

March 2017

# ALASKA CAPITAL ENGINEERS

## Upcoming Events

- March Luncheon (3/17/17) - Greg Brands, PE, FNSPE, Immediate Past Director, Western & Pacific Region.
- April Luncheon (4/12/17) - Rod Dell"Andrea, Alaska Region US Forest Service

## Inside This Issue

1. Upcoming Events & Speakers
2. Vice President's Message
- 3-4. Project of the Year
5. Engineer of the Year
6. ASCE Infrastructure Report Card
4. ASCE News Briefs and Links
8. Information Shorts
9. MATHCOUNTS
10. New Branch Website
- 11-13. ACE Sponsors
14. Officer Information

## February Menu Lunch Buffet

March, 2017  
Catering by Abby's Kitchen

TBD



Contact Justin Kanouse or Mike Story to submit ideas for luncheon Speakers



# Vice President's Message

Dear Alaska Capital Engineers and Fellow Professionals,

In my opinion, the ACE Engineers Week Awards and Scholarship Banquet at the Baranof last month was a great success. A lot of planning and effort goes into putting on an event like this and I want to personally thank all that attended and/or helped organize the banquet, as well as the Banquet Scholarship Sponsors PND, Tetra Tech, DOWL, Haight & Associates; Corvus Design and PDC Engineers. Banquet highlights were:

- The keynote speaker Rear Admiral Michael F. McAllister, Commander, Seventeenth Coast Guard District, was interesting and entertaining.
- The selection for Outstanding Engineer of the Year is **Carl J. Uchytil, P.E.**. I was honored to get to introduce Carl who is well deserving of this recognition.
- The Infrastructure and Improvement Project of the Year winner was the **Statter Harbor Launch Ramp Facility**. Designed by PND for the City and Borough of Juneau Docks and Harbors.
- The Innovation and Design project of the year winner was the **Whittier Street Reconstruction**. Designed by DOWL for the City and Borough of Juneau.
- We watched the trailer for an IMAX film about engineering called "Dream Big", which is now playing in IMAX and Giant Screen Theatres. More information and the trailer can be viewed at <http://www.dreambigfilm.com/>.
- We also got MATHCOUNTS updates on the regional results and the upcoming State competition being held in Juneau on March 18<sup>th</sup> at UAS. A video of the 2016 finals was entertaining.

We have moved our luncheon this month to Friday, March 17<sup>th</sup> to take advantage of Greg Brands, PE, NSPE fellow, being in town. Greg is the Western & Pacific Region NSPE Director with a position on the NSPE board and will focus on Standards of Professionalism.

Please contact me or any of the other officers if you have any questions, ideas or concerns.

Michael C. Story, PE  
ASCE Juneau Branch Vice President

# 2016-2017 Project of the Year

## Infrastructure and Improvement

### Statter Harbor Launch Ramp

Designed by PND for the City and Borough of Juneau Docks and Harbors. Through a cooperative agreement with ADFG Sport Fish, the CBJ retained PND to plan, permit, design and administer construction for the Statter Harbor Improvements Project - Phase II. An extensive environmental assessment was first conducted in accordance with NEPA guidelines and community meetings were held over several years to solicit public comments. PND developed numerous concept plans in response to local and regulatory input and selected a preferred alternative, which was endorsed by all regulatory agencies, to carry forward to construction. This project constructed the second of four phases for Statter Harbor. Phase II was recently completed and includes nearly 150,000 cubic yards of fill placed over wick drain stabilized soils, to create a 4.5 acre parking and marine recreation facility designed to CBJ and Sport Fish standards and conforming to all ADA accessibility requirements. The design included 3,700 tons of ACP pavement, 4,000 linear feet of curb and gutter, 2,000 linear feet of storm drain, water services, sewer force main for future restroom, a concrete marine seawall, a seawalk with covered shelter and a multitude of landscape features which make the facility a fully functional and aesthetically pleasing venue for the developing Auke Bay area. Construction was specifically sequenced over two seasons to allow sufficient time for soft ground modifications, surcharge fill and site paving to be completed just in time to allow partial utilization of the new facility for the 2016 Golden North Salmon Derby, with the remaining work substantially completed by year end.



# 2016-2017 Project of the Year

## Innovation and Design

### Whittier Street Reconstruction

The Innovation and Design project of the year winner was the **Whittier Street Reconstruction**. Designed by DOWL for the City and Borough of Juneau. The Whittier Street project reinforces the City and Borough of Juneau's position as a welcoming Capital City by providing safe and efficient access to the flagship structure of the Willoughby Arts District, the \$140 million State Library Archives and Museum building (SLAM). Whittier Street took a beating during SLAM construction, and road reconstruction provided the opportunity to improve pedestrian amenities and address engineering shortcomings. Improvements include white LED lamps that direct light onto the sidewalk and street, creating a warm and inviting space for pedestrians while improving visibility for drivers. Curb bulb-outs shorten mid-block crosswalks, increasing sidewalk depth and protecting driveway sight distances. Improvements have been noticed by the citizens working in the area, such as Bill Legere at KTOO. "Now, for the first time in a long time, I see people enjoying themselves rather than just passing through – walking dogs, spending time on the SLAM's plaza, waiting for the bus, stopping at the food trucks." Parks and Recreation Director Kirk Duncan oversees Centennial Hall and Zach Gordon Youth Center. He said, "The new street lighting is extremely attractive and effective...The design is awesome and the contractors working on the job were easy to get along with...Well done to all concerned."



