** Willows Run Golf Course – Eagles Talon

**Format:** 18-Hole Modified Scramble w/4 Person Teams

**Price:** \$100 – Per Player – Includes Golf, Cart w/GPS, Range Balls and Lunch

Registration forms will be posted shortly on the ASCE Seattle Section website at [www.seattleasce.org](http://www.seattleasce.org) For more information on sponsorship opportunities, prizes or if you would like to help out, contact Eric Herzstein at 206-494-0941 or [eric.herzstein@parsons.com](mailto:eric.herzstein@parsons.com).



## Rebuilding Together 2008

By Liz Korb

I want to sincerely thank all of the volunteers for making our 2008 Rebuilding Together project such a success. This year's project was to build a fence and a new retaining wall for an elderly woman on Capitol Hill. The woman had been having some problems with people causing trouble in her yard and so she was extremely grateful to us for providing her some security.

Rebuilding Together Day was lucky to land on the most beautiful in April day. I was worried that many of the volunteers would not show up to go enjoy the nice weather but I was very wrong; not only did we have all of the volunteers show up but we had some additional friends and family join as well. On Saturday we had 22 volunteers. The morning was a great stress reliever of getting to demolish the old wall and dig some dirt. The next phase was to build the wall. Getting started was a little slow but once we got a system down the wall just flew up. The day ended with only a few of the die hard volunteers setting the bases up for the fence posts. Our seven volunteers on Sunday got to pour the concrete for the fence posts and then erect the fence and install the new steel gate.

The new fence and wall look great after we were done but I was sorry that during the tearing down of the old wall we were forced to dig up the flowers lining the front of the house. But just this last weekend I was on a walk and went out my way to go see the final touches and the woman and her family were all in the front yard planting a beautiful garden, which thanks to our fence, will be safe.

Rebuilding Together Seattle reported that overall they had over 700 volunteers working on 21 homes and 6 non-profit facilities in Seattle this year. Rebuilding Together will acknowledge ASCE and other sponsors in the May 30 issue of the Puget Sound Business Journal. If you would like more information, go to [www.RTSeattle.org](http://www.RTSeattle.org).



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# SU Steel Bridge & UW Concrete Canoe Go To Nationals!

By Nirmala Gnanapragasam Ph.D., P.E. and Candice Au-Yeung

The Seattle University Steel Bridge team received 2nd place and the University of Washington Concrete Canoe team placed 1st at the 2008 ASCE Pacific Northwest Student Conference held in Portland, Oregon on April 25-26. Both teams qualified to compete at their respective National Competitions.

This is the first time that Seattle University has participated in the Steel Bridge competition. Kudos to the Steel Bridge team members: Ryan Daudistel, Edward De Broeck, Glenn Strid, Michael Shattuck, Kavik Frol, and Royce Miyahara. The team competed at the national event at the University of Florida in Gainesville on May 23-35 and placed 3rd in the "Stiffness" category. See all results here: <http://www.2008steelbridge.com/results.html>. Partial funding for this trip was provided by the ASCE Seattle Section. For details or to help sponsor the team next year, go to: <http://students.seattleu.edu/clubs/asce/steelbridge/>.

The University of Washington Concrete Canoe Team was led by Candice Au-Yeung and Ryan Mak and had the following people competing in Portland: Kasey Faust, Ron Ignacio, Kenneth Schonberger, Elizabeth Thomas, Seth Thomas and Marina Kopytkovskiy. Other team members that couldn't be included on the official roster (which was limited to ten members) included: Wendnara Phok, Yu Tang, Kevin Lee, Adrienne Murphy, Micah Ramey, and Jason Au-Yeung. The team was also mentored by the Captain of last year's team, Kris McArthur and Professors Donald Janssen and Peter Mackenzie from the University of Washington. The team will be competing at the École de technologie supérieure (ÉTS) in Montréal, Canada June 19-21. For more details or to help sponsor the team, go to: <http://www.ce.washington.edu/about/news/news.html#canoe>.

