

April 2018

ALASKA CAPITAL ENGINEERS

Upcoming Events

April Luncheon (4/11/18) – AEL&P,
Roger Healy, PE, CBJ Director of
Engineering and Public Works

May Luncheon (5/9/18) – AEL&P,
Marc Luiken, Commissioner, Alaska
Department of Transportation and
Public Facilities

Halibut Feet (6/1/18) – Sandy
Beach

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November Menu Lunch Buffet

April 2018
Catering by Abby's Kitchen
\$15 per person
AEL&P

Contact Mike Story to submit ideas for
luncheon Speakers

NSPE Juneau Chapter Director's Message

Alaska Capital Engineers,

I hope everyone has been enjoying the streak of good weather we've been experiencing this spring. It's been another busy month for engineering with the halibut feed and summer hiatus right around the corner!

The Alaska Society of Professional Engineers and Alaska Engineering Education Foundation held their annual board meeting in Anchorage on March 23 & 24 to coincide with the statewide MATHCOUNTS competition at UAA. While Juneau didn't place, they are to be commended for their hard work and competitive spirit. Congratulations to Romig Middle School and their coach, John Bruce, for taking the top team spot. As the coach of the 1st place team, John, and the top four students in the individual competition will represent Alaska at Nationals. The top 4 Mathletes are: 1) Camden Armstrong, Romig; 2) Alex Loomis, Romig; 3) John Wellman, Goldenview Middle School, and 4) Hayden Hanson, Kenai Middle School. Good luck!

Mitchell Brysen of JDHS not only won the \$500 ASPE Juneau Chapter scholarship for 2018 but landed the \$1,500 ASPE State scholarship as well. Congratulations, Mitchell, and good luck on your engineering endeavors!

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NSPE Juneau Chapter Director's Message (Continued)

(Continued from Previous Page)

Hopefully folks were able to make it out to STEM Night at Thunder Mountain High School last week. Another great opportunity to help inspire kids to learn about our field is coming up the evening of our luncheon. Harborview School is hosting Family Engineering Night on Wednesday, April 11th, from 5:30 – 7:00 PM. They are looking for engineers to help. Contact Jennifer for more information: jennifer.thompson@junueaschools.org or 957-2456.

We all understand the value of our professional license. Please consider joining NSPE and/or renewing your membership. Serving as an ASPE Juneau Chapter officer is a great way to give back to the community, the profession, and your fellow ACE engineers. The President, VP, and Secretary/Treasurer positions are all available. ACE needs you!

We'll see you at the luncheon this Wednesday.

Sincerely,

Darrell Wetherall, PE
ASPE State Board - Juneau Chapter Director



April Luncheon

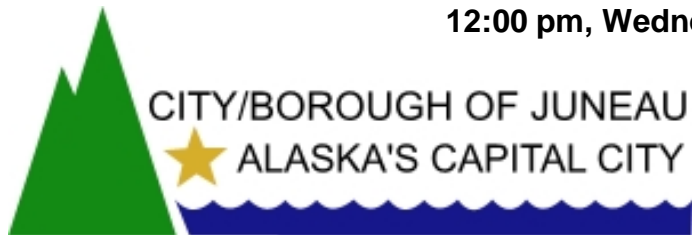


Roger Healy, P.E., is the Director of Engineering and Public Works for the CBJ. A University of Alaska Fairbanks Civil Engineering graduate, Roger has worked for both the CBJ and the Alaska Department of Transportation and Public Facilities over the span of his public service career. In his current position as Director, Roger oversees the divisions of Engineering, Recycleworks, Water and Wastewater Utilities, Streets, Fleet, and Transit.

He very much enjoys being part of the team for planning, design, construction, and operations of the infrastructure and facilities for Juneau's residents and visitors.

Roger is retiring at the end of this month from leading the 130 employees of the City and Borough of Juneau's Public Works & Engineering Department. Join Alaska Capital Engineers in thanking him for his service and listening to his perspective on CBJ issues as he passes the baton.

12:00 pm, Wednesday, April 11 at AEL&P



Alaska Capital Engineers' Halibut Feed

Date/Time:

Friday, June 1, 5-7 pm

Location:

Log cabin at Sandy Beach
(Savikko Park)

Thanks to Sandy
for providing the halibut!



April 11 Harborview Family Engineering Night

Here's yet another opportunity to inspire the next generation of engineers. Harborview is hosting a "Family Engineering Night" to inspire children from prekindergarten to the 5th grade.

Jennifer Thompson is looking for engineers of all kinds who enjoy working with children. She has a "kit" that includes activities, directions on cards and follow up extensions for families to try. These are the types of activities she's suggesting: bridge building and testing, marble rolling challenges, puff mobiles, snaps & circuits, coding, tower building/design, design of water & plumbing, architecture, and exploring light and sound.



