



# SEATTLE SECTION NEWSLETTER

June 2007  
Volume 42 No. 10

## Section Officers

October 1, 2006 – September 30, 2007

### SEATTLE SECTION OFFICERS

Cliff Williams, *President* 206-714-7161  
Jack Bjork, *President-Elect & Membership Chair* 206-695-4608  
Tom Schnetzer, *Secretary* 425-450-2576  
Garth Merrill, *Treasurer & Budget Chair* 425-456-8568  
Paul Grant, *Immediate Past President* 206-262-0370  
Eric O'Brien, *Director (2007)* 206-663-8898  
Arthur Fleming, *Director (2008)* 425-329-1152  
Jeanne Justice, *Director (2009)* 206-883-9300  
Tarelle Osborn, *YMF Representative* 425-451-4009

### YMF OFFICERS

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Josh Shippy, *President-Elect* 425-452-1523  
Tarelle Osborn, *Board Rep.* 425-451-4009  
Melissa Wu, *Secretary* 425-233-3306  
Lief Johnson, *Treasurer* 206-292-1200  
Rob Parrish, *UW Liaison* 206-223-0326  
Nimmy Gnanapragasam, *Seattle U Liaison* 206-296-5522

### UW/SEATTLE U CONTACTS

Adam Parast, *UW President*  
adambp@u.washington.edu  
Monica Joyce, *Seattle U President*  
joycem@seattleu.edu

### KITSAP BRANCH OFFICERS

Roger Mustain, *President* 360-697-3713  
David Dinkuhn, *Vice President* 360-850-5319  
Jennifer Mustain, *Past President* 360-697-3713

### NORTH BRANCH OFFICERS

Inga Drechsel, *President* 360-676-6985 ext. 215  
Steven Goodrich, *Secretary/Treasurer* 360-826-4628  
Rhett Winter, *YMF Chairperson* 360-647-7151  
Gina Gobo, *Past President*

### WEBMASTER

Jarl Priest seattleasce@yahoo.com

## ASCE Seattle Section Meeting

Wednesday June 13, 2007

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

**Cost:** \$20 per person (\$22 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 Vegetarian Cheese Tortellini.  
Dessert: Jake's Famous Chocolate Cake

5:30 Socialize

6:00 Dinner

7:15 Program: 2006 Outstanding Project Awards Ceremonies

9:30 End

Please make your reservations by  
**NOON Monday, June 11, by calling 206-926-0482**  
(voice mail system only — please leave a message)  
or by sending an email to:  
[seattleascereservations@gmail.com](mailto:seattleascereservations@gmail.com)

## WE WOULD LIKE TO ENCOURAGE CARPOOLING

If you can provide transportation or if you need a ride,  
please note it with your RSVP message

## 2006 Outstanding Project Awards Ceremonies

The Seattle Section Local Civil Engineering Awards Program will be held at the June 13th Section Dinner Meeting at McCormick and Schmick's. The program will include presenting two Outstanding Project awards and four Honor Awards in four engineering categories.

Please join us and learn why each of these projects was considered an outstanding project. The design engineers will be giving eight-minute presentations on the highlights of each of the six projects. For those being honored, this is a great opportunity to share in the success of your design with your family, friends, design team and clients. Come out and show your support for these Civil Engineers, Owners, Contractors and these great projects.

Further details of the winning projects can be found in this newsletter.

The deadline for the  
September 2007 issue is  
5:00 p.m.  
FRIDAY, August 17, 2007  
No exceptions.

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Your newsletter editor is:  
**Kristin Quick**  
seattleASCEnews@gmail.com

Please send correspondence to:  
Attn: ASCE Newsletter Editor  
3728 Beach Drive SW, #4  
Seattle, WA 98116  
Phone: 206-310-4847  
Fax: 206-842-9259

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All change of address information  
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**AMERICAN SOCIETY OF  
CIVIL ENGINEERS, SEATTLE SECTION**  
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ments.

## President's Column

By Cliff Williams, PE

### Congratulations!



*Congratulations to the winners of the Student Paper Competition.* The winners were two teams from Seattle University, as UW was a "no-show." I sat in on the competition night held at SU. As always (this was my third time) it was a heart-warming experience, as it brought me back to my university days of 40 years ago. I witnessed the inquisitiveness, anticipation and excitement as the students presented their findings. It helps rejuvenate the old bones and slower minds. Section Members, consider reminiscing about your student days and take in next year's competition.

*Congratulations to the winners of the Outstanding Project Awards.* This is our members' opportunity to present their achievements for judging by their peers. I assume we are all proud of our contributions to the region as we do our part at improving the environment and enhancing local services. The annual competition is one of the great services ASCE provides its membership. We're given the opportunity to shine a light on our achievements. For consultants in particular, this is where you are invited to present your wares and celebrate your accomplishments with your clients. You are even given plaques, which you and your clients can proudly display on your walls and even reference in your proposals or feature on your letterheads or on your web site. I can see it now: "Award-Winning ABC Engineering." Talk about seeing your name in lights!

Then there is the next step, the Regionals. With the formation of Region 8, the opportunity is now available to submit your award-winning projects to the next level and maybe even onto the National finals. For those who didn't participate this year, there is always next year. Watch for the notices starting next Fall.

