

ALASKA CAPITAL ENGINEERS

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UPCOMING EVENTS

Virtual Presentation with John Hudson on stormwater best management practices

Date: 12/9/2020

Time: 12:00pm

Place: WebEx

MESSAGE FROM BRANCH SECRETARY SEAN KELLY

Dear Alaska Capital Engineers,

I'd like to take this opportunity to introduce myself as the newest member of the ASCE Juneau Branch Board, serving as secretary.

I recently graduated from the Colorado School of Mines in the spring of 2019 and began my Civil Engineering career at PDC Engineers. Upon being hired at PDC Engineers I was fortunate enough to work with **Ethan Roemeling**, last years ASCE Juneau Branch President, for a while while I adjusted to working as a full time EIT.

I was born and raised in Juneau and love it here.

When I am not working I try my best to take advantage of whatever season of the year it is. I love to get out and play in the snow, hopefully the snowpack can recover from this crazy amount of rain we've had. In the warmer months fishing, hunting, camping and hiking is the name of the game and as we all know Southeast Alaska provides some of the best opportunities for these activities.

I would also like to mention the record breaking rain we've had this week. I know that it has caused a tremendous amount of damage and hardship for people all over Southeast Alaska. I hope that the engineers across the region will be able to help our communities back on their feet quickly after such large damage to infrastructure, in particular Haines, Alaska.

I look forward to meeting all of you that take interest in this organization.

Thanks,

Sean Kelly, EIT

Juneau Branch Secretary



PRESENTATION SUMMARY

The Best Path: Stormwater Best Management Practices

Urban stormwater runoff is typically managed by directing runoff to stormwater infrastructure like curb and gutter, catch basins, and finally to pipes and ditches, which deliver the runoff to nearby water bodies. Concentrating runoff in this way can cause flooding and degrade water quality and aquatic habitat. This presentation will review stormwater best management practices that address flow control and runoff treatment and highlight ongoing efforts by the Southeast Alaska Watershed Coalition and others to address stormwater impacts on the Lower Jordan Creek Watershed.

SPEAKER BIO

John Hudson is a restoration biologist with the Southeast Alaska Watershed Coalition. John has a Masters in Fisheries Science from the University of Michigan and over 25 years of experience in the fields of fisheries, aquatic ecology, and habitat restoration in Southeast Alaska. During the past 10 years, John has been involved in stormwater mapping, assessment, planning, design, and implementation in the Lower Jordan Creek watershed.

2020-2021 CALL FOR NOMINATIONS DUE JANUARY 31ST, 2021

IT'S TIME TO THINK ABOUT OUR HARD-WORKING FRIENDS AND COWORKERS AND THEIR PROJECTS! THESE AWARDS RECOGNIZE A JUNEAU ENGINEER THAT HAS DEMONSTRATED EXCELLENCE IN ENGINEERING WITHIN THE STATE OF ALASKA AND THE LOCAL COMMUNITY, AS WELL AS A PROJECT IN ALASKA THAT HAS DEMONSTRATED EXCELLENCE IN ENGINEERING SKILL THROUGH THE DESIGN, COORDINATION, AND EXECUTION OF THE CONSTRUCTION. PLEASE CONSIDER NOMINATING AN ENGINEER AND/OR PROJECT FOR THIS YEAR'S AWARDS. NOMINATION FORMS ARE POSTED ON THE ASCE JUNEAU BRANCH WEBSITE.

ASCE ALASKA SECTION, JUNEAU BRANCH OUTSTANDING ENGINEER OF THE YEAR

REQUIREMENTS:

- THE NOMINEE SHALL BE A JUNEAU RESIDENT, HAVING PRACTICED AS A LICENSED ENGINEER WITHIN THE STATE OF ALASKA FOR THE MAJORITY OF 2020
- THE NOMINEE SHALL HAVE PRACTICED WITHIN THE STATE OF ALASKA FOR 3 YEARS

ASCE ALASKA SECTION, JUNEAU BRANCH OUTSTANDING PROJECT OF THE YEAR

REQUIREMENTS:

- THE PROJECT MUST HAVE BEEN CONSTRUCTED IN ALASKA, WITH THE MAJORITY OF THE DESIGN WORK HAVING BEEN PERFORMED BY JUNEAU ENGINEERS
- THE PROJECT MUST HAVE BEEN COMPLETED AND PUT INTO SERVICE DURING 2020-2021. INDIVIDUAL PHASES/SEGMENTS OF MULTIPLE-PHASE PROJECTS MAYBE SUBMITTED UPON COMPLETION OF THE PHASE BEING NOMINATED. ONLY THE PHASE BEING NOMINATED MUST MEET THESE GUIDELINES
- NO PROJECT OR PROJECT PHASE/SEGMENT MAY BE RE-NOMINATED AFTER RECEIVING AN AWARD

DECEMBER 2020

DREAM BIG, ENGINEERING OUR WORLD

All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative, and amazing ways. Dream Big: Engineering Our World, a giant-screen film about engineering, takes viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audiences witness how today's engineers are shaping the world of tomorrow.



