



SEATTLE SECTION NEWSLETTER

May 2008
Volume 43 No. 9

Section Officers

October 1, 2007 – September 30, 2008

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BOEING BRANCH OFFICERS

Kenneth DeBord, *President* 425-237-4294

WEBMASTER

Lisa Martinez seattleasce@yahoo.com

ASCE Seattle Section Meeting

Wednesday, May 14, 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: Rosemary Seared True Cod with Northwest Berry Sauce -or-
Vegetable Stir Fry with Sticky Rice. Dessert: Crème Brulee.

5:45 Engineer's Ring Ceremony (Cost \$15)

6:15 Socialize

6:45 Dinner

7:40 Student Presentations

8:50 End

Please make your reservations by

NOON Monday, May 12, 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

Order of the Engineer Ceremony and Annual Student Presentations

This special dinner program will be the annual student project presentations. Teams of upper division students attending the University of Washington and Seattle University civil engineering programs have been working on engineering projects throughout the year. Prior to our dinner meeting, each school has a competition to select the best presentation. The two finalists will present their project to the Seattle Section. This is a great opportunity to see the new challenges our present day students are taking on and to show support for the students as they embark on their career.

Immediately prior to the section meeting, the Order of the Engineer ring ceremony for graduating and practicing engineers will also be held. The purpose is to stimulate formal public recognition by engineers in the United States of two basic principles. These principles are that (1) the primary purpose of engineering is service to the public, and (2) all members of the engineering profession share a common bond. For more information about the Order of the Engineer, see the article on page 11..

The deadline for the
June 2008 issue is
5:00 p.m.
FRIDAY, May 16, 2008
No exceptions.

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#### CHANGE OF ADDRESS:

All change of address information (including your mailing label if applicable) should be sent **DIRECTLY** to: 1801 Alexander Bell Drive, Reston, VA 20191-4400 **AND** to the newsletter editor shown above.

**AMERICAN SOCIETY OF  
CIVIL ENGINEERS, SEATTLE SECTION**  
<http://www.seattleasce.org>

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First 75 words free  
75 cents per each additional word

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seattleASCEnews@gmail.com  
for pricing and format requirements.

## President's Column

By Roger S. Mustain, PE  
President, Kitsap Branch, ASCE

I had the pleasure of attending the Engineers Without Borders USA International Conference at the University of Washington in March. It was an inspirational forum focused on EWB's theme of "Building a better world...one community at a time." I was especially encouraged to see exuberance tempered by an acknowledgement of the practical difficulties to be overcome in building a better world. I may be naturally conservative (as befits an engineer...?) but in my experience, humanitarian volunteer work is more likely to be effective if it's undertaken with a realistic appreciation of the challenges involved.

An important theme that resonated throughout the presentations and workshops was the need to engineer affordable and sustainable solutions based on the communities' needs. A number of presenters emphasized that their team had been surprised by how long it had taken them to develop a real understanding of "their" community, but all emphasized that the time and effort invested were crucial to a successful outcome. The importance of having an in-country partner, either a community advocate or on-site Non-Governmental Organization, was also emphasized. Indeed, one of my favorite speakers was a community engineer from South America who gave his perspective on serving as the go-between for several projects.

Affordability was also stressed, particularly in the context of empowering the community to implement solutions using their own resources, rather than simply giving them a charitable donation. This can require some creative thinking, incorporating locally available materials and trade skills into a workable design, but it's necessary if the community is to take ownership of the project. As an added benefit, designs based on local materials and workmanship allow solutions to be replicated in nearby communities, provide employment, and stimulate the local economy.

Sustainability proved to be somewhat like art - hard to define, but easy to recognize. The discussion focused primarily on selecting appropriate technologies that the community can, with some training and assistance at first, operate and maintain over the long haul. I was impressed and relieved at the emphasis placed on designing for the end-user. Having lived and worked overseas a number of years, I've seen too many examples of well-meaning organizations pouring time and money into projects that are unnecessarily complex and neither affordable nor maintainable once the donor leaves. I think it's sometimes difficult for Americans to realize that, in much of the developing world, simpler is better. Backhoes may dig quickly but they (and their fuel) are expensive and put a lot of people wielding shovels out of work. Likewise, automated irrigation control systems may theoretically improve efficiency, but practically speaking it might be better to employ people by opening and closing sluice gates manually...

Although many EWB projects, such as water treatment and distribution, sanitation, and transportation have a strong Civil Engineering orientation, EWB emphasizes an interdisciplinary approach. For example, mechanical engineers with EWB designed a better wood burning stove for communities in Bolivia. Electrical engineers have designed solar power supplies for water purification systems and lighting in Burkina Faso. And epidemiologists and Public Health professionals are working to quantify the health impacts of engineering interventions, potentially a powerful tool in raising awareness and resources for further efforts.

