One of the privileges of the section president is to attend the annual ASCE conference as the Utah Section representative. This year, the Global Engineering Conference was held in conjunction with Engineers Without Borders (EWB-USA) in Panama City, Panama. In celebration of the 100 year anniversary of the construction of Panama Canal and the completion of the $5 Billion dollar canal expansion project (The expansion project was about 92% complete at the time of the conference). This trip was an amazing opportunity to interact with members of ASCE from all over the world, and to celebrate one of the greatest engineering achievements of modern time. The opportunity to visit the canal was fantastic; as I am not sure I could ever convince my wife to take a family vacation to Panama to see a canal.

In preparation for visiting Panama, I was encouraged to read the book “The Path between the Seas: The Creation of the Panama Canal, 1870-1914.” This book was written by David McCullough, an acclaimed historical author. If you have not already read this book, I highly recommend it. The sheer magnitude of the project, the cost, and the challenges that the canal builders had to overcome (including malaria and yellow fever) make it difficult to imagine that project being completed in our day.

I have attached some facts distributed by ASCE about the Panama Canal to the Civil Source [Editor’s Note: See the flyer section]. A couple of the things I found most interesting were: During the American construction period, 61 million pounds of dynamite were used. This was (Continued on page 2)
more Dynamite than was used in all of the American wars to date (1914). And, when the Chagres River was dammed, it created the largest manmade lake in the world, Gatun Lake. This remained the largest manmade lake in the world until the Hoover Dam was completed in 1936 to create Lake Mead.

I made a few new friends and enjoyed talking with other members of the Utah Section in Panama. These included student members and faculty from the BYU Student Chapter, there to be recognized for the Outstanding Student Section Award; Blaine Leonard, past ASCE President; and K.N. Gunalan “Guna” the Conference Planning Chairman. Guna is a perfect example of the type of engineers we have here in the Utah section. Guna stepped up to complete the planning of the conference when the planning chairman became ill and had to step aside just months before the conference. I wanted to give special thanks to him for his work on this conference, and the work he continues to do with ASCE. In a letter to Guna from Patricia Jones, the Director of the Executive and Board of Operations of ASEC concerning his role in the conference she said:

“On behalf of ASCE and its more than 145,000 members, we want to personally extend our gratitude for the outstanding job you did with the Global Engineering Conference 2014 in Panama City, Panama.

“You ... stepped up to the challenge of coordinating this conference when Fred Berger became ill, and we know the planning, organization and implementation of pulling off such an event – particularly in a foreign country - required a tremendous amount of your time and energy...

“We realize there were many people on the planning team, but it was due to your individual and collaborative leadership and dedication that everything came together for this extremely successful conference. The challenges you encountered did not deter your efforts to succeed, and we are sincerely appreciative of the program you developed.

Our wholehearted thanks to you for a truly spectacular job! Many thanks, also, to your families and employers for allowing you the time to work on this memorable conference. Your dedication to ASCE and the profession is greatly appreciated.”

Thanks to Guna for representing the Utah Section so well! Next year’s conference is scheduled to be held in New York City on October 11-14th. I would encourage any of you that can attend to consider it. Thanks again to all of you for your participation with ASCE and for the great work you do in your community as a Civil Engineer. I hope you all have a great month.
Northern Utah Branch Update by Steven Earl

We would sincerely like to thank Dr. Mac McKee for his presentation last month on Aggie Air and the UAVs that the UWRL has developed over the past 8 years. Hopefully they will have continued success with this program and they will not be hindered by the FAA.

This month’s presentation will be by Margie Borecki. She will present her research on plant uptake of pollutants and its effect on water quality.

Malgorzata (Margie) Borecki is a PhD candidate in the Civil and Environmental Engineering Department at USU with a focus in storm water quality. Margie’s background is in Landscape Architecture, and she is a registered Landscape Architect in the State of Illinois, and was an Assistant Professor at USU’s Department of Landscape Architecture from 2005 to 2009. She received her Bachelors in Landscape Architecture from the University of Illinois, and a Masters of Landscape Architecture from the University of Michigan’s School of Natural Resources.