MATH COUNTS



Members of last year's Southeast regional MATHCOUNTS winning team from Dzanik'i Heeni Middle School. From left: coach Mary Borthwick, Marina Lloyd, Krishna Bathija, Addy Mallott and Edward Hu. (Kevin Gullufsen | Juneau Empire)

MATHCOUNTS will be taking place **virtually** next year on February 6th, 2021.

The MATHCOUNTS Foundation is a 501(c)3 non-profit organization that reaches students in grades 6-8 in all US states and territories with extracurricular math programs. More than a quarter million students participate each year.

<https://www.mathcounts.org/>

For information on MATHCOUNTS in Juneau, or to volunteer, contact Doug Murray (doug@murray@pdcceng.com)

HOUSTON-AREA COMMUNITY EXPANDS MAJOR STORMWATER DETENTION PROJECT

By Jay Landers

November 30, 2020

Clear Lake City Water Authority's recent completion of the second phase of a major flood control project in the Houston area has resulted in additional flood protection for Clear Lake City, a master-planned community located in southeast Harris County, Texas. Comprising five phases, Exploration Green — as the project is known — entails the conversion of a former golf course into a 178-acre stormwater management project that also provides natural habitat, walking trails, and other amenities. Upon completion in late 2021, Exploration Green will consist of five linked detention ponds that will protect between 2,000 and 3,000 homes from flooding associated with a 100-year flood event.



[Read More>>>](#)

INFORMATION SHORTS

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 presentations 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 Janice Wells.

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

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](#)

2020-2021 ALASKA CAPITAL ENGINEERS OFFICERS	
<p>ASCE</p> <p>President – Lucas Chambers, PE Vice President – Janice Wells, EIT Treasurer – Micki Minsch, EIT Secretary – Sean Kelly, EIT Past President – Ethan Roemeling, EIT Emeritus – Matt McGuan, PE</p> <p>Special Committees</p> <p>School Outreach/STEM Coordinator - Please Volunteer Dream Big Coordinator - Please Volunteer</p>	<p>ASPE - Alaska Society Contacts</p> <p>Past President – Chris Miller, PE President – Craig Blesdoe, PE President Elect – Vacant Secretary - Leora Houtary, PE Treasurer – Iain McPherson, PE NSPE House of Delegates - Brad Fristoe, PE Anchorage Chapter Director – Craig Blesdoe, PE Fairbanks Chapter Director - Frank Wuttig, PE Juneau Chapter Director - Darrell Wetherall, PE</p>



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We always have room for more talent. If this position isn't the right one for you but you still feel like you'd be a great addition to our team, visit www.pdceng.com/open-positions and let us know what position you're interested in. We'll make sure your information gets into the right hands.



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Civil Engineer

Position Opening

PDC, a **RESPEC** Company, is seeking a civil design engineer to join our full-service engineering team! We design innovative world-class projects utilizing state-of-the-art technologies. Experience providing technical leadership within civil engineering and diversified knowledge of engineering practices is a must. This is a management position for utility and site design projects; a great career opportunity for a dynamic, energetic individual with proven technical and leadership skills.

Qualifications/Skills:

- B.S. in Civil or Engineering
- Alaska Professional Civil Engineer License, or ability to obtain within one year
- 5+ years' of cold regions experience
- AutoCAD & Civil 3D proficiency
- GIS experience is a plus
- Able to manage team and contracts on multiple projects concurrently
- Detail oriented & well organized with demonstrated ability to meet deadlines
- Strong verbal & written communication skills

Compensation: Salary DOE. We offer competitive pay, excellent benefits (healthcare, retirement, disability & life insurance, paid time off, 10-holidays/year) and advancement opportunities, continuing education, and professional societies. PDC, a division of RESPEC, is 100-percent employee-owned.

This position is available in our Fairbanks and Juneau office. Submit your cover letter and resume to PDC Engineers, Attn: Human Resources, PO Box 32723, Juneau, AK 99803 or at jobs@pdceng.com.