See *President's Column* on page 3

*President's Column (continued from page 2)*

A particularly interesting feature of the conference for me was the sheer number of organizations attending, the variety of work they're undertaking, and the sometimes surprising benefits they confer. A couple I found especially interesting:

- Bridges to Prosperity builds foot bridges in rural areas around the world, improving access to schools, markets, health care, and jobs.
- Save the Rain teaches communities to conserve rain water through roof catchments and improved farming practices. A clean, reliable water supply not only improves health, but it frees women and children from spending hours a day hauling (often unsafe) water from remote sources with the result that children can go to school and women can grow crops for sale.

The conference was terrifically well organized and attended by a number of distinguished individuals. Bill Gates Sr. delivered the keynote address, and I'm pleased to report that our Society's President, David G. Mongan, PE, F.ASCE showed his support for EWB by attending and addressing the conference at Saturday's luncheon.

Especially rewarding for me was the energy and enthusiasm of the college students, who made up the majority of the 750 attendees. Whether presenting their projects, discussing opportunities to make a difference, or asking thoughtful questions during the various sessions, they did the engineering profession proud.

If you're looking for a chance to put your engineering skills and experience to good use, I highly recommend Engineers Without Borders.

Sincerely,

*Roger Mustain, P.E.*

President, Kitsap Branch, ASCE

## Seattle Section Officer Elections! Ballots due May 15

By Cliff Williams, PE Immediate Past President

By now, all Seattle Section members should have received an e-mail ballot or a paper ballot of candidates running for open positions on the Section Board. Section members that have not received either ballot may contact Section Secretary Marc Schulte by phone at (206) 728-9655 or via email at [Seattle.ASCE.Election@gmail.com](mailto:Seattle.ASCE.Election@gmail.com) to request a replacement ballot.

We are very fortunate to have highly qualified and experienced group of candidates in this year's elections. This year's candidate slate includes:

- **President:** Ann Bryant, PE
- **President-Elect:** Ronald Bard, PE
- **Treasurer:** Garth Merrill, PE
- **Directors:**
  - Erin Fletcher, PE
  - Michael Harney, PE
  - Richard Lowthian, PE

Bios of all the candidates listing their ASCE and professional experience are provided with the Section ballot. All of the candidates would make excellent officers and the Section will be in good hands next year!

**Please cast your ballot by the 15th of May** and the results of the election will be announced in the June newsletter and also at the June 13th Section Meeting. Please remember to vote.

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

by James Le

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 in on 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.



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# ASCE Seattle Section Executive Board Meeting Minutes

## For April 9, 2008

### ATTENDANCE

#### Board Members

Present: Jack Bjork, Ann Bryant, Perry Cole, Arthur Fleming, Jeanne Justice, Doug Knapp, Garth Merrill, Marc Schulte, Cliff Williams.

Absent With Notice: (None)

Quorum: YES

#### Other Members Present

Paul Grant, Josh Shippy, Randy Sleight

#### Visitors

None.

### CALL TO ORDER

Section President-Elect Ann Bryant called meeting to order at 4:35 p.m.

Board unanimously approved March 12, 2008 meeting minutes.

### PROCEEDINGS

#### Regular Business

##### Treasurer's Report

The Board discussed cost sharing for recent joint meetings with structures and geotechnical groups. Income and expenses appear to be on track per budget.

NO ACTION ITEMS

##### Standing Committee Reports

Standing Committee report posted to eRoom earlier this week.

NO ACTION ITEMS

##### *Legislative Committee*

Summary report of last years' legislative developments in Olympia is posted in eRoom.

##### *Membership Committee*

Ann sent email to all new members from January, February, and March. Three new members will be attending tonight's meeting.

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

Paul Grant reported that PSEC is considering an increase in dues, which ASCE should be aware for budgeting next year. Participating professional societies like ASCE contribute PSEC dues, which are assessed on a sliding scale based on the number of ASCE members.

PSEC will be sponsoring an inter-society workshop regarding organizational aspects of professional societies in June.

#### Branch Reports and Action Items

Branch report was posted to eRoom earlier this week.

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.

NO ACTION ITEMS

#### Old Business

NO ACTION ITEMS

#### Elections, Constitution and Bylaws

Cliff Williams and the nominating committee have finalized the slate of candidates for next year's officers and directors, and will be soliciting nominations from floor tonight. Cliff will send final slate, with biographical sketches, to Secretary Marc Schulte to prepare the ballot. Ballot will be distributed with May newsletter, but we will also be offering an on-line option for submitting ballots.

Marc received changes to duties and procedures manual from Tom Schnetzer. On further research, constitution and bylaw changes will need to be reviewed by ASCE National's Committee Geographic Units (CGU) and will *not* be able to be reviewed and approved in time for inclusion on the May ballot.

#### Web Site

We are moving ahead with the web site re-design. Programming has begun; expect beta version of new web page in mid-May.