**Congratulations to all the students !!!!**



Seattle University's 2008 Steel Bridge Construction Team



2008 University of Washington Concrete Canoe Team

## Welcome New ASCE Members!

We would like to welcome our 18 new members to the Seattle Section\* during April and May. If you see someone you know, give them a call.

(\*No new members for North or Kitsap Branches to report.)

### Name (First, Last)

|          |                 |
|----------|-----------------|
| Natalie  | Breyfogle/Clair |
| Rawad    | Hani            |
| Joe      | Ferzli          |
| Timothy  | Bishop          |
| Kevin    | Lee             |
| Erika    | Ottenbreit      |
| Kieran   | Gaffey          |
| Ray      | Smalling        |
| Ian      | Mckelvey        |
| Bradford | Singley         |
| Asegu    | W Mariam        |
| Solomon  | Haile           |
| Robbie   | Hyland          |
| Melissa  | Tremayne        |
| Ross     | Jarvis          |
| James    | St John         |
| Terry    | Davis           |
| Nolan    | Adams           |

### Occupation

|                           |
|---------------------------|
| Student                   |
| Transportation Consultant |
| Senior Associate          |
| Student                   |
| Student                   |
| Student                   |
| Director of Operations    |
| Engineer                  |
| Project Engineer          |
| Hydraulic Engineer        |
| Facility Manager          |
| Student                   |
| Structural EIT            |
| Student                   |
| Civil Project Manager     |
| Project manager           |
| Tech FE Engr              |
| Design Engineer           |

### Employer / School

|                                 |
|---------------------------------|
| Washington State University     |
| The Transpo Group               |
| Cary Kopczynski Company         |
| University of Idaho             |
| University of Washington        |
| Washington State University     |
| CDS Lt., Inc.                   |
| Otak                            |
| Brown amp; Caldwell             |
| Northwest Hydraulic Consultants |
| Ampco                           |
| HDR Engineering Inc             |
| University of Washington        |
| DCI Engineers                   |
| David Evans & Associates Inc    |
| Boeing Company                  |
| Apex Engineering                |



## Seattle Works Day is Coming...!

by Sam Swartz, PE

With the weather (finally) warming up, it's time to get outside and enjoy the sunshine...and help out the Seattle community in the process. Seattle Works Day, sponsored by who else but Seattle Works, is coming on **Saturday, June 7th**. This one-day yearly event raises money for the organization while giving back to the community. The Seattle ASCE-YMF has formed a team again this year. If you have any questions, or would like to participate, contact Sam Swartz at [Swartz@jacobssf.com](mailto:Swartz@jacobssf.com). You can join the ASCE-YMF team, come as an individual, or form your own company team.

The following schedule has been set for this year:

**Noon to 3:30 PM:** Help out around the community at locations to be determined soon. Show up 15 to 30 minutes early to pick up a free t-shirt, sign waivers (just a standard procedure), and grab some grub compliments of ASCE-YMF. Then get down to work. Past projects have included pulling weeds and planting trees at Magnusson, Thornton and Discovery Parks; cleaning up around Thurgood Elementary School; and boxing up classroom materials at Ballard High School. The event will most likely take place at a City of Seattle school or park.

**3:30 to 5:30 PM:** After Party at Seattle Center. This has been a blast, and very well attended in past years. Bring your ID, your empty stomach, and your parched lips!

To sign up, visit the event website at: [http://www.seattleworks.org/AboutUs/index.php/SWD/swd\\_intro.html](http://www.seattleworks.org/AboutUs/index.php/SWD/swd_intro.html)

Click on the "Sign up today!" link. If you want to participate as a member of the ASCE-YMF team, click on Option B (Team Member – Private Team), fill in the following page, then in the pull-down menu, find the ASCE-YMF team (should be near the top). Alternately, you can sign up as an individual or form a new team. Registration cost is \$30, and can either be paid on-line, or arrange for other forms of payment.

## YMF 2008-2009 Elections and BBQ – June 18

By Rhiannon Parmelee, EIT

Save the Date! In lieu of June happy hours, we will be having our annual barbeque at Golden Gardens Park (8499 Seaview Pl NW, Seattle 98107) on Wednesday, June 18. More details to come. This event will also serve as our Younger Member Elections for the 2009 fiscal year. The positions open for next year are listed below. Please e-mail Melissa Wu ([mwu@ch2m.com](mailto:mwu@ch2m.com)) if you are interested in a position(s), have any questions, or have any other ideas of how you would like to be involved.