Jennifer can be reached at jennifer.thompson@junueaschools.org or 957-2456. She's looking forward to hearing from some engineers who would like to participate **Wednesday night, April 11, from 5:30 to 7.**

March 28 Thunder Mountain STEM Night Recap



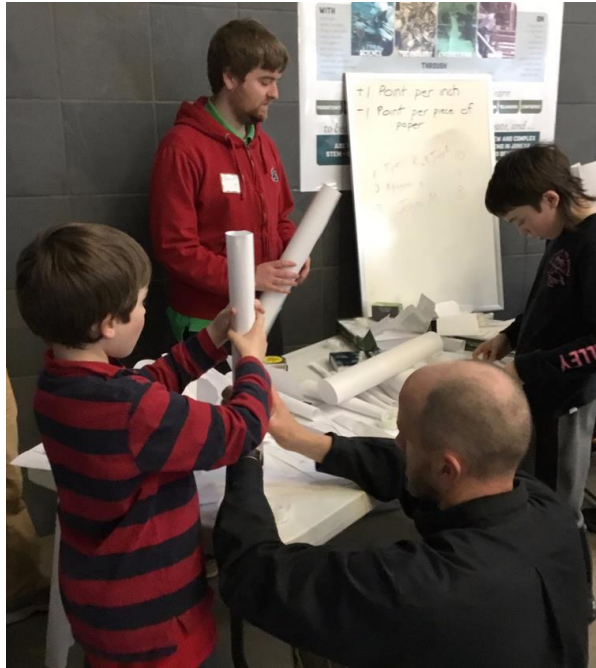
Designing Trebuchets: Darren Snyder, 4-H Cooperative Extension

From the Juneau STEM Coalition's Brenda Taylor:

Many thanks to Alaska Capital Engineers for your support of community/schools collaboration. It's exciting to see the growing awareness among families, teachers, and school administrators about the value of thoughtful, intriguing and meaningful STEM experiences for children.

In conjunction with the Discover Tech engineering exhibit at the Valley Public Library, the Juneau STEM Coalition and JSD teachers hosted a STEM Night for K-5 Families. The March 28th event was hugely successful: nearly 50 dedicated community members offered hands-on STEM experiences for about 400 kids and families. Families explored a wide range of activities from designing (popsicle stick) catapults or paper towers to investigating acids and bases to analyzing compost under a microscope to figuring out math puzzles. Special thanks to the engineers who engaged kids in engineering challenges: Andrew Wells, from AK DOT&PF, and Janice Simmons, from PDC Engineering. The main complaint was that there was not enough time for kids to explore as many activities as they wanted to. We can't "fix" that, but maybe the presenters would be willing to stretch a little longer....

March 28 Thunder Mountain STEM Night Recap (Continued)



(Continued from Previous Page)

STEM education specialists followed up on Thursday and Friday with discussions and demo lessons for district principals and teachers. Next steps include helping teachers to understand and introduce engineering “habits of mind.” If anyone is interested in helping to organize STEM Night 2019, present an activity then, or get involved in other ways to bring more STEM experiences to more Juneau children, both in and outside of school, please check out the Juneau STEM Coalition website and/or email us at juneaustemcoalition@gmail.com.

Finally, a huge thank you to the sponsors whose funding made snacks, “STEM goodie bags,” and the specialists’ visits possible: AELP, FOSS Scientific, and JEDC.

Brenda Taylor, Juneau STEM Coalition

Paper Towers: Andrew Wells, AK DOT&PF

March 28 Thunder Mountain STEM Night Recap (Continued)



Block Stacking Challenge: Andrzej Piotrowski, UAS



How to Make an Avalanche: Kanaan Bausler, AEL&P Avalanche Forecasting

Juneau STEM Coalition



The Juneau STEM Coalition is a volunteer community group whose mission is to support Juneau to develop lifelong Science, Technology, Engineering, and Math (STEM) skills. <https://juneaustem.org/>

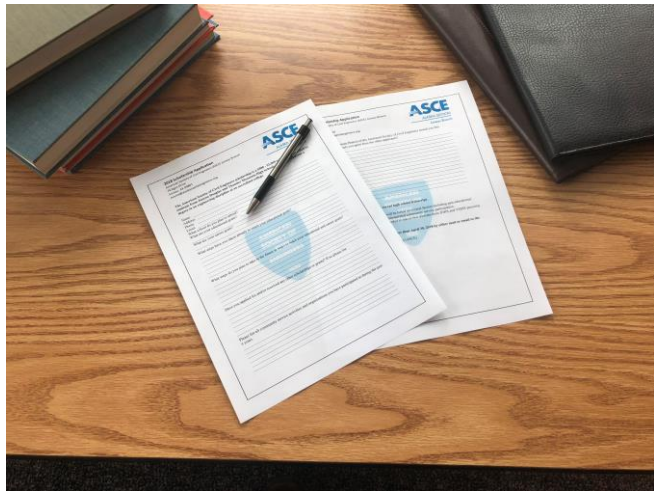
We are a diverse group of people under a loose “STEM” umbrella. We seek to effect incremental and transformational change within the Juneau School District. We want to support our students to be innovative, collaborative, empathetic, resourceful, and persistent now and as adults. We want them to struggle – in the best sense of the word – with challenging and intriguing projects that integrate in real and meaningful ways across the traditional academic disciplines and throughout the Juneau community. We want them to speak up for themselves and for others.