#### New Business

##### Section Dues

*Background:* ASCE National has sent a memo to the Seattle Section requesting that we confirm the Section dues schedule for 2009. They require a response by May 5th (before the next regularly scheduled Board meeting).

*Motion:* The Seattle Section Board changes the Branch "affiliate member" dues from \$20 to \$30. (Arthur Fleming). 2nd (Perry Cole).

See [April Minutes](#) on page 5

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**April Minutes** (continued from page 4)

*Discussion:* The increase in affiliate member dues will make affiliate member dues consistent throughout the entire Seattle Section. Associate and regular member local section dues will remain the same.

Motion Passed.

*Motion:* The Seattle Section Board changes dues for student members from \$8 to \$0. (Perry Cole) 2nd (Ann Bryant).

*Discussion:* No dues for student members is the policy currently described in the Board's Duties and Procedures Manual, and was generally assumed to be the current Section policy. It is unknown whether ASCE National is actually collecting \$8 from students and including this in the Section's dues allotment. Therefore, this would have an unknown effect on the Section's budget. Question called.

Motion Failed.

*Motion:* The Seattle Section will reconsider the question of eliminating student dues after analyzing the proposed change's effect on the Section, and take a vote via email before May 5th. (Garth Merrill). 2nd (Perry Cole).

Motion Passed.

### **Seattle University Student Fund Request**

*Background:* Seattle University students are finalists in the Parsons Brinkerhoff Team Design competition at the EWRI conference in Hawaii next month. They have requested \$1000 for travel to the competition.

*Motion:* Board to approve granting \$1000 to Seattle University from the Student Activity fund for the purposes of travel to the Parsons Brinkerhoff Team Design Competition in Hawaii in May. (Perry Cole). 2nd (Arthur Fleming).

*Discussion:* SU has not requested their regular annual allotment or any additional amounts from the Section yet this year. Garth Merrill reported that the student activities account should have enough money to cover the expense.

Motion Passed.

### **Treasurer's Term of Office**

*Background:* In 2006, the Board voted to modify the Treasurer's office to a three-year term; however, the constitution and bylaws were not modified and voted upon accordingly. There has been uncertainty whether to list candidates for Treasurer on the 2008 ballot.

*Motion:* The Seattle Section Board affirms the previous Board position to modify the Treasurer's term of office to three-years. (Marc Schulte). 2nd (Garth Merrill).

*Discussion:* Garth had agreed to a three-year term when assuming office, but is willing to run for an additional two-

year term. Garth recommends that a three-year term would be appropriate. Because the bylaws cannot be changed on such short notice, the 2008 ballot will include the Treasurer's position this year for a two-year term. Marc asked for direction from the Board on this issue for advice when the constitution and bylaws are revised in upcoming months.

Motion Passed.

### **R.H. Thomson Award**

*Background:* The scholarship committee has recommended a nominee for the 2008 R.H. Thomson Scholarship.

*Motion:* The Seattle Section Board does *not* ratify the scholarship committee's recommendation for awarding the R.H. Thomson scholarship, because the nominee does not meet the eligibility requirements as stated in the application materials. (Ann Bryant). 2nd (Cliff Williams).

*Discussion:* Unfortunately, it appears that the scholarship committee's 2008 nominee for the R.H. Thomson Scholarship did not graduate from a high school located in the geographic area of the Seattle Section. With scholarship committee chair Randy Sleight, the Board discussed the interpretation of the eligibility requirements especially with regard to the criterion that the scholarship recipient be a graduate of a high school within the Seattle Section's geographic area. Perry Cole stated that he contacted members of the R.H. Thomson Scholarship's founding committee and confirmed that this requirement was a critical intent of the scholarship's founders. In addition to the 2008 nominee, it appears that the 2007 R.H. Thomson Scholarship designee may not have met the high school graduate eligibility criterion either. The Board discussion alternatives for the best method to satisfy the Section's obligation to the R.H. Thomson Scholarship founders' intent, any contractual obligations (actual or implied) to the 2007 R.H. Thomson Scholarship designee, and any offer already implied to a very deserving 2008 scholarship nominee. Question called and several additional motions followed.

Motion Passed.

*Motion:* The Seattle Section Board will remit funds for the 2007 R.H. Thomson Scholarship out of Seattle Section funds. (Jeanne Justice). No Second.

Motion Failed.

*Motion:* The Board will remit funds for the 2007 R.H. Thomson Scholarship out of R.H. Thomson account, as previously planned. (Cliff Williams). 2nd (Arthur Fleming).

Motion Passed.

*Motion:* The Seattle Section Board will grant Mr. Ajay Heitzman a one-time award of \$2000, paid for out of Seattle Sec-

See **April Minutes** on page 6

**April Minutes** (continued from page 5)

tion general funds in lieu of the 2008 R.H. Thomson Scholarship. (Perry Cole). 2nd (Doug Knapp).