*Congratulations to the new Section Officers.* We appreciate the turnout for the vote and are pleased the email voting process is working smoothly. I look forward to serving our new President, Jack Bjork next year. Give him a call of congratulations; I am sure he would appreciate it. We had a large contingent running for the open Board Director position. That's great news because it shows the growing interest in membership involvement. For those who weren't selected this time, please consider leadership positions in some of our committees and groups. We have five dormant committees. These could use your energy to get restarted. Thanks for your willingness to serve.

*Congratulations and welcome to The Boeing Company* in entering into partnership with ASCE. Maybe we can soon look forward to having future Section leaders coming from the Boeing Branch.

*Congratulations and thank you to Section Members serving on National Committees.* See listing elsewhere in this issue.

**Start Planning for 2007/08:** Attention Branches, Chapters, Committees and Groups

**Budget:** Get your claim in for a piece of the pie. Don't forget, like National we are committed to raising the bar in membership services, technical training and outreach. See notice in this issue.

**Leadership Workshop 07/08:** Please plan to attend the leadership workshop in August hosted by Jack Bjork, PE, M.ASCE President Elect.

Have a Great Summer! See you at the ASCE National Concrete Canoe Competition on June 16<sup>th</sup>.

*Cliff Williams, PE* (Section President)

# ASCE 2006 Outstanding Project Awards

By Ron Borowski, PE—Local Awards Judge

The 7th annual Outstanding Project Awards night will be held on Wednesday, June 13 as part of the regularly scheduled June Section meeting. The Awards Night will recognize six projects in four categories for their overall excellence in design. The winners of the Outstanding Project Awards will be announced at the meeting. Besides the nominating firms, credit goes, where applicable, to the other firms on the project team and the clients' staff who contributed to the success of these projects. One "Outstanding Project Award," and up to two "Honor Awards" will be presented in the following project categories:

- Geotechnical
- Transportation
- Site Development
- Small Projects

Don't miss this opportunity to recognize your fellow ASCE members and celebrate the great work we are doing to maintain and improve the infrastructure upon which our quality of life depends. Each team receiving an award will make a short presentation at the meeting describing the challenges that they faced and the solutions that led to successful implementation of their designs. Mark your calendar and plan to attend this exciting event to celebrate our civil engineering accomplishments.

## ASCE Judges' Remarks:

**Olive 8 Excavation Shoring** - The site presented many challenges, which were overcome by an innovative mix of two proven geotechnical approaches to meet City of Seattle permitting requirements, and provide a cost effective solution for the client.

**Silver Reef Casino Stone Column Foundation** - The successful use of a stone column is very unusual for a tall building. This turned out to be an economical means of meeting foundation requirements.

**Kentlake Highlands** - The designers took advantage of the variations in the area's soil types to provide an economic drainage solution. The solution saved the client costs that would have been otherwise encountered using conventional measures.

**High Point Natural Drainage Systems** - This project has an international reputation for innovation and being a civil engineering "green project." Distinguishing features included elements like porous concrete pavements that met vehicle load requirements, and widespread use of natural drainage swalls.

**SE 16th Street Improvements** - This road project had all the right pieces to provide a safe and attractive facility for the traveling public. All of the design features were well executed.

**Preston Frontage Road Bridge Emergency Scour Repair** - The project engineer, contractor and county forces dealt with an emergency in an incredibly short period of time to protect the bridge from further damage and preserve community access and safety.

## ASCE Local Outstanding Awards Judges:

- Randy Sleight, *Snohomish County*
- Ron Borowski, *City of Seattle*
- Nimmy Gnanapragasam, *Seattle University*
- Frank Pita, *Milbor, Pita & Associates, Inc.*

## Local Section Awards Coordinator

- Paul Grant, *PanGeo, Inc and Immediate Past President ASCE Seattle Section*

## Project Submittals

| CATEGORY                             | PROJECT NAME                                                              | SPONSOR                          | OWNER              |
|--------------------------------------|---------------------------------------------------------------------------|----------------------------------|--------------------|
| Geotechnical and Site Development    | Olive 8 Excavation Shoring Design                                         | GeoEngineers                     | Hedreen & Co       |
| Geotechnical                         | Silver Reef Casino Expansion Stone Column Foundation                      | Lachel Felice                    | Silver Reef Casino |
| Site Development and Water Resources | Kentlake Highlands Infiltration Drainage/Wetland                          | Triad                            | Yarrow Bay Del.    |
| Site Development                     | High Point Natural Drainage Systems and Infiltration Drainage Development | SvR Design                       | City of Seattle    |
| Transportation                       | SE 16th Street Improvements                                               | Reid Middleton                   | City of Bellevue   |
| Small Projects                       | Preston Frontage Road Bridge Emergency Scour Repair                       | Integrity Structural Engineering | King Co. Roads     |



## Congratulations and a Big Thank You to the Section Members Serving on National Committees

By Cliff Williams, PE

On behalf of the Section and the National members, I would like to extend a thank you to the following Seattle Section members serving on National Committees with many members serving on more than one committee. Some of the committees are *Technical* including prestressed concrete, seismic risk and soil improvement; *Standards* including air-support structures, fiber composites and polymers, and wood construction; and *Planning* including airport planning and operations, international activities and sustainability.