### Officer Positions

- *President Elect*
- *Treasurer*
- *Secretary*

### Committee Chair Positions

- *Popsicle Stick Bridge Competition Chair* - Leads planning and organization of annual high school Popsicle Stick Bridge Competition
- *Seattle Program Chair* - Plans Seattle happy hours and technical presentations
- *Bellevue Program Chair* - Plans Eastside happy hours and technical presentations
- *Univ. of Washington University Outreach Liaison* - Acts as the connection between YMF and the UW ASCE chapter
- *Seattle U. University Outreach Liaison* - Acts as the connection between YMF and the SU ASCE chapter
- *Outreach Chair* - Organizes K-12 outreach activities
- *Social Chair* - Organizes the annual holiday party, pub crawl, and other special social events
- *Sports Activities Chair* - Organizes YMF sports events and activities
- *Golf Tournament Chair* - Organizes annual YMF golf tournament
- *Technical Tour Chair* - Plans technical tours for YMF members
- *Community Service Chair* - Organizes community service events and opportunities
- *Scholarship Chair* - Responsible for managing funds we will use to endow a scholarship for high school students



## 2008 Student Presentation Competition

by Eric O'Brien, PE

Have you ever been to a presentation about an Ecológico Beneficio in Bolivia? Maybe a presentation about how to improve the rate of growth of a type of algae that produces omega-3 fatty acids? If you had been at the Seattle Section's Annual Student Presentation Competition on May 7th, you would have been able to see these and nine other presentations by students from Seattle University and the University of Washington.

UW was the host school this year and stepped things up a bit by having the presentations in Mueller Hall. It was a good thing we had the extra room, because we had one of the largest turnouts of students in recent years, with five presentations from Seattle University and six from the University of Washington.

The Seattle Section's University Advisory Committee sponsored the event and committee member Mark Kilgore was able to get Section members, Jeanne Justice, Doug Knapp, Brian Beaman and Rick Tomkins to be the judges for the competition.

Teams this year included: Jason Pang; Kyle Smith and Matt Marineau; Amanda Jellin; Chris Stoll and Ryan Doudistel; Scott Goodall; Patrick Cummings; Ben Hughes; Rich Adams and Jeremiah Bowles; Laurie Duncan; Ryan Tilley and Ed DeBroeck; Jess Sunshine.

The scores were very close, but in the end, these were the presentations the judges selected:

### Results from the 2008 Student Presentation Night for the Seattle Section of ASCE

| Place | Amount | Seattle U                                                               | UW                                                            |
|-------|--------|-------------------------------------------------------------------------|---------------------------------------------------------------|
| 1st   | \$300  | "Swamp Creek Bridge"<br>by Ryan Tilley & Ed DeBroeck                    | "Algal Growth"<br>by Laurie Duncan                            |
| 2nd   | \$100  | "Highland Terrace Drainage Analysis"<br>by Rich Adams & Jeremiah Bowles | "Precast Bridge Bent Connection"<br>by Jason Pang             |
| 3rd   | \$75   | "Ecológico Beneficio"<br>by Patrick Cummings                            | "Seismic Evaluation of Prestressed Piles"<br>by Amanda Jellin |

The First Place teams from each school then went on to present at the May Section meeting on May 14th. The First, Second and Third Place teams were also awarded their prizes at the May Section meeting.

Thank you to everyone that participated in this year's event! We are looking forward to seeing even more students and Section members next year.



Section President-Elect Ann Bryant present University of Washington students Laurie Duncan and Jason Pang with their certificates. (Not pictured: Amanda Jellin)



Section President-Elect Ann Bryant present Seattle University students Ed DeBroeck and Ryan Tilley with their First Place certificates. (Not pictured: Rich Adams, Jeremiah Bowles and Patrick Cummings)

# ASCE 2007 Local Outstanding Civil Engineering Achievement Awards

By: Cliff Williams, PE Immediate Past President

The eighth annual Outstanding Civil Engineering Achievement Awards night will be held at the June Section meeting on Wednesday, June 11. 18 qualified entries were received and judging was carried out by 20 members with representatives from the respective Section technical committees.

