

ALASKA CAPITAL ENGINEERS

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UPCOMING EVENTS

Virtual Presentation with Tor
Anderzen on Alaska State
Report Card and Engineer
Tomorrow

Date: 1/13/2020

Time: 12:00pm

Place: WebEx

MESSAGE FROM BRANCH VICE PRESIDENT JANICE WELLS

Alaska Capital Engineers,

I hope you all had a wonderful holiday season!

2020 was quite the year, with many challenges. We had to go from in-person luncheon presentations to recorded, virtual presentations and test our technological knowledge. We've had to wear masks and socially distance. Although we aren't done with it yet, we are only moving closer to a new normal. It will be interesting to see what 2021 has in store for us.

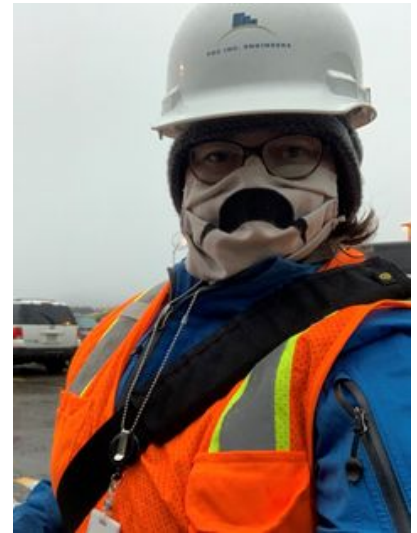
With the New Year, it is time to start making nominations for Project of the Year (POTY) and Engineer of the Year (EOTY) for 2020. Please send POTY and EOTY nominations to events@alaskacapitalengineers.org. The nomination forms can be found on the branch website. The deadline for nominations is January 31, 2021.

If you have any feedback, we'd love to hear from you. If there is a speaker you'd like to hear from or topic you'd like to know more about, let us know!

Stay safe and healthy,

Janice Wells

ASCE Juneau Branch Vice President



Alaska State Report Card and Engineer Tomorrow

Tor will give an update on the work to prepare our 2021 infrastructure report card. The first report card for Alaska was released in 2017 and has 9 sections: Airports; Roads; Bridges; Marine Highway; Ports and Harbors; Dams; Energy; Solid Waste; and Water and Wastewater. Overall the state's infrastructure earned a C-. For the 2021 report card we are adding sections for Rail, Schools, Transit and hopefully also Stormwater. First drafts were submitted in December and have been reviewed over the holidays, second drafts are due mid February. We are scheduled for society review in mid March. The current plans are to release the report card in May. The 2017 report card can be found at www.infrastructurereportcard.org/alaska

Engineer Tomorrow is an ASCE initiative based on the recognition that the knowledge, skills and attitudes outlined in the Civil Engineering Body of Knowledge (CEBOK 3) goes beyond the skills necessary to pass the PE Exam. The initiative is aimed at helping professionals to chart their personal path to attainment of the CEBOK through a combination of study and mentored experience.

A good resource to learn more is <https://www.asce.org/engineer-tomorrow/>

SPEAKER BIO

Tor Anderzen is a Senior Aviation Engineer at HDL Engineering Consultants LLC in Palmer Alaska. He has fifteen years of airport planning, design, and construction experience and is a licensed Professional Civil Engineer in Alaska and Montana. Tor is a naturalized US citizen. Tor has lived in the US since 2000, and Alaska since 2011. Tor and his wife Stefanie live in Palmer with their five children.

After a ten-year career as a land surveyor, Tor returned to school in 2002, and earned both Bachelor's and Master's Degrees in Civil Engineering at Michigan Technological University. After graduation in 2005 Tor has performed Planning, Design and Construction Administration services for several airports in the Midwest and northwest, and at many locations in Alaska.

Tor first joined ASCE through the student chapter at MTU in 2004, and has been active in ASCE since 2007 and has served as an officer in the Eastern Branch of the Montana Section, the Montana Section, the Anchorage Branch, the Alaska Section, and as a Region 8 Governor.

Tor is the committee chair for the 2017 and 2021 Alaska Section report card.

Tor serves on several society committees including: Committee on America's Infrastructure, the State Government Relations and Grassroots Committee, and the Committee on Preparing the Future Civil Engineer.



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

January 2021

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 Dzantik'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.com)

THE ASCE REPORT CARD ADVOCATES FOR INFRASTRUCTURE

By Jay Landers

November 4, 2020

Since its initial release in 1998, ASCE's Infrastructure Report Card has increased the visibility of infrastructure among the public and elected officials. At both the national and state levels, the report card has been used by ASCE members and others to advocate for infrastructure. Once largely ignored, the question of how best to upgrade and maintain public works around the country continues to gain prominence, increasing hopes that viable solutions will continue to be found.

[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 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

ASCE

President – Lucas Chambers, PE

Vice President – Janice Wells, PE

Treasurer – Micki Minsch, EIT

Secretary – Sean Kelly, EIT

Past President – Ethan Roemeling, PE

Emeritus – Matt McGuan, PE

Special Committees

School Outreach/STEM Coordinator - Please Volunteer

Dream Big Coordinator - Please Volunteer

ASPE - Alaska Society Contacts

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



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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.



www.PDCENG.com

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.

Anchorage | Fairbanks | Juneau | Palmer | Soldotna



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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.



www.PDCENG.com

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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The Department of Transportation and Public Facilities (DOT&PF) Southcoast Region Design & Engineering Services is seeking a professional Technical Engineer I/Architect I to join our team in Juneau and help our mission to *Keep Alaska Moving through service and infrastructure*.

This position functions as the Southcoast Region's Reconnaissance Engineer and assists planners with early project scoping and estimates. The Reconnaissance Engineer advances some projects to the point that a reconnaissance report can be finalized with recommended alternatives and then handed off to a design team. The position also supervises one engineering assistant and utilizes in-house staff or consultants to advance some projects through final plans, specs and estimate depending on workload.

The Working Environment you can Expect

This position reports to the DOT&PF, Southcoast Region, 7-mile office located in Juneau. You will be in a management role supervising the design of roads and airports in communities stretching from Adak to Kodiak and Yakutat to Ketchikan to meet the needs of our communities.

Desired Skills

- Experience with cost estimating on a large variety of transportation, marine, and airport civil engineering projects;
- Experience applying value engineering principles to recommend the best project alternative to advance;
- Ability to develop final plans, specifications and estimates for transportation related civil design projects;
- Good writing skills and ability to develop technical documents, such as Reconnaissance Reports, Design Study Reports, etc.;
- Familiarity with AK DOT&PF, FHWA, and FAA project development criteria

Minimum Qualifications

Registration as a professional engineer (PE) or professional architect, and two years of professional engineering or architectural experience as an Engineer I, Architectural Assistant III or higher with the State of Alaska, or the equivalent elsewhere.

Competitive Benefits

State of Alaska provides competitive health and retirement benefits.

- Medical / Vision / Dental Insurance
- Single or Family Coverage
- Different Cost and Coverage Options
- Life Insurance
- Disability Insurance
- Accidental Death & Dismemberment
- Generous leave accrual
- Holiday pay
- And More

The PERS / TERS retirement benefit is only available to permanent positions.

- Public Employees Retirement System (PERS)
- Matching employer contribution
- Employer contributions 100% vested after 5 years
- Alaska Supplemental Annuity Plan in lieu of Social Security
- Retirement health savings account contributions

Complete Job Listing

Workplace Alaska

<https://www.governmentjobs.com/careers/alaska>

Job Number 27427 / PCN 25-0118

Closes: 1/26/21

January 2021



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