The engineering field and the general public all benefit from your involvement with and contributions to these committees. We are proud of such a large number of participants from the Seattle Section and grateful for your unselfish service. *Thank you.*

### **Kitsap Branch**

Jack Christiansen  
David Gilbert  
William Henry  
Stephen Hockaday  
David Simpson  
Ronald Tognazzini

J Colcord  
Charles Crouse  
Saeed Daniali  
Frank Davidson  
David Deress  
Peter Douglass  
Bradley Erickson  
Conrad Felice

Steven Kramer  
Robert Lawson  
Fangbiao Lin  
E Douglas Loesch  
John Loscheider  
Laura Lowes  
Alan Macnab  
Daniel Mageau

Clemens Rossell  
G Scott Rutherford  
Jae Hyun Ryu  
Donald Samdahl  
Richard Schaefer  
John Schaufelberger  
Jack Scott  
Kenneth Simons

### **North Branch**

Jack Cox  
Kris Hamilton

Stefanie Fishman  
Edward Gervais  
Jennifer Goupil  
Robert Griebenow

Alan Mattock  
Thomas Mc  
Collough  
P Erik Mikkelsen

Jonathan Siu  
Randolph Sleight  
Shelley Sommerfeld  
Kimberlie Staheli

### **Seattle Section**

Donald Anderson  
Alfredo Ang  
Pedro Arduino  
Jerry Barbera  
Daniel Becker  
Roger Beiler  
Jeffrey Berman  
Robert Bernstein  
Greg Briggs  
Ann Bryant  
Howard Burton  
Cheryl Burwell  
Thomas Bykonen

David Gromala  
Robert Harn  
Michael Harney  
John Harrison  
Neil Hawkins  
William Heubach  
Robert Holtz  
John Hooper  
Henry Haiming Hu  
Edwin Huston  
Satendra Jain  
Richard Johnson  
John Jurgens  
Mark Killgore

Gregory Miller  
Jack Mowreader  
Tarelle Osborn  
Carlos Ospina  
Bruce Ostbo  
Richard Palmer  
R Phelan  
K. Sri Rajah  
Raymond Rawe  
Dorothy Reed  
Paul Riemann  
Walter Ritchie  
Charles Roeder  
Eddy Rojas

H David Stensel  
David Swanson  
John Tawresey  
Andrew Taylor  
John Tessem  
Michael Valley  
Gregory Varney  
Erling Vegsund  
Marinus Voskuilen  
Raymond Walton  
Keith Ward  
Wade Watson  
Tom Xia

# ASCE Seattle Section Executive Board Meeting Minutes For May 9, 2007

## Attendance:

Board Members: Paul Grant, Garth Merrill, Eric O'Brien, Tarelle Osborn, Arthur Fleming, Jack Bjork, Tom Schnetzer, and Jeanne Justice

Other Section Members: None

Visitors: None

**1. Call to Order:** Section President Elect Jack Bjork called the meeting to order at 4:30 PM.

## 2. Regular Business

- The April 11, 2007, Executive Board Meeting minutes were unanimously approved.

## 3. Treasurer's Report

- Garth Merrill to check with the newsletter editor on payments for advertisements.

## 4. Standing Committees Action Items

The following board action items were identified:

- History and Heritage Committee - The Secretary, the Treasurer, YMF, and the Directors will submit past records to the History and Heritage Committee.

## 5. Technical Committee Action Items

No report submitted.

## 6. Branch Action Items

No action items.

## 7. YMF Action Items

- The YMF scholarship proposal will be presented at the next board meeting.

## 8. New Business

- A motion was made and unanimously passed to provide \$5000 to sponsor the 2007 National Concrete Canoe Competition with any unused funds to be returned to the Section.
- The Board discussed increasing the value of the speaker gifts. Concern was expressed that some agencies can only accept a gift of limited value. Tom Schnetzer will check this and report at the June meeting.

## 9. Round Table Announcements for Meeting

- Ballots for officer Positions (Paul Grant)
- Concrete Canoe Competition and Concrete Carnival (Eric O'Brien)
- Rebuilding Together (Arthur Fleming)
- Carpooling to Section meetings (Jeanne Justice)
- YMF Charity Pub Crawl (Doug Knapp)

**Meeting adjourned at 5:30 pm.**

**Next Meeting:** Wednesday, June 13, 2007 (Outstanding Project Awards) will be at McCormick and Schmick's in Seattle.

**Minutes taken by:** Tom Schnetzer

# Boeing Partners with ASCE

By Ken DeBord, P.E. M.ASCE  
President, Boeing Branch

As of May 8th, 2007, The Boeing Company has officially entered into partnership with ASCE. Boeing has long had a working relationship with ASCE through its External Technical Affiliations program, but this new agreement allows Boeing to get more integrated into ASCE through the various partnership agreement terms.

Included in the partnership are:

- Three complimentary registrations to ASCE conferences
- 24 memberships in ASCE
- Access to ASCE technical library
- 10% discount on additional individual memberships
- Gold card, good for 40 research and journal searches
- Assigned team at ASCE to insure full value received (Carol Vargas, Director, Partner Programs)
- Membership in CEFI (Civil Engineering Forum for Innovation)

Boeing's interests will be represented in ASCE conferences and organizations, including the:

- Annual Conference
- Structures Congress
- CEFI
- Aerospace Division International Conference
- Seattle Section ASCE Chapter

Boeing will:

- Promote Boeing job opportunities for Civil Engineers at ASCE conferences and publications.
- Work to increase the number of Civil Engineering new hires in critical skill areas (structural analysis and design).
- Participate in college recruiting events by engaging ASCE Student Chapters at University of Washington, University of Puerto Rico, UC Berkeley, and others.
- Increase the number of Boeing Engineers who are members of ASCE by 25%.
- Plan the ASCE Airports Pavement Conference for 2008 in Seattle.