The Awards Night will recognize nine projects for their overall excellence in design. Besides the nominating firms, credit goes, where applicable, to the other firms on the project team and the owner's/clients' staff who contributed to the success of these projects. Two "Outstanding Awards" and seven "Honor Awards" will be presented.

Don't miss this opportunity to recognize your fellow ASCE members and celebrate the great work we are doing within

the Seattle Section in maintaining and enhancing the environment and infrastructure upon which our quality of life and safety depends.

Each award-winning team will make a short presentation at the ceremony describing the challenges they faced and the solutions which led to successful implementation of their designs.

Award-winning teams are encouraged to invite the owner and their family and friends to celebrate their achievements. Mark your calendar for this exciting evening as we celebrate our civil engineering achievements of 2007.

## Award Winning Entries:

| Category                            | Sponsor                                          | Project                                           | Owner                            |
|-------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------|
| Geotechnical                        | Golder Associates, Richard Luark, PE             | Escala Condominiums: 94 Ft Deep Excavation        | Lexas Companies, LLC             |
| Ports and Waterways                 | Hart Crowser, Arthur Fleming, PE                 | Alternate Outfall Replacement Project             | Public Works, City of Bellingham |
|                                     | Reid Middleton, Woosuk "Willy" Ahn, PE, PhD      | Bremerton Floating Wave Attenuator                | Port of Bremerton                |
| Structural                          | Reid Middleton, Dave Swanson, PE, SE             | Naval Hospital Bremerton Seismic Upgrades Program | Naval Hospital, Bremerton        |
|                                     | INCA Engineers, Inc. Dale Lydin, PE 425 635-1000 | SR 509 Marine View Dr. Bridge                     | Des Moines Creek Basin Committee |
| Transportation and Development      | INCA Engineers, Inc. Chuck Purnell, PE           | Canyon Park Freeway Station                       | Sound Transit                    |
|                                     | City of Covington, Don Vondran, PE               | SE 256th Street/164th Ave SE Improvement Project  | City of Covington                |
| Small Projects and Non-Construction | C G Engineering, Greg Guillen, PE, SE            | Camp Waskowitz Water Tank Repair                  | Highline School District         |
|                                     | HWA GeoSciences, Inc. Ralph Boirum, PE           | 2007 Sidewalk Asset Inventory                     | Seattle DOT                      |

## ASCE Judges' Descriptions and Remarks:

*Escala Condominiums: 94 Ft Deep Excavation* - The Escala Condominiums involved one of the deepest soldier pile and tie back shoring systems in the City of Seattle at 94 foot depth. The nine-story underground parking structure and high rise tower was built after the geotechnical engineers, Golder Associates, came up with an automated and remotely monitored instrumentation system that allowed monitoring the shoring system directly from the firm's offices in real time. Situated off of 4th Avenue and Virginia Street the Construction faced many obstacles of utility conflicts and underpinning of surrounding historic buildings using 270 ksi steel tendons which reduced costs and steel quantities on the project.

*Alternate Outfall Replacement Project* - The designer, Hart Crowser, worked closely with the owner, City of Bellingham, to develop a replacement strategy for the City's existing 30-inch diameter Alternate Outfall, which serves as a second outfall for the Post Point Wastewater Treatment Plant when peak wet weather flows exceed the capacity of the 60-inch Primary Outfall. The existing Alternate Outfall was undersized, had numerous joint failures and the terminus was buried in sediment.

The marine alignment of the new 54-inch Alternate Outfall was shifted and an extensive eelgrass mitigation plan was developed to minimize ecological impacts to a pristine eelgrass bed that had to be crossed by the replacement outfall.