STEM education is associated with many beneficial qualities, including inquisitiveness, critical thinking, creativity, problem solving, grit, collaboration, and innovation.

The Juneau STEM Coalition is working with teachers and STEM experts to bring real-life connections into Juneau classrooms, via [S.E.E. \(SouthEast Exchange.\)](#)



ASCE Juneau Branch Scholarship



The American Society of Civil Engineers Juneau Branch Scholarship is a **\$500 scholarship** awarded to students from Juneau Douglas and Thunder Mountain High Schools intending to pursue a degree in an engineering discipline at an accredited college.

Selection will be based on several factors including past educational performance, engineering goals and demonstrated community service participation. \$500 scholarships may be awarded to one or two students from JDHS and TMHS pursuing engineering degrees. The scholarships will be paid directly to the institution where the student matriculates.

Applications should be submitted no later than **April 30, 2018**. An application form can be downloaded from the ASCE Juneau Branch website: <http://branches.asce.org/juneau/resources>



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/>

ASCE Juneau Branch Website

Bookmark this website for easy access to the events calendar, PDH certificates, new and archived newsletters, contact information and much more: <http://branches.asce.org/Juneau/>

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

AccessEngineering

Developed in partnership with McGraw-Hill Education, ASCE members now have FREE and unlimited usage of this award-winning engineering reference tool: www.asce.org/AccessEngineering



ASCE News Brief



The New Orleans Branch screening of Dream Big at the University of New Orleans drew 1,300 students. PHOTO: Malay Ghose Hajra



ASCE Crowdsourcing Off to Strong Start Toward Ambitious Dream Big Goal

March 22, 2018

ASCE members have embraced Dream Big: Engineering Our World since the premiere night more than a year ago.

They've hosted viewing parties for the giant-screen film. They've hosted community events, connecting students to civil engineering role models. They've hosted outreach programs, complete with hands-on activities and lessons related to the movie.

In short, Society members and Dream Big are inspiring an entire generation to get excited about the potential of engineering careers.

So as Dream Big enters a new phase of outreach, it should not surprise anyone that members are again seizing the initiative. The Society has a new goal for 2018: placing a DVD copy of the acclaimed documentary in every U.S. public school.

ASCE has taken a crowdsourcing approach, and already member groups have stepped up.

[Read More >>](#)



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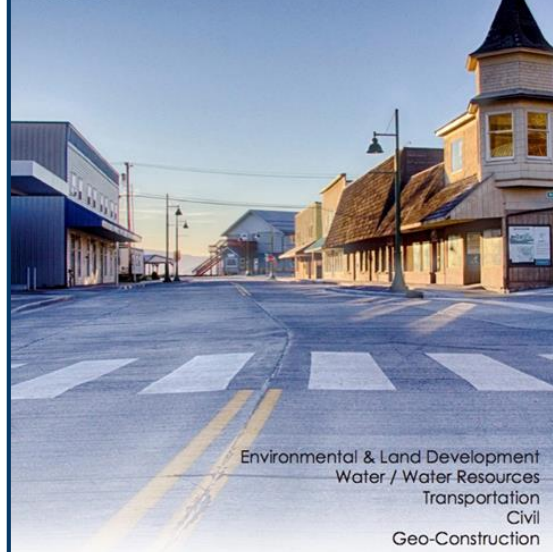
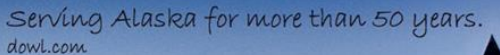
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Membership and Renewal

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 sponsoring this newsletter. Contact Mike Story for more information.

2017-2018 Alaska Capital Engineers Officers

ASCE

President - Mike Story, PE
Vice President – Matt McGuan, PE
Treasurer - Ethan Roemeling, EIT
Secretary - Eric Antrim, PE
Past President - Justin Kanouse, EIT
Emeritus - Don Gotschall, PE

Special Committees

DiscoverE Week - Please Volunteer
Halibut Feed - Please Volunteer

ASPE - Alaska Society Contacts

Past President – Leora Houtary, PE
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President Elect – Chris Miller, PE
Secretary - Jordan Martin, EI
Treasurer – Michael Spano, PE
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