## ASCE National Concrete Canoe Competition

FOR THE FIRST TIME EVER... The Concrete Canoe team from Washington State University (the winner of the Pacific Northwest Regional Competition) and the team from the University of Washington (the Host school of this year's ASCE National Concrete Canoe Competition) will **BOTH** be competing at the Nationals!! **AND** it will be in the Seattle Section's own backyard at **Lake Sammamish State Park in Issaquah, WA on June 16th, 2007**. That's right, for the first time in the 20-year history of the ASCE National Concrete Canoe Competition, the event will be held in the Pacific Northwest.

Each year the competition is held in a different city in the United States and hosted by an ASCE Student Group. This year the students at the University of Washington will serve as the host school of the 20th ASCE National Concrete Canoe Competition.

### *In their own words:*

*Western Kentucky University student, Cody Henderson: "It's a great feeling to compete with the best engineering students in the country. While I doubt that any of us will get jobs building concrete canoes, the competition is more than that. It forces us to effectively manage time & resources to design, build & compete. Experience in those areas is what I'm looking for, & what I think employers are looking for as well."*

Over 250 schools competed at regional competitions across the country and the winners from those competitions are advancing to the Nationals. This year's competition will have more than 350 of the top civil engineering students from 22 schools from across the country, including the University of Wisconsin - Madison, University of Florida, University of Illinois - Urbana-Champaign and École de Technologie Supérieure (Montréal).

If you've never been to one of the ASCE National Concrete Canoe Competitions, this is a rare opportunity that you won't want to pass up. The endurance races will begin at 8:00 AM on Saturday, June 16th and the sprint races are tentatively scheduled to begin at 10:00 AM. We have a limited number of lunches still available for race day, but you **MUST** get your reservations to the Seattle Section by **Noon on Monday, June 4th**.

If you can't make it to the races, there are additional events that will be happening on the University of Washington campus earlier in the week and we would love to see you there.

For more information (including the full schedules), please go to [www.canoe2007.org](http://www.canoe2007.org)

## Special Seattle Section Event: Lunch at the ASCE National Concrete Canoe Competition

**Date:** SATURDAY, June 16th, 2007

**Location:** Lake Sammamish State Park (2010 NW Sammamish Road, Issaquah WA)

### **WE WOULD LIKE TO ENCOURAGE CARPOOLING:**

If you can provide transportation or if you need a ride, please note it in your email or your RSVP message

**Menu:** Barbecue Beef, Pulled Pork, Pulled Chicken, Buns, Barbecue Beans, Potato Salad, Cole Slaw, Longhorn BBQ's "Original Barbecue Sauce" and "Spicy Barbecue Sauce," Assorted Canned Pop & Bottled Water.

**Cost:** \$20 per person. Students \$15 per person (NO LATE RESERVATIONS.) Spouses and guests are welcome. Cash or checks payable to ASCE are accepted.

**Time:** approx 12:00-1:00  
(Depending on the races, this may start earlier.)

### **Reservations:**

We only have 100 spaces available, so make your reservations now!

Preferred Method: You can now send an email to [seattleascereservations@gmail.com](mailto:seattleascereservations@gmail.com) with your name and the names of the guests you are making reservations for.

**You MUST make your reservations by Noon, Monday, June 4th.** Unfortunately, we cannot accept late reservations for this event. You may also call (206) 926-0482 and leave a message. Please mention that this is for the Concrete Canoe event.



*2005 First Place Winners:  
University of Wisconsin - Madison*

## Region 8 Report

By Governor Larry Bennett P.E., Alaska Section

The national nominating committee has chosen D. Wayne Klotz as the official nominee for the office of President-elect and Henry J. Hatch as the official nominee for the at-large director position. This latter position is a new one, established in connection with the recent governance restructure. The June issue of *ASCE News* will include a ballot with these names as well our **Region 8 Governor nominees**, Dale Nelson and Dennis Richards. Members will also be able to vote electronically. Ballots must be returned no later than August 14.

There is expected to be **no national dues increase this year**. A by-law change will be considered at the National Board's next meeting to increase the authorized dues ceiling by \$10. Such action would provide some flexibility in dues setting but is not expected to lead to an increase this year.

With regard to Region 8, I'm pleased to advise that my successor as chair of the region's **Communications Committee**, **Bob Turner** from Spokane, has been successful in his role as webmaster in implementing a program that allows him to access and edit the Region 8 website. So, progress is being made. I urge you to visit the site at <http://region8.asce.org/> and see the current status. This is going to be a key means of communicating in the region. Save the link, and watch it expand and become more useful over the next few months.

Region 8 will be implementing a **Project Awards Program**. The plan for this year is to start small by selecting two projects from the region - one a "large" project and one a "small" project - and present the awards at the September meeting in Boise. I call your attention to this new program now, so you can watch for the announcement of criteria, deadlines, and the like that will be forthcoming shortly.

Looking further ahead, the next winter meeting of the Board of Governors and Assembly, including the **Workshop for Section and Branch Leaders and WRYMC**, will be held in **Las Vegas** before and during the week-end of February 8 & 9, 2008.

Finally, I plan to try to finish up my unit visits in September, just prior to my cycling off the board. I'll be in touch with the **Seattle University Student Chapter** and the **Kitsap Branch** in hopes of scheduling a visit that month.

Thanks for continuing to carry the ASCE banner on your home turf, where the real action takes place. I appreciate your good work, and I encourage you to contact me if I can assist you.