Motion Passed.

*Further Discussion:* The Board requests that the scholarship committee re-evaluate the 2008 applicant pool based on the interpretation of residency eligibility rules as discussed at the meeting. Recommend that for next year, the scholarship committee re-word the application material language to clarify the intent of the founding committee that the R.H. Thomson scholarship must be awarded to graduates from high schools located in the Seattle Section's geographic area.

**Announcements for Meeting**

Rebuilding Together. (Arthur)

ASCE Seattle Section floor nominations for officers and director. (Cliff)

**Adjournment**

Meeting adjourned at 6:25 p.m.

Minutes submitted by Secretary, Marc A. Schulte.

**Addendum to April 9, 2008 Minutes**

**Section Dues for Student Members**

*Background:* This addendum is a follow-up to the discussion of student membership dues at the April 9, 2008 Board meeting. The Board completed the discussion and voted using the eRoom forum the week of April 21.

*Motion:* Student members shall be exempt from Seattle Section dues. (Marc Schulte). 2nd (Garth Merrill).

*Discussion:* Jack Bjork did some research and found that the Seattle Section has 272 student members. 21 pay section dues. He also checked the national webpage and National dues for students are \$0.

Motion Passed.

Addendum submitted by Secretary, Marc A. Schulte, April 25, 2008

**Fremont Briefcase Relay  
June 6th**

by James Le

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.

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## Welcome New ASCE Members!

We would like to welcome our 46 new members to the Seattle Section and Kitsap and North Branches during March and April. If you see someone you know, give them a call.

| Name (Last, First)     |             | Occupation               | Employer / School                    |
|------------------------|-------------|--------------------------|--------------------------------------|
| <b>Seattle Section</b> |             |                          |                                      |
| Ankrum                 | Pamela      | Director of Engineering  | Clear Water Compliance Services, Inc |
| Arvan                  | Hossein     | Student                  |                                      |
| Bollen                 | Brian       | Senior Engineer          | BERGER/ ABAM                         |
| Chua                   | Douglas     | Student                  | University of Washington             |
| Das                    | Girindra    | Associate Tech Fe        | Boeing Company                       |
| Debroeck               | Edward      | Student                  | Seattle University                   |
| Dong                   | Emily       | Student                  | University of Washington             |
| Dubie                  | Melaku      | Student                  | University of Washington             |
| Duggan                 | Daniel      | Student                  |                                      |
| Eisma                  | Sabine      | Student                  |                                      |
| Frol                   | Kavik       | Student                  | Seattle University                   |
| Goldsmith              | Kyle        | Student                  | University of Washington             |
| Hafzallah              | Hani        | Student                  | University of Washington             |
| Harting                | Hubert      | Owner                    | Harting Consulting Engineers         |
| Hillegas               | Sara        | Water Resources Engineer | Golder Associates Inc                |
| Horner-Devine          | Alexander   | Assistant Professor      | University of Washington             |
| Hughes                 | Ben         | Student                  |                                      |
| Lewing                 | Jake        | Engineer                 | BERGER/ ABAM Engineers               |
| Liu                    | Tsz Fung    | Student                  |                                      |
| Low                    | Natalie     | Student                  |                                      |
| Lowry                  | Daniel      | Student                  | University of Washington             |
| Mai                    | Thong       | Engineer                 | Parsons                              |
| Moorleghe              | Mark        | Associate                | DCI Engineers                        |
| Nimse                  | Parag       | Structural Engineer      | Berger/ ABAM Engineers               |
| Novakovic              | Slobodan    | District Construction    | PCL Construction Services, Inc.      |
| Park                   | Chirstopher | Student                  | University of Washington             |
| Perkizas               | Jason       | Student                  | University of Washington             |
| Peterson               | Brett       | Student                  | University of Washington             |
| Radic                  | Milan       | Student                  |                                      |
| Ramey                  | Micah       | Student                  | University of Washington             |
| Reid                   | Donald      | Student                  |                                      |
| Saarenas               | Dan         | Student                  |                                      |
| Shaffer                | Kevin       | Student                  |                                      |
| Wandschneider          | Tyler       | Engineer II              | Berger/ ABAM Engineers               |
| Weber                  | Patrick     | Engineer II              | Brown Caldwell                       |
| Wong                   | Gavin       | Project Manager          |                                      |
| Wong                   | Chun Kit    | Student                  | DMJM & Harris                        |
| Wood                   | Kirsten     | Student                  | University of Washington             |
| Xu                     | Jifeng      | Sr. Structural Analyst   | Boeing                               |
| Yesuf                  | Eyob        | Student                  | University of Washington             |
| <b>North Branch</b>    |             |                          |                                      |
| Doherty                | Sean        | Civil Engineer/EIT       | CH2M Hill                            |
| Toch                   | Susan       | Engineer                 |                                      |
| Valdez                 | Juan        | Student                  |                                      |
| <b>Kitsap Branch</b>   |             |                          |                                      |
| Kunish                 | Kevin       | Student                  |                                      |
| Mac Learnsberry        | Matthew     | CE                       |                                      |
| Starks                 | Hugh        | Engineer                 | Boeing Company (G)                   |

## ASCE Skagit Tour on May 16, 2008

by Phil Cohen, P.E., P.H.G.