See **Outstanding Achievement** on page 11

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### **Outstanding Achievement** (continued from page 10)

The design team worked closely with the Washington Department of Fish and Wildlife and the Washington Department of Natural Resources to implement several innovative procedures to aid in eelgrass recovery. Mitigation included a new eelgrass removal method and the first large scale use on the west coast of a unique transplanting procedure that incorporated public outreach through the use of volunteers in its execution. Also the team worked with BNSF railroad to develop a boring methodology and reduce crossing construction costs.

*Bremerton Floating Wave Attenuator* – The 1,440 foot-long floating concrete wave attenuator was installed to expand and upgrade the Port of Bremerton's Marina in downtown Bremerton. The 24.5-foot wide solid floating structure not only attenuates wind waves and ferry wakes but also serves as a public park, which allows non-boaters convenient and safe access to the waters of Sinclair Inlet. The design (by Art Anderson Associates) and construction of the floating wave attenuator utilized several unique elements: 1. State of the art analysis to determine attenuation performance and hydrodynamic behavior of the floating structure. 2. The use of cast-in-place ready-mixed concrete to fabricate the pontoon hull sections. The concrete mix design utilized a blend of lightweight fine aggregate imported from Colorado and normal fine aggregate. 3. Post-tensioning of the 12 individual concrete pontoon sections to create a single 1,440 long floating structure that is moored with 50 separate mooring lines. Reid Middleton provided construction support engineering services.

*Naval Hospital Bremerton Seismic Upgrades Program* – Retrofitting existing buildings is becoming more a part of our practice as we see land for new development become more costly and more challenging to build on. Reid Middleton's solution for the upgrade was not visible when completed and provided the means to incorporate a new entry that adds a significant visual impact to the building. The reuse of the structure was viewed as a significant point for this project.

*SR 509 Marine View Dr. Bridge* – This project accomplished a critical restoration element and did it in a way that represents a very low impact to the environment. The teamwork between the builder and the designers, INCA, Inc. were essential for this project's success. This project was not seen as having implemented innovative structural design elements as much as it focused on process and sequence during design and a well detailed execution by the contractor. The teamwork aspect on this project combined with the economic and environmental impacts were viewed as noteworthy and could be used as an example of what is possible when all parties work together.

*SE 256th Street/164th Ave SE Improvement Project* – This project was chosen due first to its innovative feature (providing a roundabout instead of a signal). The project also contributed to public welfare and safety by the installation of a roundabout, which will reduce accidents and injuries and providing safe crossings for high-school students. Aesthetics also played a major role in this project. The project improved the existing rural 2-lane roadway character by undergrounding utilities and providing landscaping around the island, median and sidewalk.

*Camp Waskowitz Water Tank Repair*– A new reinforced concrete tank was constructed inside of the existing redwood water tank. This option, designed by C G Engineering for the Highline School District allows for reuse of the existing tank minimizing impact on the surrounding environment and eliminating environmental permitting associated with developing a new site. In addition, reusing the existing tank retains an attractive infrastructure element in a historic setting/context.

*2007 Sidewalk Asset Inventory*– In preparing a master plan approach to current and future pedestrian needs, the City of Seattle had HWA GeoSciences, Inc. (with Pertteet Inc as subconsultant) create a comprehensive inventory of existing sidewalks. The inventory data collection combined GPS and GIS data base and mapping software on handheld computers with digital cameras and Bluetooth wireless data transmission. This is a nice blend of electronic media to create inventory which will be very useful in characterizing risk and needs.

*Canyon Park Freeway Station* – This Sound Transit project submitted by INCA Engineers, Inc. was chosen due to its effective use of materials and aesthetics. The project used simple materials such as concrete, steel, glass and paints, and constructed a facility that is pleasing to the eye with relatively low construction costs. The project also received high scores in design due to its unique nature of a pedestrian overpass over a freeway. The design used simple lines and curves on the piers and canopy to simplify construction and provide visual interest.