## Election Results

The officer election results are in and the new members for the Section Board for 2007-2008 include:

- President:** Jack Bjork (R.W. Beck)  
**President - Elect:** Tom Schnetzer (HNTB)  
**Secretary:** Marc Schulte  
(RoseWater Engineering)  
**Director (2010):** Perry Cole (INCA Engineers)

The new officers will be sworn in at the conclusion of our Section meeting on September 12th. The newly sworn in officers will then join our Board of Immediate Past President - Cliff Williams, Treasurer - Garth Merrill, YMF Representative Alternates - Doug Knapp and Tarelle Osborn, and continuing Directors - Arthur Fleming (2008) and Jeanne Justice (2009).

Congratulations to the newly elected officers and thanks to all who voted!

Sincerely,

Tom Schnetzer, P.E., M.ASCE  
Secretary, Seattle Section

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## National Board Rejects Formation of 501(C)6 Organization

As we reported in earlier Section Newsletters, ASCE National was considering forming a 501(c)6 organization. This action would allow higher funding levels for lobbying and would permit the creation, through additional official action, of a national political action committee (PAC).

The Seattle Section Board approved and submitted a resolution to National recommending formation of the organization.

National put a lot of effort and study into the proposal including holding a Town Hall Meeting in Bellevue in February.

At its April meeting, the National Board failed to approve the proposed by-law change that would have established the new organization. A 2/3 vote was required (16 of 24), and the vote in favor was 14. Thus, the matter is dead, and the Board dissolved the committee that was working on the issue.

Thank you to all in the Seattle Section that worked on this issue.

## A Trip to Biloxi with Rebuilding Together

By Michael Chamberlain, M. ASCE, Tim Lane, M. ASCE, and Carol Ravano, M. ASCE

In August 2006, the local chapter of ASCE asked members to volunteer for a week rebuilding houses in Biloxi, Mississippi which had been devastated by Hurricane Katrina. Rebuilding Together (RT) Seattle organized the trip, and six engineers, five skilled construction workers from Remco/Deacon, the head of RT Seattle, and two spouses answered the call. ASCE members Tim Lane of King County DOT, Maureen Kwolek of Resolvent, Carol Ravano of Jacobs Associates, Michael Chamberlain of RFA Structural Engineers, Joe Amann of Herrera Environmental, and Kevin Keith of KPFF went south for a week of sweat, laughter, and culture shock.



The peninsula upon which Biloxi is situated had been hit hard by the hurricane. A 25-foot high wall of water from the Gulf of Mexico hit the coast followed by a surge wave that came in from the landward Backbay. There was standing water in some of the neighborhoods for four days, with residents forced to live on the top floor of their houses, waiting for rescue. A year after Katrina, the extent of the devastation was still shocking. Most houses and businesses along coastal road Hwy 90 were gone; only a fraction of the houses in the interior neighborhoods were inhabited. Most businesses were closed; only the casinos seemed to be open and thriving.

We were housed in Biloxi's Yankee Stadium, former home of football's Shrimp Bowl Classic, which the Salvation Army had converted into an operations center for volunteers. We slept in prefab houses located on the sidelines, showed



ered in the locker rooms under the bleachers, and ate hearty food prepared by Salvation Army volunteers in the end zone under huge tents. It was like a week of summer camp, except for the après work beers, bought at the local corner store and drunk on the stoop of the closed restaurant across the street. Colt 45...the group favorite!



Our group was assigned to work on two houses, which had been gutted by previous volunteers from Habitat for Humanity. One house was a four-room masonry block structure, owned by dear old Helen Catchot. Helen was a woman in her late 50s, who had her own harrowing tale to tell. She rescued her 84-year old neighbor and then swam over to a telephone pole and tied herself some 25 feet above the ground, all the time hanging on to her neighbor through the brunt of the storm. After the storm, Helen was visited twice by President Bush, but now, some 13 months later, was still was living in the FEMA-provided trailer.

Our group installed insulation and drywall, and entirely rebuilt the bathroom, complete with shower head, giving Helen the first shower in her life! Closets were also built into her bedroom, another first for her. On the day we left, brand new kitchen cabinets arrived and she shed tears of gratitude over the new cabinets and all the work we accomplished that week. Helen told us it had been such a long, long time since there was any hope of a new beginning but now it hit her – it was REALLY going to become a reality.

Later in the week, our group moved on to a wooden structure, whose inhabitants, Ella and Reggie Kemp were forced to live in their attic for four days after the hurricane, waiting for the water to subside and help to come. Reggie, who hadn't been swimming in 20 years, fought his way through the floodwaters to rescue eight neighborhood children and two elderly folk. He told of the relentless heat in the days after the storm with no water to drink, no help available, and only a few cans of food to eat.



At this house, we rebuilt the bathroom and installed new windows, insulation and drywall, and . Reggie and Ella treated us to a true southern BBQ on our last day to show their appreciation. The food and the hospitality were second to none.

While we worked hard during the day, we had time in the evenings to explore the area, even venturing into New Orleans for a night of sightseeing. One night, we stumbled upon the west end of the construction site where the Hwy 90 bridge, which spanned the mouth of the Bay of

See *Biloxi* on page 9



*Biloxi (continued from page 8)*

Biloxi, was being rebuilt on a new alignment. After checking out the new construction and huge equipment, one of the non-engineers in our group wondered "Is this what y'all do for fun?" Well, in fact, it is!! The next night, when we accidentally found the construction site at the east end of the bridge, she was sure that we were crazy!