Her presentation will take place at the Gaucho Grill, located at 633 South Main in Logan on Thursday November 20 at noon. Please bring cash and we will meet in the back room of the restaurant. Cost for lunch will be $10 per person and includes the unlimited salad bar and select grill BBQ items. Drinks are extra.

We hope to see you on the 20th!

Wasatch Branch Update by Blake Thomas

The Wasatch Front Branch will be holding our next luncheon on November 21st at Salt Lake Community College on Redwood Road. We will be hearing from the Sustainability Committee regarding sustainable development solutions. We were privileged to hear from Cliff Linford and Steve Hansen of Sunrise Engineering in our October luncheon. Cliff and Steve walked us through the design of the Ogden Water Treatment Plan and provided a great example of the 3-D design technology used to complete their design. We thank Sunrise for their willingness to share their experience and WesTech for the use their facilities for our meetings.

As we head into the holiday season many of us look for ways to help those who are less fortunate. The Community Giving Committee will be collecting donations which the branch will match dollar for dollar up to $500 for the Angel Tree. The more that is donated the more children we can help to have a memorable Christmas. You can obtain information on how to donate by emailing the board at asce.wasatchfrontbranch.com. You may also donate in person at the November or December luncheon. We look forward to seeing you at our luncheons and wish you a happy Thanksgiving.
For our October 16, 2014 luncheon, Kim Struthers, Planning Director for Lehi City, provided a great presentation on the future development of Lehi. We appreciate Mr. Struthers willingness to share his experiences and the participation of the attendees.

For our November 20, 2014 luncheon, we will be continuing our diversification of engineering lectures with an environmental seminar. Greg Davis of URS will discuss the construction of a composite barrier system used at the Westinghouse Electric facility.

During the past decade, the URS Salt Lake City Office, in collaboration with the Seattle and Denver offices, has successfully served as Engineer of Record, Environmental Engineer, and Resident Construction Engineer for Westinghouse Electric on a subsurface multifaceted composite barrier wall remediation project in Utah. The wall consists of a site-specific soil-sepiolite mix and high-density polyethylene (HDPE) sheet pile barrier wall, which extends to depths approaching 40 feet and tops at the crest of a new 6-foot secondary containment perimeter dike.

Project activities occurred within the footprint of and without disrupting an active processing plant, and involved a 180+ acre site as part of the enhancement of the facility’s environmental stewardship. The principle directive was to construct a groundwater cutoff system around a series of existing process water evaporation ponds to prevent pond constituents and byproducts from migrating off site via shallow groundwater. The composite barrier also provided a containment system, in the form of a ring dike, to manage the risk of a potential breach of the existing ponds. Additional scopes of work included the remediation and consolidation of two Resource Conservation and Recovery Act solid waste management units for on-site disposal inside the barrier wall.

The luncheon will be at the Golden Corral in Orem Utah. Registration is through email invitation so if you have not been receiving an invite, please email Katie Jacobsen at katie@rbgengineering.com and she can add you to the mailing list.
October was an exciting month for young engineers in Utah. Beyond the ever building workloads that have end of year deadlines and the late night studying for the PE exam, somehow we made time to enjoy the season with our traditional Chili Cook-off and pumpkin carving event. We met new friends and tasted a variety of Chili entries. Thank you to all who were able to carve out some time to join us (pun intended).

At the beginning of November, all of the recent PE Examinees are breathing a breath of fresh air and hopeful of their test results. To everyone who took the October 24th Exam, the Young Member Forum would like to congratulate you on your efforts and we hope the results are in your favor.

Dust off your cleats and locate your receiver gloves, the YMF November activity is a Turkey Bowl (with footballs, not turkeys) and EVERYONE is invited. The game will be this Saturday at 10am at Sunnyside Park near the University of Utah. Standard flag football rules and the game will be coed. See our Facebook event for more information: search ‘ASCE YMF Turkey Bowl’.
UTAH GEO-INSTITUTE (G-I) CHAPTER BY RYAN COLE & RYAN MAW

We would like to thank everyone who was able to attend the EERI/SEAU fall seminar as well as the 15th Annual Design and Installation of Cost-Efficient Piles co-sponsored by the Utah G-I. We appreciate the opportunity to contribute, participate, and work with such great organizations. With 2015 right around the corner we are excited to start looking for guest speakers, seminars, and opportunities to work with other professional organizations such as ASEC, PDCA, ADSC, EERI, SEI, SEAU, UGS, BYU, U of U, Utah State, and UDOT. We would like to ask our members to let us know topics of interest as we plan for 2015. Thanks again for your support.