Interviews are by appointment only. Open until filled.

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Ongoing Recruitment

We always have room for more talent. If this position isn't the right one for you but you still feel like you'd be a great addition to our team, visit www.pdceng.com/open-positions and let us know what position you're interested in. We'll make sure your information gets into the right hands.



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Professional Land Surveyor

Position Opening

PDC, a **RESPEC** Company, is seeking an experienced Professional Land Surveyor to join our full-service engineering team to lead and grow our Southeast Survey Department in Juneau, AK.

The successful candidate will be licensed as a Professional Land Surveyor (PLS) in the state of Alaska. Duties include establishing legal boundaries of properties, subdivision plats, Dept. Of Natural Resources plats (ASLS, ATS, Accretions). This position facilitates work for small to large projects and entails the ability to work on many type of survey works, collaborating with multi-discipline engineering staff, clients, and other invested individuals to review and coordinate findings; interprets survey data and calculates geodetic measurements to determine shapes, positions, and elevations of geomorphic and topographic features. Schedules, assigns, supervises work of survey parties, engages in collection, processing and mapping of survey data. Provides advanced professional, technical, day-to-day support, guidance, and input to staff and other team members. Prepares project submittals to ensure that project budgets are met and reviews each project upon completion for quality assurance.

Qualifications/Skills:

- Registered land surveyor in Alaska
- 5+ years of relevant work experience
- Proficient in Trimble Business Center and AutoCAD with Civil 3D desired
- Experience with GPS equipment, total station instruments, data collectors
- Boundary, control, Bathymetric, and topographic survey experience
- Thorough understanding of the principles, practices, and procedures of land surveying
- In depth knowledge of federal and state laws related to land surveying
- Excellent mathematical skills to conduct land survey analysis
- Strong verbal & written communication skills
- Ability to work on multiple projects concurrently and meet deadlines

Compensation: Salary depends on experience. We offer competitive pay, excellent benefits (healthcare, retirement, disability & life insurance, paid time off, 8-holidays/year) and advancement opportunities, continuing education, and professional societies. We are 100-percent employee-owned.

Submit your resume to PDC Engineers, Attn: Human Resources, PO Box 32723, Juneau, AK 99803 or at jobs@pdceng.com.

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DECEMBER 2020



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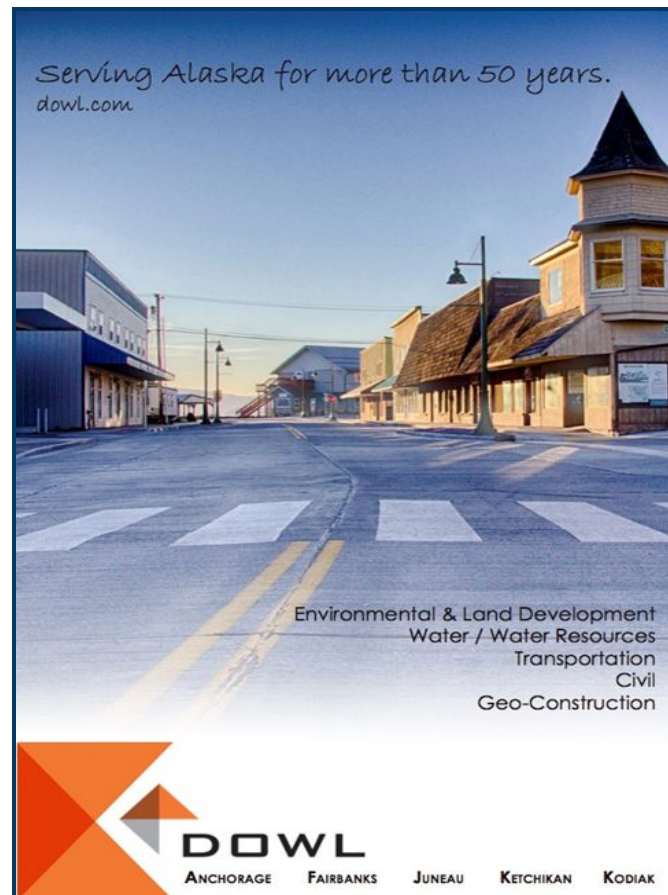
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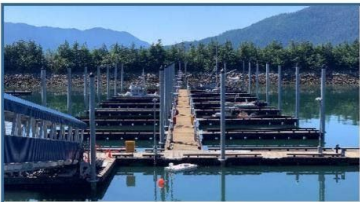
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