Eating in the South was quite the culture shock for us Seattleites. One night, we ate at a restaurant where the only thing not deep fried was the coleslaw. Fried pickles, fried green tomatoes, fried okra, fried catfish, and of course, hush puppies. Grits for breakfast (do you eat yours with butter and salt or brown sugar and raisins?). A celebratory dinner at the Shed BBQ, where a vegetarian didn't stand a chance. And, to the amusement of many, the "To-Go" buckets of beer (32 oz.) in New Orleans. Of course, we traveled with a designated driver!

We left after the week with new skills, new friends, and new insights. We hadn't laughed so much, nor worked so hard, nor sweated so much in our lives. It was difficult to leave, with so much work left to do, but wonderful to get back to Seattle's temperate weather. We are grateful for RT and ASCE for sponsoring the trip.



## Student Paper Competition

By Robert Parrish, P.E. M. ASCE

The evening of May 2, 2007, saw civil engineering students competing for prizes during the annual University Advisory Committee Student paper competition. This year, six teams presented their senior design projects to a panel of professional engineers composing of Doug Knapp with the Corp of Engineers, Tom Schnetzer with HNTB, and Rebecca Cushman and Michael Moody both with Triad Associates.

The competition was fierce, as the teams pulled out all the stops to deliver professional presentations.

The winners of the competition were as follows:

### First Place: \$300

High Cedar: A Single Family residence  
*Presented by Craig Ruitrigo and Cale Regidor*

Effects of PVC Stay-in Place Formwork on Hydration  
*Presented by Kristian Lowrie and Nicole Wheeler*

### Second Place: \$100

Shear Connection on Timber-Concrete Composite Floors

*Presented by Travis Welt and Ben Frizzell*

8th Avenue South Streetscape Alternatives

*Presented by Zohrah Saily and Josh Brewer*

### Third Place: \$75

Civil Design of Mixed Use Office and Retail Building  
*Presented by Rachel Wiseman and Richard Poirier*

Snohomish County Bridge 546

*Presented by Jimmy Jie and Timothy Tipton*

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## Summer Reading: Transportation Returns to the Seattle Section

By Attila Laszlo, UDT Committee Chair  
and Jeff Highley, UDT Committee Co-Chair

When the ASCE Seattle Section returns from its summer break in September, it will mark the return of a committee: *Urban Development & Transportation (UDT)*. Now, you might be scratching your head thinking "I don't remember the Section ever having a committee by that name." Well, you would be right - it's a new name for a "new" committee. The name might be new, but the purpose has been around the Seattle Section for a long time. In a past incarnation, the committee was called *Infrastructure Transportation and Urban Planning (ITUP)*. Its previous name was *Transportation and Development*, with an emphasis on Transportation.



The "new" committee will address transportation issues including the demand for transportation as a result of and precursor to Urban Development. The purpose of this committee is to create

a forum where members can educate themselves about and advocate for improvements in those elements of infrastructure for which civil engineers are responsible and to address urban development issues.

Planned presentation topics include:

- Downtown Bellevue Development
- South Lake Union Redevelopment
- The Landing urban village of Renton
- Sound Transit Phase II
- RTID Transportation priority (Transit vs. Highway)

As you can see, it is an "old" committee with a "new" vision. And, we want you to be a part of it. The Urban Development & Transportation (UDT) Committee will be holding an organizational meeting on **Wednesday, August 8** to finalize the program for next year. To learn more details about this meeting or to become a valued member of this exciting "new" committee, please contact:

**Attila Laszlo, UDT Committee Chair**  
206-406-6514  
attila.laszlo@dmjmharris.com

**Jeff Highley, UDT Committee Co-Chair**  
425-450-2525  
jhighley@hntb.com

## YMF SUMMER EVENTS

### Seattle A/E League Volleyball

May 29 thru August 25, 2007



The YMF will be fielding a coed outdoor (grass) volleyball team this summer, May 29 thru August 25, on Tuesday evenings at Green Lake. The team will be joining the Casual division of the Seattle A/E Volleyball League, so players of all ability levels are welcome to join in the fun. A final tournament will be held on Sunday, August 25th. Contact Shane Binder ([shane.binder@parsons.com](mailto:shane.binder@parsons.com)) for information or to get on the roster.

### Fremont Briefcase Relay

June 8, 2007



Come celebrate the start of summer with the popular 23rd Annual Fremont Briefcase Relay on June 8, 2007. 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 - we already have teams forming at Parsons, HNTB, and other engineering offices. 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 Shane Binder ([shane.binder@parsons.com](mailto:shane.binder@parsons.com)) for more details.

### Concrete Canoe Family Festival

May June 16, 2007



Celebrate ASCE's 20th Annual National Concrete Canoe Competition by volunteering at the Concrete Carnival Family Festival. Help kids and their families discover how civil engineering students manage these amazing feats. Watch the races and explore hands-on activities. Kids can feel the heat as concrete is formed when they make and decorate concrete objects, mix and eat a "concrete" cookie and visit the Concrete Petting Zoo for clues to how concrete canoes float. Receive a free T-shirt and lunch, enjoy the lakeside view and cheer on your favorite team. All volunteers are welcome. Bring a friend or the entire family! Contact Shana Gipson at [sgipson@asce.org](mailto:sgipson@asce.org) if you're interested in volunteering.