Come join fellow members of ASCE for a full day tour of Seattle City Light's Skagit River Hydroelectric Project set in the gateway to the North Cascades National Park. Enjoy incredible alpine scenery while taking in a boat ride, hot lunch, and tours of the power generating facilities. Best of all, you can enjoy the company of other ASCE members while you travel and sightsee on a chartered bus. ASCE North Branch and Seattle Section will be hosting this event on Friday, May 16, 2008 and are offering it to our membership for \$25.00 – a fraction of the actual cost!

The all-day tour will begin in the morning with boarding the bus at the Northgate Park-n-Ride (105th & I-5). A second boarding of the bus by North Branch members will occur at Sedro-Woolley at the Food Pavilion parking lot. From there, the bus will travel up the scenic Skagit River for 40 miles to the town of Newhalem, home of the Seattle City Light's Skagit Hydroelectric facilities. Starting at around 11 am, tours will be given of the powerhouse area, dam, and surrounding facilities. At noon, we'll board the bus for a short ride to the ranch style cookhouse for a hot lunch and then return an hour later for a 45-minute boat ride on Diablo Lake. Afterwards, there will be additional tours of the area, including a chance to go to the North Cascades National Park Visitor's Center. The bus will leave at 3:30 p.m. for a return to Sedro-Woolley by 5 p.m. and to Seattle –Northgate by 7 pm. (Schedule also shown below)

Due to the limited capacity of the City Light tour, **only 50 seats are available for reservations**. Twenty-five of these will be allotted to the Seattle Section and Kitsap Branch and the other twenty-five to North Branch members. Reservations will be open to ASCE members only until May 1. After that time, non-members may also sign-up.

Please send your \$25.00 check made out to "ASCE North Branch" to:

Jim Perry c/o Skagit Surveyors and Engineers  
806 Metcalf Street  
Sedro-Woolley, WA 98284

Please include your contact information and your ASCE member number. Also indicate if you would like a vegetarian hot lunch at the cookhouse. For a description of the lunch served, see go to the [www.skagittours.com](http://www.skagittours.com) website.



*Diablo Lake.* (Source: Seattle City Light, <http://www.seattle.gov/light/tours/Skagit/>)

### SCHEDULE

(may vary by half hour except on departure time):

- 8:00 am** – Bus departs Northgate Park-n-Ride from South Station for Sedro-Woolley
- 9:45 am** – Bus picks up North Branch members at the Sedro-Woolley Food Pavilion Parking Lot (530 Crossroads Square, Sedro-Woolley, 98284)
- 11:00 am** – Arrival at Diablo Dam Visitor's Center and join tour of dam & powerhouse
- 12:00 pm** – Lunch
- 1:15 pm** – Boat excursion on Diablo Lake
- 2:30 pm** – Continuation of tour
- 3:30 pm** – visit to National Park Service Headquarters
- 4:30 pm** – depart on return trip home
- 5:00 pm** – arrival in Sedro-Woolley Food Pavilion parking lot
- 7:00 pm** – arrival at North Gate Park and Ride

### Questions?

For specific questions please contact:

Phil Cohen at [pcohen@fidalgo.net](mailto:pcohen@fidalgo.net) or call (360) 240 5546.

Also look online at the following Websites of Interest for general tour information.

Websites of Interest:

Skagit Tours – [www.skagittours.com](http://www.skagittours.com) - see Diablo Dam Good Dinner Tour and the Diablo Lake adventure for a description of activity.

National Park Service – N Cascades Nat'l Park  
<http://www.nps.gov/noca/>

## ASCE Seattle Section 2007 Local Outstanding Civil Engineering Achievement Awards Submittals

By Cliff Williams, PE Chair, Awards Committee

Congratulations to all those who submitted entries for the 2007 Local Outstanding Civil Engineering Achievement Awards. This was the largest number of entries received with projects submitted in all categories. They illustrate the engineering challenges the Seattle Section members are addressing within our region. Thank you to all the members that participated in the competition and to the 23 members that helped in judging.

Awards will be presented at the June 12<sup>th</sup>, 2008 Section Dinner meeting. More information on the submittals will be provided in the June newsletter.