# 2016-2017 Engineer of the Year

## Carl J. Uchytíl P.E.



Carl was raised in Iowa and graduated from the Coast Guard Academy in 1984 with a degree in Marine Science. In 1992, he received his Master's degree in Ocean Engineering from the University of Rhode Island, which included a thesis on aqueous disposal of dredge material. He served 27 years in the Coast Guard in a variety of roles in civil engineering, aboard cutters and senior staff positions retiring as a captain. His engineering roles included 4 years at the Coast Guard Civil Engineering Unit in Miami in charge of maintenance and repairs of aids-to-navigation and lighthouses in SE United States and the Caribbean. He served 5 years at the Coast Guard Facility Design Construction Center in Seattle as a project manager and planner for large recapitalization and improvement projects. Carl served multiple tours aboard polar icebreakers, operating in both the Arctic and Antarctic and was a member of the POLAR SEA in 1985 which completed the first solo circumnavigation of North America.

Upon retirement in 2011, Maria and Carl elected to remain in Juneau and assumed the role of the CBJ Port Director. Under his leadership, CBJ Docks & Harbors have successfully completed or partnered in projects which have included \$23M at Statter Harbor; \$16M at Douglas Harbor; \$10M at Aurora Harbor; and \$70M at the downtown docks. CBJ Docks & Harbors have received project recognition at each Engineers Week Banquet since 2012. Carl remains active in ASCE and is a past Juneau Branch President and currently serves as the Alaska Section Vice President. He authored the ports & harbors segment of the recently released Alaska Infrastructure Report Card. Carl is a registered civil engineer in Florida and Alaska. He is the President of the Alaska Association of Harbormasters & Port Administrators, Chair of the Cathedral Renovation Committee and member of the Cathedral Pastoral Council. Married to Maria, they have four children Nicholas, Dana, Carl Patrick and Claire.



# ASCE to roll out Alaska Infrastructure Report Card



Last month, ASCE released the first Report Card for Infrastructure for the State of Alaska. Overall the state earned a C-. Learn more about Alaska's Infrastructure Report Card by following this links.

<https://www.youtube.com/watch?v=4TdPpjevNSE>

<http://www.infrastructurereportcard.org/state-item/alaska/>

ASCE also released a nation wide report card, which earned a D+. Get the full story below.

<http://www.infrastructurereportcard.org/>

### Alaska Infrastructure Grades

AVIATION	BRIDGES	DAMS
DRINKING WATER	ENERGY	MARINE HIGHWAYS
PORTS	ROADS	SOLID WASTE



# News Briefs



## [ASCE's New Infrastructure Report Card: Another D+, But Solutions Available](#)

March 9, 2017

ASCE's 2017 Infrastructure Report Card, released Thursday, offers the nation both bad news and good news. The bad is the average grade, D-plus, has not changed since the last Report Card four years ago, reflecting

[Read more >>](#)

## [Critics Applaud 'Majestic' Dream Big Film](#)

March 8, 2016

Dream Big is already scoring well on the Tomato-Meter. The Rotten Tomatoes website collects film reviews and separates them into positive (fresh) and negative (rotten). Dream Big: Engineering Our World checks in this week at...

[Read More >>](#)



## Professional Development Hours

The ASCE Juneau Branch will provide electronic continuing education development hour certificates for those who are interested in tracking development hours received by attending the Alaska Capital Engineers Luncheons to hear speakers present on engineering topics. Certificates can be found on the branch webpage <http://branches.asce.org/juneau/>

## NSPE Statewide Meeting

Mark Your Calendars: March 17-18, 2017 Statewide Meeting of the Board for the Alaska Chapter of the National Society of Professional Engineers is scheduled to be held in Juneau in the Spring. Stay tuned for more details. Banquet and installation of Statewide Officers at the Baranof Hotel on March 18. Save the dates, come and network with Officers from around the State of Alaska.

## Engineer of the Year and Project of the Year

Congratulation to our winners of Engineer of the Year and Project of the Year. Remember to keep an eye out for EOTY and POTY nominations for the 2017-2018 award.







The Alaska State MATHCOUNTS Competition will be held in Juneau this year at the University of Alaska Southeast Egan Library Facility on March 18, 2017. If you are interested in volunteering please contact Doug Murray, State Co-Coordinator and SE Coordinator at 780-6151 or [dougmurray@pdceng.com](mailto:dougmurray@pdceng.com).