# Introduction to Solar Powered Street Lighting

By Eric Hands, EIT, M.ASCE

Solar powered products are not connected to the electrical grid for back up power and thereby provide a real supplement to the cost, pollution, and source dynamics which are associated with the conventional western regional and other grids. The solar panel functions as a battery charger which stores electrons converted from photons generated by the sun in the DC battery included in the solar street light unit. The stored energy is used later at night when the sun is not shining.

Design capabilities of the manufacturer include the ability to determine the varying intensities of sunshine, as well as its seasonal changes in duration, which result from changes in the Earth's tilt through its yearly rotation around the Sun. In addition, other complicating factors must be evaluated, which include weather, cloudiness, solar intensity, terrain influenced microclimates and the seasonal duration of available sunshine (already referenced). Next, from the little energy that is produced in each solar street light unit, how efficiently can that energy be used to produce a light that is sufficiently bright to replace the grid-connected street lighting? Reliably turning on each night and providing good lighting regardless of weather conditions are design related factors which a good engineer must incorporate into the street light design.

Lamp wattage is simply a measure of electrical consumption by the lamp, which avoids the question of true brilliance and quality of light provided by a true solar street light rather than one which compromises by using compact fluorescent cold cathode lamps (fluorescent or neon lights).

Light output must be measured in lumens or candlepower and light frequency must be measured in degrees of Kelvin. Such measures of the light output also accurately convey the influences of generated light on the light perception requirements of humans.

Finally, the solar street light must be more reliable than grid-powered street lights and immune to brown outs as well as the occasional black out. Therefore, the successful solar street light must be configured to be site specific in accordance with available sunshine conditions at each site, the number of clear sky days, the cloudiness index, rainy days, micro-climate conditions, shading from topography and buildings, balancing electrical load applied with the required output, which resembles designing a generator to avoid brownouts caused by imbalances between electrical demand and supply.

The EAGLE-1 ([www.eagle-1mfg.com](http://www.eagle-1mfg.com)) street lights satisfy the aforementioned requirements for satisfactory design

by manufacturing solar street light systems which are engineered to substitute for conventional grid connected street lighting. EAGLE-1 sells directly to end users and qualified dealers for the reason that most customers need an agent who is qualified to determine the proper electrical and lighting conditions for each specific site where each solar light is to be located.

The cost per unit is dependent on brightness of the lights, site geographic location, and the run time required. A winter run time of 14 hours dusk to dawn is achievable or can be sequenced for areas with light pollution problems, where the light operates for 6 hours after sunset, turns off, and then turns on again at 2 hours prior to sunrise. Whatever electrical energy is consumed at night should be replaced the next day to obtain the maximum useful life for the storage batteries.

The EAGLE-1 HLS-35E is a 4th generation solar street light which replaces conventional High Pressure Sodium (HPS) street lights with light pole spacing at 100 foot intervals. The system's HIGD lamping system replaces the High Pressure Sodium Lamps for roadway use in extremely cold or hot weather and is installed and operating successfully at U.S. Air Force bases in Saudi Arabia and Qatar, as well as a U.S. Marine Corps base in Kandahar, Afghanistan, as well as commercial installations, schools, parking lots, freeway rest stops, private homes, and ranches in Afghanistan, Saudi Arabia, the Bahamas, Malaysia, the States of Oregon, California, Nevada, and Wisconsin.



The system is designed for both northern latitudes where the angle of the sun is low on the horizon and tropical areas where the angle of the solar array "tilt" is close to the vertical. The weight of each light is placed directly over the unit center of gravity of the supporting pole.

When high winds accompany extreme weather conditions, then the solar array changes its "tilt" to the horizontal plane so that a minimum side profile is presented to the wind.

The system HIGD lamps produce a full spectrum light so that all colors are visible to the eye and light is reflected from a much greater distance than with the orange light from the monochromatic HPS sources which tend to be absorbed by the illuminated objects.

Each system can be installed to standard 4" x 4", 5" x 5", or round poles by using a standard lift. When performed by a trained crew, installation requires 20 minutes rather than hours.

## Rebuilding Together -- April 28, 2007

by Liz Korb and Arthur Fleming

On April 28th of this year, 25 local ASCE members volunteered their Saturday to remodel the Community House on Capital Hill. The Community House is a mental health agency that provides a full range of outpatient/residential services (medication, case management, and therapy) to adults who have behavioral health issues. Another benefit that the Community House provides to its clients is a free lunch every weekday and a place for clients to socialize and not feel isolated. Due to the high traffic demands placed on this house, much of the flooring and kitchen areas had become worn and were in need of major repairs.



The day before our work was to begin, the managers at the Community House were informed that the County was going to perform an audit on Monday. Five of the full-time employees had to spend Saturday working in their offices gathering the necessary paperwork. While having them around was an additional obstacle it was satisfying to hear them praising our work every time they came downstairs. The only real problem was the dog that kept walking through our wet floor-leveling compound!



The work was divided into three sections: kitchen, floors and painting. The Community House has an industrial sized kitchen to serve large quantities of food each day, however, the countertops and cabinets were moldy and dilapidated. Volunteers led by Dominic Parmentier built and installed new countertops.

In high-use areas such as the front entrance and by the kitchen, the vinyl flooring had worn completely away leaving large gaping black holes. Not all of the flooring could be replaced, so just the areas of concern were patched. Sam Farver guided a group of volunteers in ripping out the old flooring and laying out new vinyl floors and molding along the wall. The flooring work provided a significant obstacle to the other volunteers and the workers who were trying to traverse the house. Eric Herzstein built a nice wooden bridge so people wouldn't step on the drying floor, but even so, several repairs had to be made throughout the day.