### Qualified Entries for the 2007 Outstanding Civil Engineering Achievement Awards

| Engineer                                  | Firm                      | Project                                                                  | Owner                            |
|-------------------------------------------|---------------------------|--------------------------------------------------------------------------|----------------------------------|
| Richard Luark                             | Golder Associates         | Escala Condominiums: 94 Ft Deep Excavation                               | Lexas Companies, LLC             |
| Brian R. Beaman PE                        | Icicle Creek Engineers    | Camp Creek Landslide Stabilization Project                               | Port Blakely Communities         |
| Arthur Fleming                            | Hart Crowser              | Alternate Outfall Replacement Project                                    | Public Works, City of Bellingham |
| Woosuk "Willy" Ahn, PE, PhD               | Reid Middleton            | Bremerton Floating Wave Attenuator                                       | Port of Bremerton                |
| Margaret Curtis, PE                       | Wilson Survey/Engineering | Geneva Neighborhood Stormwater Retrofits and Cable Street Reconstruction | Whatcom County Public Works      |
| Cheyenne Covington                        | KPG                       | McRedmond Regional Water Quality Facility and Park Improvements          | City of Redmond                  |
| Danielle Johnston, PE                     | David Evans & Assoc.      | Lincoln Creek Transportation Center Creek Restoration Project            | Western Washington University    |
| Richard Luark                             | Golder Associates         | Escala Condominiums: 94 Ft Deep Excavation                               | Lexas Companies, LLC             |
| Dave Swanson, PE, SE                      | Reid Middleton            | Naval Hospital Bremerton Seismic Upgrades Program                        | Naval Hospital, Bremerton        |
| Dale Lydin, PE                            | INCA                      | SR 509 Marine View Dr. Bridge                                            | City of Des Moines <i>et al</i>  |
| Daniel H. Dixon                           | HNTB Corporation          | I-405 Corridor Program, Kirkland Nickel Stage I                          | WSDOT                            |
| Chuck Purnell, PE                         | INCA Engineers, Inc.      | Canyon Park Freeway Station                                              | Sound Transit                    |
| Don Vondran, PE                           | City of Covington         | SE 256th Street/164th Ave SE Improvement Project                         | City of Covington                |
| Menglou Wang, PE                          | City of Arlington         | North Olympic Avenue Reconstruction Project                              | City of Arlington                |
| Stefanie Fishman, PE and Eric Shimizu, PE | The Transpo Group         | Red-Wood Corridor Study                                                  | City of Redmond                  |
| Greg Guillen, PE, SE                      | C G Engineering           | Camp Waskowitz Water Tank Repair                                         | Highline School District         |
| Ralph Boirum                              | HWA GeoSciences, Inc.     | 2007 Sidewalk Asset Inventory                                            | Seattle DOT                      |
| Chuck Purnell, PE, PMP                    | INCA                      | NE 85th St Channelization Improvements                                   | City of Redmond                  |

## Engineering Assistance Needed on Engineers Without Borders Projects

By Jack Bjork, P.E.

On both national and local levels, ASCE has created a working relationship with Engineers Without Borders-USA (EWB-USA), a volunteer organization which builds small projects in developing countries ([www.ewb-usa.org](http://www.ewb-usa.org)). In fact, ASCE President, David Mongan was on hand at the recent EWB-USA International Conference to announce the partnership. The EWB-USA conference was held March 27-30 at the University of Washington. Over 700 people attended. The conference theme was Sustainable Engineering and Global Health. William Gates Sr., director of the Gates Foundation, was the keynote speaker.

Local EWB officers have told me that they need senior engineers, scientists and health profes-

*"...they need senior engineers, scientists and health professionals to help their members on many of these projects."*

sionals to help their members on many of these projects. EWB members include many younger engineers and students who have limited design and construction experience. There are opportunities to volunteer on projects and to act as EWB mentors for university chapters.

There are about eight EWB chapters in Washington, with one established professional chapter, the Puget Sound Professional Partners ([www.ewb-pugetsound.org](http://www.ewb-pugetsound.org)). Since the Seattle ASCE Section has many senior members, I think it could be a great partnership. The Puget Sound Professional chapter generally meets the third Wednesday of each month at Pyramid Brewery in Seattle (depends on the baseball schedule so check [www.ewb-pugetsound.org](http://www.ewb-pugetsound.org) for updates).

At this time, the Puget Sound Professional Partners Chapter provides you an opportunity to make a real difference in the world using your valuable skills. I have listed several projects below along with a brief description and skills needed. Please contact Christina Avolio (projects chair) at 206-441-9080 to determine the schedule, time commitment and additional details.

### Susudel Ecuador Irrigation Project

A farming community in the highlands of Ecuador has an existing diversion dam and flood irrigation system. They would like to convert to drip irrigation and find additional water sources. Skills in water resource engineering, civil engineering and/or surveying are needed

to be part of the team for a possible implementation trip later this year.