STRUCTURAL ENGINEERING INSTITUTE CHAPTER BY CONRAD GUYMAN

The Structural Engineering Institute has partnered with the Utah Chapter of EERI to promote seismic issues in Utah. The Utah Chapter of EERI is seeking to assemble a diverse group of professionals, public officials, and building owners who have an interest in reducing the risk of earthquakes in Utah. This can be accomplished by better understanding the hazards, reducing the risk of dangerous buildings, ensuring compliance with current codes, advocating for better resiliency, strengthening lifelines, and preparing for response and recovery. ASCE can add valuable perspective to the EERI Utah Chapter. If you are interested in helping with these efforts, please contact the EERI Utah Chapter by visiting their website at http://utah.eeri.org. You do not need to be a member of the national EERI to join the Utah Chapter. The dues are only $25 per year. We look forward to working with the Utah Chapter of EERI.

The Structural Engineering Institute could use your help. Our SEI is organized at the state level to serve our members practicing Structural Engineering in the State. The Institute needs a representative from each branch to relay information from the SEI members in each branch to the state level, and then on to ASCE SEI. Please contact your branch officers if you are willing to help our state SEI in this capacity.

UTAH ENGINEER'S COUNCIL (UEC)

The Utah Engineer’s Council (UEC) is continuing to call for technical papers to be published in the award-winning UEC Journal. The articles can be about anything of interest, but we would like to showcase engineering in Utah. The articles may include anything of interest to engineers such as projects, legal issues, continuing education, etc. The articles should not exceed 3 pages and may have a picture attached. We hope to submit at least 3 papers. Journals from previous years may be viewed at http://www.utahengineerscouncil.org/services/uec_journal.

Mark your calendars! Engineer’s week will be held February 22 – 28 with the UEC awards banquet on February 28. Additional information may also be found on UEC’s website at http://www.utahengineerscouncil.org.
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**Board of Directors**

Last Updated: November 6, 2014
The Men Who Built The Canal: Chief Engineers

**ABRAHAM E. HADLEY**
- Appointed Chief Engineer by Roosevelt
- First Chief Engineer of the Panama Canal (1906-1913)
- Designed the six locks and the Gate of the Isthmus
- "The man who gave the Panama Canal its physical character"

**WILLIAM M. GILBERT**
- Appointed by Teddy Roosevelt in 1906
- "Froze to death" in the Panama Canal
- "He was the most important engineer of the Panama Canal"

**DONALD W. STURTEVANT**
- Appointed by President Roosevelt in 1913
- "The greatest engineer of the Panama Canal"
- Designed the Gatun Locks and the Panama Canal Tunnel

**WILLIAM R. WATSON**
- Appointed by President Roosevelt in 1914
- "The greatest diplomat in the Panama Canal project"
- "A master of negotiations"

Engineering Problems Overcome

- Larger locks were built over time
- Larger vessels were built over time
- Canals and locks in Panama
- Canals and locks in Nicaragua
- The largest locks are built on the hill
- The giant locks are on the hill
- The locks are on the hill
- The locks are on the hill

7,872
Ninety-Six Thousand Shipping Routes
From New York to San Francisco Per Ship

Modern Day Administrators

**ALFRED F. S. NEWCOMBE**
- Administration of the Panama Canal 1913-1916
- "A quiet man, a thorough man, a man who knew his job"

**JOHN L. NELSON**
- Appointed as the first Director of the Panama Canal 1914-1916
- "A diplomat, a master of negotiations"

PANAMA VS POST PANAMA*

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<td>45,000 TBP</td>
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<td>42,000 TBP</td>
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<td>500 ft. Increase</td>
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<td>300 ft. Increase</td>
<td>38,000 TBP</td>
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Add Some Additional Perspective

**EFFEL TOWER**
- 1,066 ft (324.8 m)

**STATUE OF LIBERTY**
- 305 ft (93.46 m)

*Pounds and Tons are based on the last decade for ships traveling through the Panama Canal
*Trump ton equivalent units