The third piece of our work, the painting, was critical for lighting up the front porch, the hallways, and the dark stairway. Big thanks to Diane Hilmo, who once again led a large group of painting volunteers in covering a lot of area with some bright new paint.

In summary, Rebuilding Together Seattle reported this year as an "enormous success thanks to the generous contribution of time, money and volunteer efforts of organizations such as ASCE." Our section donated \$3500 this year to RTS to help with material costs and organization of this annual event. For the ASCE section members that get involved each year, this event provides a great opportunity for us to work on our leadership skills, practice solving problems, help our neighbors, practice our carpentry and painting skills, and have a bit of fun at the same time. Our efforts were greatly appreciated. Thanks everyone!

## 3rd Annual ASCE Seattle Section YMF Golf Tournament

July 13th, 2007

The Seattle YMF will be holding this event at the Willows Run Golf Course. This is a wonderful opportunity for members and non-members to get together, network, relax and play golf. The proceeds from the tournament will be used to establish a fund in the name of the ASCE Seattle Section Honorary Members benefiting students at local universities.

The Tournament will be an 18-Hole modified scramble. Lunch and the awards presentation will follow. Registration forms will be posted on the ASCE Seattle Section website at [www.seattleasce.org](http://www.seattleasce.org)

Call a couple of your clients today and invite them to play on your team. Even if you aren't a golfer, you can support this event by sponsoring holes, contests, and refreshments. Sponsorship opportunities are on a first come basis.

**Date:** July 13th, 2007

**Time:** Registration 7AM; Shotgun Start 8AM

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

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

**Price:** \$90 - Per Player - Includes Golf, Cart w/GPS, Range Balls and Lunch

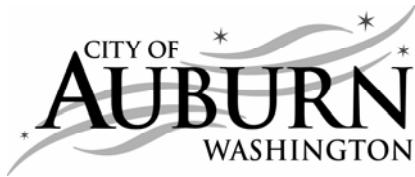
For more information on sponsorship opportunities, prizes or if you would like to help out, contact Eric Herzstein at 425-450-2548 or

[eric.herzstein@parsons.com](mailto:eric.herzstein@parsons.com).



## 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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### Technical Services/Line of Business Director

The City of Olympia, WA, seeks a Technical Services/Line of Business Director. An understanding of engineering, construction, and design preferred; Civil Engineering, Public or Business Administration degree and 4+ years of management experience required.

Submit resume by June 22, 2007.

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Description available at:

<http://www.averyassoc.net/jobs.htm>

An advertisement for Colson Technology. The background is a photograph of a man in a white shirt and tie, sitting in a lounge chair on a grassy hill, looking up at the sky. A laptop is on a table next to him. The text "PEACE OF mind" is written in large, white, sans-serif letters at the top. Below it, in smaller text, are the services: "Computer network installation, upgrades and support", the website "www.colsontechnology.com", the email "info@colsontechnology.com", and the phone number "(425) 885-4322". The Colson Technology logo, which consists of a stylized 'c' in a circle followed by the word "colson" in a bold, lowercase font and "TECHNOLOGY" in a smaller, uppercase font, is positioned to the right. Below the logo is the tagline "compassionate computing" in a red, lowercase font.

## Calendar of Upcoming Events:

### May 29th – August 25th, Evenings

#### **YMF: Seattle A/E League Volleyball**

Location: Green Lake

Contact: Shane Binder, [shane.binder@parsons.com](mailto:shane.binder@parsons.com)

### June 8th

#### **YMF: Fremont Briefcase Relay**

Location: Green Lake

Contact: Shane Binder, [shane.binder@parsons.com](mailto:shane.binder@parsons.com)

### June 16th, 8am

#### **ASCE National Concrete Canoe Competition**

Location: Lake Sammamish State Park in Issaquah

Contact: [www.canoe2007.org](http://www.canoe2007.org)

### June 16th, 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)

### June 16th, Noon – 1pm

#### **Seattle Section Lunch at Concrete Canoe Competition**

Location: Lake Sammamish State Park in Issaquah

Cost: \$20 per person. Students \$15 per person

RSVP: Reservations must be made by Noon on June 4th

Contact: [seattleascereservations@gmail.com](mailto:seattleascereservations@gmail.com) or (206) 926-

0482. Please mention the Concrete Canoe event.

### June 20th, 6 – 9pm

#### **North Branch Meeting**

Location: UW More Hall, Rm 218

Speaker: Ravyn Whitewolf – Engineer’s Without Borders

Topic: “One person’s Ghana Experience”

Contact: Inga Drechsel, (360) 647-7151 or [Mid@deainc.com](mailto:Mid@deainc.com)

### July 13th, 7am

#### **YMF: 3rd Annual ASCE Seattle Section**

#### **YMF Golf Tournament**

Location: Willows Run Golf Course

Cost: \$90

Contact: Eric Herzstein, (425) 450-2548 or

[eric.herzstein@parsons.com](mailto:eric.herzstein@parsons.com)

### August 23rd

#### **Annual Leadership Workshop**

Location: TBD

Contact: Jack Bjork, President Elect, 206-695-4608

## TIME VALUE

June 2007 Newsletter  
Volume 42, Number 10

Attn: ASCE Newsletter Editor  
3728 Beach Drive SW, #4  
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SEATTLE SECTION