### Liban Zone Ethiopia Water Supply Catchments

Pastoral communities occupy this southern part of Ethiopia where severe drought over the past several years has created a food crisis. There is a significant need to develop surface water catchments for drinking water, livestock watering and irrigation. A team just returned from Ethiopia in April where they established partnerships with Rotary International and professors and students at the University of Addis Ababa. Future assessment and implementation trips are planned. Geotechnical, civil and water quality engineers are needed.

### Lucea Jamaica Biodiesel Development

EWB members teamed with local biodiesel experts, Imperium Renewables, are in the process of developing a prototype biodiesel plant to be constructed at a fire station in Lucea Jamaica. Mechanical, electrical and wastewater process engineers are needed.

### Other Opportunities

There is a need for (1) structural engineering expertise for various chapter projects, (2) quality control and design review, and (3) liaison and collaboration with the University of Washington EWB Chapter who is working on projects in Bolivia, Suriname and San Juan Island USA and at Seattle University's EWB Chapter who are working on projects in Thailand, Nicaragua and Curtis Washington, USA.

## 4th Annual ASCE Seattle Section YMF Golf Tournament

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

Proceeds from the tournament to 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).

## Living Machine Technical Tour and High Ropes Course – May 10

by Stefanie R. Fishman, PE, PTOE

YMF is pleased to present this technical tour and team building activity at Camp Seymour in Gig Harbor. The day will begin with a two-hour high ropes course challenge where participants will work as a team to complete activities.

Following the high ropes course and lunch, the group will be given a guided tour of the Camp's Living Machine® system which addresses wastewater treatment needs. This system essentially eliminated the Camp's potential wastewater impacts to the environmentally sensitive Puget Sound. The Camp Seymour Living Machine® system was designed to achieve advanced quality effluent suitable for re-use for an average flow of 10,000 gallons per day and future plans to expand the system to accommodate up to 14,000 gallons per day. Indoor waste treatment components within a beautiful and inspiring greenhouse allow the Living Machine® system to become an integral part of the educational experience and environmental curriculum at the Camp. More details at <http://www.campseymour.org/LivingMachine.htm>.

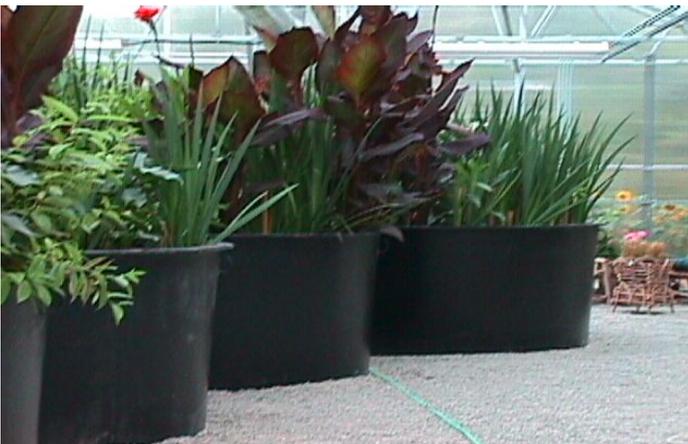
**When:** Saturday, May 10, 2008 – 10:00 AM to approximately 2:00 PM

**Where:** YMCA Camp Seymour  
9725 Cramer Road KPN  
Gig Harbor, WA 98329

**What:** Living Machine Tour and High Ropes Course – Lunch will be provided.

**Cost:** \$15 per person (payable day of event – Checks can be made payable to ASCE-YMF)

Space is limited. RSVP to Stefanie Fishman at [stefanie.fishman@transpogroup.com](mailto:stefanie.fishman@transpogroup.com) or 425-821-3665.



## Engineer's Ring Ceremony

May 14, 2008—5:45 PM

McCormick & Schmick's Harborside Restaurant  
1200 Westlake Ave N, Seattle, WA 98109

Cost: \$15

Followed by the May ASCE Seattle Section Meeting

The Seattle Section of ASCE encourages all of our members to participate in our Ring Ceremony in the spring, as well as any engineers from other disciplines that satisfy the eligibility criteria. The Seattle Section ASCE chartered a new link (or section) of the National Order of the Engineer in September of 2003. The next ceremony will be held just before the May section meeting.



You are encouraged to join the Order of the Engineer if you:

1. Have graduated from an ABET-accredited engineering program, or;
2. Hold a license as a Professional Engineer, or;
3. Are enrolled in an ABET-accredited engineering program and within two academic terms of graduation.

Participants will receive a steel Engineer's Ring and an Obligation certificate at the Ceremony. The registration fee to participate in the Ceremony is \$15. Guests are welcome at the Ceremony, at no cost.

Please RSVP to Garth Merrill with your name, school or company, phone number, email address and ring size (for the fifth finger on your writing hand) no later than May 6, 2008 to order rings in time for the ceremony. Payment will be collected the night of the ceremony. Garth can be reached at [garth.merrill@parsons.com](mailto:garth.merrill@parsons.com) or 206-494-0944. If you need assistance determining your ring size, you may visit your local jeweler or Garth can send you a ring sizer. More information on the Order can be found at [www.order-of-the-engineer.org](http://www.order-of-the-engineer.org).