### **Awards Committee (Section Immediate Past President and Past Presidents)**

- Cliff Williams, P.E., Development Management Engineers, Chair
- Susan Gardner, P.E., CHS Engineers
- Ray Walton, PhD, P.E., WEST Consultants
- Ron Borowski, P.E., City of Seattle
- Ron Leimkuhler, P.E., KPFF



The ASCE Committee on Academic Prerequisites for Professional Practice (CAP<sup>3</sup>) has continued its efforts to raise the educational requirements for the future practice of civil engineering at the professional level (licensure). For more than a decade, ASCE has been refining our proposed program to "raise the bar" in engineering education. The National Society of Professional Engineers (NSPE), the National Council of Examiners for Engineering & Surveying (NCEES), and the National Academy of Engineering (NAE) have joined in this advocacy. A summary of some activities since our last newsletter:

## Second Edition of the Body of Knowledge (BOK)

ASCE released the Civil Engineering Body of Knowledge for the 21st Century, Second Edition (abbreviated as "BOK") on February 19, 2008 at a special event at the National Academy of Engineering (NAE). A comprehensive report of the NAE event and the new BOK is included in the March 2008 edition of the ASCE News. A copy of the BOK has been mailed to every civil engineering and technology department in the nation – as well as to every dean of engineering. We invite you to download a free copy of the Second Edition as a pdf file from [www.asce.org/raisethebar](http://www.asce.org/raisethebar). You may purchase a bound copy of the complete report from [www.asce.org/bookstore/book.cfm?book=8241](http://www.asce.org/bookstore/book.cfm?book=8241).

A frequent question is "What is the BOK?" The BOK is defined in ASCE Policy 465 as "the necessary depth and breadth of knowledge, skills, and attitudes required of an individual entering the practice of civil engineering at the professional level in the 21st century." For civil engineers, entry into professional practice normally equates to becoming licensed. The BOK uses outcomes -- and it is designed to be a dynamic, comprehensive, aspiration and future-focused document. Each outcome is associated with a level of achievement. The BOK is fulfilled through a combination of formal education and practical experience.

Another question is "How is the BOK related to accreditation criteria and licensure law/rules?" From ASCE's perspective, it is understood that the BOK represents a strategic direction for the profession. Under today's accreditation and regulatory processes/procedures, some of the elements of the BOK may not be translated into accreditation criteria and licensing requirements in the near term. To say it another way, the BOK describes the "gold standard" for the aspiring civil engineering professional. Since input into the accreditation and licensing processes comes from a considerable number of stakeholders beyond just ASCE, it is unlikely that these processes will reflect all aspects of ASCE's BOK. ASCE is optimistic that the accreditation and licensing processes could change over time to adopt a more BOK-centric approach. As this occurs, a greater proportion of the BOK could be reflected in the accreditation and licensure requirements.

## Educational Fulfillment of the BOK

The BOK Educational Fulfillment (BOKEdFC) was formed in early 2008. The committee has had two conference calls and a face-to-face meeting. Ken Fridley (Chair) and Jeff Evans (Vice

Chair) are leading the committee. There are 11 full members and 31 corresponding members. If you are interested in becoming a corresponding member, please contact Ken Fridley at [kfridley@eng.ua.edu](mailto:kfridley@eng.ua.edu).

## Accreditation Criteria and Removal of the Prohibition on Dual Level Accreditation

The Accreditation Committee of CAP<sup>3</sup> prepared a new version of the civil engineering program criteria and masters level general criteria along with supporting commentary. These criteria and associated commentary are available at [www.asce.org/raisethebar](http://www.asce.org/raisethebar). These new criteria were unanimously passed by the ABET Board of Directors (on its second and final reading) on November 3, 2007. These criteria are effective for visits scheduled for the 2008-2009 accreditation cycle of ABET.

A dedicated group of ASCE accreditation champions, led by Phil Borrowman, Rich Anderson, and Ernie Smerdon, carefully executed a well thought-out plan on how to get ABET to remove its **prohibition on dual level accreditation of engineering programs**. The ban kept engineering programs in a given discipline at the same university from being accredited at both the baccalaureate and the master's level. With the help of ASCE's top leadership, ASCE's ABET Board appointees, members of the committees of CAP<sup>3</sup> and the Educational Activities Department of ASCE, and numerous partners external to ASCE; the effort to remove the prohibition was successful. In a significant positive development for ASCE's "raise the bar" initiative, the ABET Board of Directors removed the prohibition on March 29th by a vote of 28-12 (with two abstentions). The ABET Board of Directors and the ABET leadership are to be congratulated on their historic and future-focused decision.