Register at: www.ascon2014conference.org
Celebrate the 100th Anniversary of the Utah Section of ASCE and Be Part of the History

In 2015-2016 we will celebrate the 100th Anniversary of the Utah Section of ASCE. It will be a time to be proud of our achievements in the State of Utah. We forming the planning committee with members from around the state. We are planning to prepare a book with pictures showing a 100 projects during that 100 year period. This is an opportunity to show of the works of your companies. It will also include short interviews of some the senior members of our profession. This is your chance to nominate projects and interviews that should be included. For more information and to volunteer to for the planning committee please contact Stanley L. Klemetson, Ph.D., P.E. at sklemetson@uvu.edu or 801-368-6476.
Fast Track Our Section to Win $1,000!

The three Sections with the highest percentage of renewed members by December 12, 2014, will win a cash prize of $1,000!

Get into the Renewal Race today, pay your National and Section dues, and keep our Section on pace to win $1,000. Your renewal supports valuable local programs and is always appreciated!

Renew your ASCE membership by December 12, 2014 — and encourage fellow Section members to do the same!

Go to www.asce.org/finishline.

For contest rules, go to www.asce.org/finishline/rules.

To pay for your office, agency, or company with a single invoice/payment, contact memapp@asce.org.
We are looking for a few good ASCE members to meet with their elected officials at the next ASCE Legislative Fly-In
March 24-26, 2015
Arlington, VA & Washington, DC

Apply to attend

The program includes:

- Briefing sessions on key legislation active in Congress
- Training on lobbying and influencing your elected leaders
- Networking with your ASCE peers from across the country
- Tips on continuing relationships with your elected officials once you return home

The best participants are those interested in advocacy on behalf of ASCE and our Priority Issues, and who are willing to share their knowledge and skills with fellow ASCE members when they return home. Please help us recruit civil engineering advocates by sharing this information with ASCE members in your Section.

There is no registration fee to attend the Fly-In, but participants are responsible for their own travel expenses. A limited number of travel stipends are available (see below for details.) A cancellation fee of $125.00 will be charged to participants who cancel less than three weeks prior to the event start date (after March 3, 2015.)

Registration Process
Part 1: Application - deadline: December 1, 2014

ASCE members who are not members of the Public Policy Committee or one of its subcommittees must apply to attend the Legislative Fly-In. The application process helps to ensure even representation of ASCE Sections as well as strategic states and Congressional districts.

Applicants will be notified no later than December 18 of their acceptance, however only two applicants per Section will be approved until we have secured two applicants for every state, or until January 26, 2015, whichever comes first. After January 26, 2015, additional applicants may be approved as funds allow.

- Apply to attend

Part 2: Confirmation Registration - deadline: February 6, 2015

Once applicants are approved for participation, they will receive information on completing the confirmation registration process and making travel arrangements.

Limited Travel Stipends Available

Successful applicants will be notified by December 18, 2014 OR January 26, 2015 (see "Confirmation Registration" above). Please do not make non-refundable travel arrangements prior to receiving acceptance notification from ASCE. (Members of the Public Policy Committee and Subcommittees, Board of Direction and Region Governors will receive separate travel reimbursement information.)
We are closing out the 8th Annual Salt Lake Countywide Watershed Symposium with a unique learning opportunity.

In partnership with the Salt Lake County Watershed Restoration and Planning Program and the University of Utah’s Ecological Planning Center, we invite you to join us for this full-day workshop taught by national experts, David Hirschman and Bill Stack from the Center for Watershed Protection. The workshop is geared towards a broad audience of planners, engineers, landscape architects, developers, municipal public works departments, and ecologists.

Come ready to do hands on exercises, and learn about:

- Tools for watershed restoration - from the rooftop to the river
- The art and science of urban stormwater retrofit, with hands-on training
- Stream restoration's role in watershed restoration
- Large basin TMDLs: Lessons from the Chesapeake Bay and elsewhere
- How to score, rank and prioritize in context of a watershed plan

7.5 continuing education credits available for participants

Download the agenda, instructor bios, and registration information here.

Register online today!
The Civil Source is published at the beginning of each month. If you have something you would like to have published, please contact me.

Kimberly Scholes
ASCE Civil Source Editor
kscholes@pec.us.com

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