Following the ring ceremony will be the social "hour" for the Seattle ASCE Section meeting from 6:15 - 6:45pm. Participants and their guests are welcome to stay for the social "hour" free of charge (there will be a no host bar available). We also welcome any participants and their guests to stay and join us for our section meeting. This meeting includes dinner and will cost an additional \$25 per person, or \$10 for students, please make reservations for the dinner by calling (206) 926-0482.



# Engineers' Day Out



Presented by Western Washington ASME

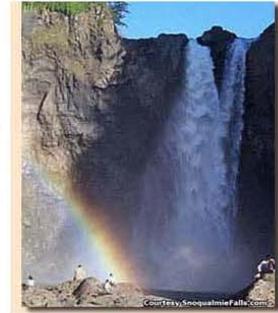
Join your fellow engineers, family and friends from around the Puget Sound for an afternoon of fun in the sun!

**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!**

## 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.



### ASSOCIATE ENGINEER III DEVELOPMENT REVIEW

City of Marysville Community Development Department. This position performs a variety of professional engineering assignments in design, construction, or land development which require the application of standard engineering principles and methods.

**Salary:** \$4,769 – \$6,392 per mth + benefits. Application packets available at Marysville City Hall, 1049 State Avenue, Marysville, WA 98270, or our website at <http://ci.marysville.wa.us>. (360) 363-8083.

**Open until filled.** EOE/AA

The logo for CONTECH Bridge Solutions Inc. features the word "CONTECH" in a bold, blue, sans-serif font with a sunburst graphic behind the "O". Below it, "BRIDGE SOLUTIONS INC." is written in a smaller, blue, sans-serif font.

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Michael Blank, PE  
Region Manager  
CONTECH Bridge Solutions  
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### GEOTECHNICAL ENGINEERS

Hart Crowser, Inc. is a multi-disciplinary earth and environmental consulting firm headquartered in the beautiful Pacific Northwest. Our staff provide a wide range of services to clients in private industry and the public sector. Continued growth in our development services group has created excellent career opportunities for **Geotechnical Engineers** (MS preferred) to join our Seattle and Portland, Oregon offices.

The candidate we are seeking for our **Senior Geotechnical Engineer** (MS) will be a P.E. (preferably WA or OR), with 10+ years experience providing geotechnical design and construction recommendations for a variety of development, industry and port/harbor clients within the Pacific Northwest. As a Senior Geotechnical Engineer, in either our Seattle or Portland office, this individual will be responsible for business development, project management and mentoring of junior staff.

Our **Project to Associate level Geotechnical Engineer** requires a P.E., or to be P.E. eligible, with 5-10 years of progressively responsible geotechnical consulting experience. The responsibilities of this role will primarily involve geotechnical design, report writing, proposal preparation and project management. Experience with environmental projects is highly desirable.

Each of these positions require strong writing, communication and interpersonal skills. We are seeking talented individuals that are enthusiastic about their work, that are able to think independently, yet also work well as project team members. Candidates must be eligible to work in the U.S.

Hart Crowser has a strong commitment to provide an environment that fosters creative thinking and opportunities for professional development. As an employee-owned company, each individual contributes to the success of the firm. Individuals interested in joining a team of highly qualified geotechnical engineers are encouraged to submit their confidential resume to: [staffing@hartcrowser.com](mailto:staffing@hartcrowser.com).

**Hart Crowser, Inc.**

An Affirmative Action/Equal Opportunity Employer

## Calendar of Upcoming Events:

**May 6th, 5:30–7pm**

**YMF Happy Hour**

Location: Casuelita's (Seattle)

Contact: Robin Lee, [RLee@BrwnCald.com](mailto:RLee@BrwnCald.com)

**May 10th, 10am–2pm**

**Living Machine Technical Tour and High Ropes Course**

Location: Gig Harbor, WA

Contact: Stefanie Fishman,

[stefanie.fishman@transpogroup.com](mailto:stefanie.fishman@transpogroup.com)

**May 13th, 5:30–7pm**

**YMF Happy Hour**

Location: Taphouse (Bellevue)

Contact: Jeremy Sather, [jeremyS@paceengrs.com](mailto:jeremyS@paceengrs.com)

**May 14, 5:45pm**

**Engineer's Ring Ceremony**

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

Cost: \$15

**May 14, 6:15pm**

**Seattle Section Meeting**

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

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

**June 7, 8:30am**

**History & Heritage Committee Meeting**

Location: UW More Hall Rm 218

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

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



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(425) 646-8806

## TIME VALUE

May 2008 Newsletter  
Volume 43, Number 9

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

AMERICAN SOCIETY  
OF CIVIL ENGINEERS

SEATTLE SECTION