What does the lifting of this prohibition mean to our long-term effort to implement the Body of Knowledge and ASCE Policy 465? It opens up multiple practical paths to the fulfillment and validation of the civil engineering Body of Knowledge. And, within the next decade, ASCE hopes that more universities (by their own choice) will have ABET-accredited practice-oriented master's degree that better prepare the engineering practitioners and leaders of tomorrow. For more on dual-level accreditation see [www.abet.org/dual.shtml](http://www.abet.org/dual.shtml) and/or [www.asce.org/raisethebar](http://www.asce.org/raisethebar).

## Licensure

In late 2007, the National Council of Examiners for Engineering & Surveying (NCEES) formed the Bachelor's +30 Task Force with the a primary goal of developing definitions for **approved credits** and **approved course providers** for inclusion in the NCEES Model Rules. Given the complexity of the assignment, it is anticipated that the Task Force will work on this issue for at least two years. For up-to-date information about this Task Force, please see [www.ncees.org/licensure/licensure\\_exchange/](http://www.ncees.org/licensure/licensure_exchange/). Questions, Comments, or Suggestions Please contact Jeff Russell ([russell@engr.wisc.edu](mailto:russell@engr.wisc.edu)) or Tom Lenox ([tlenox@asce.org](mailto:tlenox@asce.org)).



# *Engineers' Day Out*

Presented by Western Washington ASME



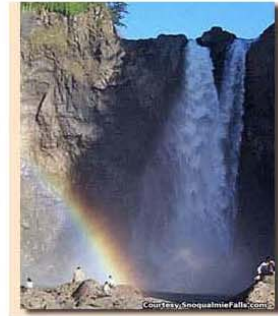
Join your fellow engineers, family and friends from around the Puget Sound for an afternoon of fun in the sun!

**Saturday, June 14<sup>th</sup>, 2008**

**11:00AM – 12:30PM**

## **Tour the PSE Hydroelectric Plant at Snoqualmie Falls**

Originally built in 1898-1899 by the Puget Sound Power & Light Company, the hydroelectric generating plant at the falls has remained in operation for over a century. By blasting the face of the falls and excavating an underground cavern, the utility company channeled water through pipes to turbines at the base of the falls. Space is limited, so sign up early!



**12:30PM – 2:30PM**

## **BBQ at Centennial Park in the City of Snoqualmie**

Enjoy a hot dog, hamburger, or gardenburger at Centennial Park, and bring a side, a dessert, or a non-alcoholic beverage to share. Free to WW ASME members and families—all others \$5.

**12:30PM – 5:00PM**

## **Fun at the Park**

Centennial Park has three softball fields, a soccer/football field, play equipment, picnic tables, and a trail. Join others for frisbee, soccer, volleyball, football, badminton, and anything else you want to do! Some equipment will be provided, but feel free to bring your own!

**1:30, 2:30, 3:30, 4:30PM**

## **Tours of the Northwest Rail Museum**



The Northwest Rail Museum is in the Snoqualmie Depot, which was constructed in 1890 by the Seattle, Lake Shore and Eastern Railway. It was used by successor companies Seattle and International Railroad, Northern Pacific Railway, and the Burlington Northern Railroad. It has now been restored to its turn of the century grandeur and is once again an operating train station. Tours are free and last approximately ½ hour.

**1:31PM, 3:01PM, 3:46 PM\* Train Rides from the Snoqualmie Depot**

Board the train and travel to North Bend and Snoqualmie Falls. The round trip takes about an hour, and the cost is \$10/Adult, \$7/Child (2-12 years). In honor of Father's Day, Dad rides free with the purchase of a children's ticket. \*The 3:46 train only goes to the Falls.

**To reserve your spot, email Kalan Guiley at [guileyk@asme.org](mailto:guileyk@asme.org).**

**Hope to see you there!**

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## Employment Notices

To post an employment notice in the newsletter and on the section's web site, please contact the editor in advance of the monthly deadline. Rates for advertising are shown on page 2.