***MC Problems of the Week:***

Warren is throwing a pie party for his entire school to celebrate the occasion. He figures out that to feed all his guests and have a good variety of pie flavors, he should make 15 pies. The recipe he is using calls for  $2\frac{1}{4}$  cups of flour per pie crust. He only has 1 cup of flour in his kitchen, so he will need to buy more. Flour is sold in 5 pound bags. To figure out how many bags of flour he needs to buy, he weighs the 1 cup of flour he has. The 1 cup weighs 4.8 ounces. To make all 15 pies, how many bags of flour does Warren need to buy?

\*Answer see page 14



# New Branch Website

The Juneau Branch of ASCE has a brand new website. Bookmark this website for easy access to the events calendar, PDH certificates, new and archived newsletters, contact information and much more.

For questions or concerns regarding the Juneau Branch ASCE website please contact Ethan Roemeling



<http://branches.asce.org/juneau/>



# Thanks to our ACE Sponsors

*Partnering with you,  
finding creative solutions  
for tomorrow's energy  
challenges.*



526 Main Street  
Juneau, Alaska  
99801  
907-586-9788

Serving Southeast Alaska since 1980.



**Aurora Harbor Rebuild, Juneau**



**USCG Rescue 21 AK Remote Sites**



**ENGINEERS, INC.**

9360 Glacier Hwy, Ste. 100, Juneau, AK 99801  
Phone 907.586.2093 Fax 907.586.2099  
[www.pndengineers.com](http://www.pndengineers.com)

**Innovative  
Design  
Solutions**

Engineering Services: Civil, Structural, Contract Administration, Marine Facilities, Geotechnical, Planning, Permitting, Surveying, Hydrology, Coastal Engineering, Environmental, Construction Engineering Support, Transportation and Recreational Facilities



# Thanks to our ACE Sponsors



PLAN • DESIGN • CONSTRUCT




Planning | Survey | Geotechnical | Civil | Structural | Mechanical | Electrical | Fire Protection


**PEOPLE • SERVICE • INTEGRITY • INNOVATION**  
Anchorage | Fairbanks | Juneau | Palmer | Soldotna [www.pdceng.com](http://www.pdceng.com)



*Serving Alaska for more than 50 years.*  
[dowl.com](http://dowl.com)



Environmental & Land Development  
Water / Water Resources  
Transportation  
Civil  
Geo-Construction



**DOWL**  
ANCHORAGE FAIRBANKS JUNEAU KETCHIKAN KODIAK



# Thanks to our ACE Sponsors



**Chilkat Surveying &  
Mapping, LLC**  
Joshua Ivaniszek, PLS, CFEDS  
Manager

10654 Porter Lane  
Juneau, Alaska 99801



**TETRA TECH**

#### SERVICES

- Water & Wastewater
- Water Resources
- Waterfront Facilities
- Building Facilities – LEED
- Fisheries Habitat & Hatchery Engineering
- SCADA & Control Systems

#### CONTACT:

Don Beard, PE  
217 2nd Street, Suite 207, Juneau, AK 99801  
907-586-6400

**TETRA TECH ALASKA, LLC**

SERVING ALASKAN COMMUNITIES FOR OVER 40 YEARS

[www.tetratech.com](http://www.tetratech.com)



Providing Professional Project Management and  
Inspection Services in Southeast Alaska for over 30 years.



175 South Franklin St, Suite 300 Juneau, Alaska 99801

Phone: 907.586.2100 | email: [we@wileng.net](mailto:we@wileng.net) | [www.wileng.net](http://www.wileng.net)



**Juneau Chapter**

*Alaska Society of Professional Engineers*

## Membership and Renewal

Thank you for your continued membership and support for ASCE and NSPE. Our professional organizations provide a great opportunity to network with other members of the engineering profession. Select the links below for society membership information.

[ASCE Membership Information](#)

[NSPE Membership Information](#)

TO SUPPORT  
ALASKA CAPITAL  
ENGINEERS,  
CONSIDER  
NEWSLETTER  
SPONSORSHIP.  
CONTACT JUSTIN  
KANOUSE FOR  
MORE  
INFORMATION.

## **2016-2017 Alaska Capital Engineers Officers**

### **ASCE**

President - Justin Kanouse, EIT  
Vice President - Mike Story, PE  
Treasurer - Matt McGuan, PE  
Secretary - Ethan Roemeling, EIT  
Past President - Sam Kito III, PE  
Emeritus - Don Gotschall, PE

### **Special Committees**

DiscoverE Week - Please Volunteer  
Halibut Feed - Please Volunteer

### **ASPE - Alaska Society Contacts**

Past President - Brad Fristoe, PE  
President - Angela Smith, PE  
President Elect - Leora Houtary, PE  
Secretary - Jordan Martin, EI  
Treasurer - Soo Choi, PE  
NSPE House of Delegates - Michael Dean, PE  
Anchorage Chapter Director - Joe Taylor, PE  
Fairbanks Chapter Director - Frank Wuttig, PE  
Juneau Chapter Director - Darrell Wetherall, PE

*Answer to MC Problems of the Week:*  
2 bags