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**HDR, Inc.**  
**Ports and Marine Engineering Manager**  
**Bellevue, WA 98015**

HDR, an employee-owned architectural, engineering, planning & consulting firm, excels at helping clients manage complex projects & make sound decisions..

**Description:**

Manage marine transportation related projects for onshore/offshore maritime activities including but not limited to: siting & location of terminals/marine facilities including deep water ports; marine traffic & navigation safety evaluations; ports & waterways development & improvement; & assessment of environmental & operational impacts. Broad working knowledge of & experience with commercial maritime activities & port/marine facility operations is necessary. Familiarity with USCG & USACE regulatory authorities, programs & practices is crucial; familiarity with roles of USFWS, MARAD, MMS, EPA, FERC & other Federal & State agencies is highly desirable. Familiarity with environmental statutes & authorities related to the marine environment is desirable. Typically requires a bachelors degree or higher in a field related to marine transportation or engineering & 6+ years of related experience.

**Experience Required:**

- BS degree in a field related to marine transportation or engineering; Master's degree preferred.
- Registration required.
- 15+ years of related experience.
- Highly developed written & verbal communication skills are necessary for working with Federal, State & local governments, Port Authorities, & port industry personnel & the public as well as clients & project technical & management personnel from all of the fields addressed above.
- Demonstrated team building skills are necessary for effective coordination of diverse project teams.

**Apply Online:** <http://www.gojobs.com/seeker/aoframeset.asp?JobNum=1071686&JBID=1436>

Employer JobCode: 061943

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| NEW SEAL DESIGN for all WA Engineers<br>effective July 1, 2008                      |                                                                                                                                                                                                                                                                                                       |
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|  | <p><b>SAVE 15%</b><br/>on WA Prof. Engineer Seals<br/><a href="http://www.USAcustom.com/seal">www.USAcustom.com/seal</a></p> <ul style="list-style-type: none"><li>• FREE Shipping for orders over \$35</li><li>• 1-day production turnaround</li><li>• Leading mfg of seals for all states</li></ul> |
| Roanoke Stamp & Seal • Roanoke VA                                                   |                                                                                                                                                                                                                                                                                                       |



## Calendar of Upcoming Events:

### June 6th, 4pm

YMF: Fremont Briefcase Relay

Location: Fremont Neighborhood

Contact: James Le, [james@kpg.com](mailto:james@kpg.com)

### June 7th, 11:30am – 5:30pm

YMF: Seattle Works Day

Location: TBD

Contact: Sam Swartz, [Swartz@jacobssf.com](mailto:Swartz@jacobssf.com)

### June 18th, Time TBD

YMF: Summer BBQ & Elections

Location: Golden Gardens

Contact: Melissa Wu, [Melissa.Wu@CH2M.com](mailto:Melissa.Wu@CH2M.com)

### June 11, 5:30pm

Seattle Section Meeting

Location: McCormick & Schmick's Harborside Restaurant, 1200 Westlake Avenue North, Seattle

Cost: \$25 per person (\$30 for late reservations)

### July 11th, 8am

YMF: 4th Annual ASCE Seattle Section YMF Golf Tournament

Location: Willows Run Golf Course

Contact: Eric Herzstein, [Eric.Herzstein@parsons.com](mailto:Eric.Herzstein@parsons.com)

### June 14, 8:30am

History & Heritage Committee Meeting

**Different Location:** Grand Central Bakery Pioneer Square Location, 214 1st Avenue South, Seattle, WA 98104

Contact: Cindy Hirsch, (206) 438-2150 or

[Cindy\\_Hirsch@urscorp.com](mailto:Cindy_Hirsch@urscorp.com)

### September 10 – 12 (Save the Date!)

Urban Waterfront Revitalization Conference

Contact: [www.uwrconference.com](http://www.uwrconference.com).

## TIME VALUE

June 2008 Newsletter  
Volume 43, Number 10

Attn: ASCE Newsletter Editor  
3728 Beach Drive SW, #4  
Seattle, WA 98116

SEATTLE SECTION  
AMERICAN SOCIETY  
OF CIVIL ENGINEERS

