ALASKA CAPITAL ENGINEERS

NOVEMBER 2020

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UPCOMING EVENTS

Virtual Presentation with Esther Babcock on Non-Intrusive Subsurface Assessment Technologies

Date: 11/18/2020

Time: 12:00pm

MESSAGE FROM BRANCH PRESIDENT LUCAS CHAMBERS

Dear Alaska Capitol Engineers and Fellow Professionals,

Although our past luncheons were a great opportunity to socialize in person, I hope that our online presentations provide an easier opportunity for more people to participate and allow us to provide a platform for presenters not located here in Juneau. On that note I am excited that this month we will be having Esther Babcock a geophysicist at Logic Geophysics & Analytics presenting on ground-penetrating radar in Alaska.

Also, it is that time of year to start thinking about nominations for the ASCE Juneau Branch Outstanding Engineer of the Year and



Outstanding Project of the Year nominations. Engineer of the Year nominees are required to be a Juneau resident, having practiced as a licensed engineer within the state of Alaska for the majority of 2020 and have practiced within the State for at least 3 years. Project of the Year nominees must have been constructed in Alaska, with the majority of the design work having been performed by Juneau engineers and the project must have been completed and put into service during 2020-2021.

There are a lot of outstanding engineers and projects out there so please do not wait to get your nominations in. All nominations must be received no later than January 31, 2021. Please contact one of the ASCE Branch Officers for a nomination form or if you have any questions about the awards.

As the new ASCE Juneau Branch President I would like to thank all of you for your continued support and participation in ASCE.

Sincerely,

Lucas Chambers, PE

Juneau Branch President



PRESENTATION SUMMARY

What Lies Below: Non-Intrusive Subsurface Assessment Technologies

Geophysical methods can provide insight into conditions and objects below the surface while reducing or eliminating the need for invasive, and expensive, drilling or excavating. These methods can locate buried objects, define subsurface geology, and delineate voids, among other things. Esther Babcock, geophysicist at Logic Geophysics & Analytics, will discuss ground-penetrating radar and other methods (seismic and resistivity) along with their capabilities as related to Alaskan projects and conditions.

SPEAKER BIO



Esther Babcock earned her M.Sc. in Environmental Science from the University of Arizona and her Ph.D. in Geophysics from Boise State University. Prior to graduate school, Esther served in the Air Force as an officer and pilot, including 62 combat missions in the single-seat A-10 in Afghanistan during Operation Enduring Freedom. After her military service, Dr. Babcock's geophysical work has focused on near-surface investigations for geotechnical and environmental applications, with a specialization in ground-penetrating radar and electrical methods. Esther's geophysical field experience spans the globe, from Alaska to Africa, from Antarctica to Canada. She currently owns and

operates Logic Geophysics & Analytics LLC, based in Anchorage, Alaska, and conducts field work across the state, from the North Slope to the Aleutian Islands.



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 6^{th} , 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 (dougmurray@pdceng.com)

LEADING IN A MULTI-GENERATIONAL WORKPLACE

By Samantha-Rose Hall October 27, 2020

Today, more Americans than ever are working past the traditional age of retirement. According to a 2019 report from the U.S. Census Bureau and Bureau of Labor Statistics, about 10.6 million people in the workforce are over age 65. That number is estimated to increase to 13 million by 2024.

Meanwhile, millions of new professionals are entering the workforce every year. Companies must now learn how to manage five different generations in the workplace.

ASCE Interchange Sponsored by CONTECH ENGINEERED SOLUTIONS

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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

ASCE

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

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





proHNS is Hiring (Civil Engineer)

This position, based in Haines, AK, will manage a variety of interesting projects and hone your skills in site development, production of construction drawings and specifications, design of utilities, and construction of government-owned facilities. Most of our projects include all aspects of civil engineering design through on-site construction inspection and contract administration. This job requires professionalism, out-of-the-box thinking, open communication, and a willingness to push the limits of one's expertise. For the right candidate, this is a position that allows for putting down lasting roots in Haines while also continuing to grow with proHNS.

Successful candidates will have at least five years of relevant professional experience, a bachelor's degree in civil engineering or related field, and an Alaska Professional Civil Engineer license (or ability to obtain within one year). Preferred skills include proficiency in AutoCAD Civil 3D and other engineering software applications, solid time management skills, and ability to produce accurate, high-quality work under deadline.

We offer competitive pay, paid personal leave, a SIMPLE IRA retirement program, eligibility for annual performance bonuses, a relocation stipend, and more. To learn more about the position, visit www.proHNS.com/careers. Submit your cover letter, resume, and references to solutions@proHNS.com.





Submit Resume & Cover Letter to:

Human Resources at iobs@pdceng.com

PDC is an Equal Opportunity Employer

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.

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/openpositions and let us know what position you're interested in. We'll make sure your information gets into the right hands.



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





Submit Resume & Cover Letter to:

Human Resources at jobs@pdceng.com

PDC is an Equal Opportunity Employer

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.

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/openpositions and let us know what position you're interested in. We'll make sure your information gets into the right hands.



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

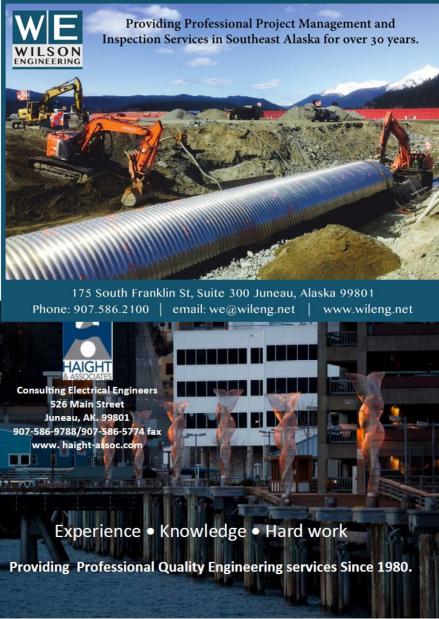
Compensation: Salary depends on experience. We offer competitive pay, excellent benefits (healthcare, retirement, disability & life insurance, paid time off, 8-holidays/year) and advancement opportunities, continuing education, and professional societies. We are 100-percent employee-owned.

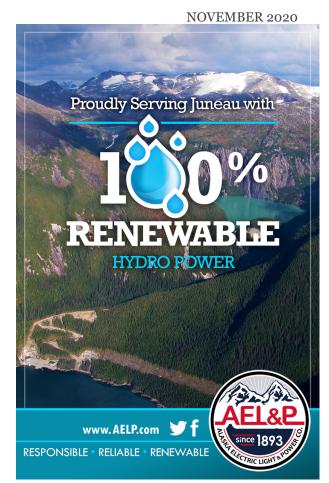
Submit your resume to PDC Engineers, Attn: Human Resources, PO Box 32723, Juneau, AK 99803 or at iobs@pdceng.com.

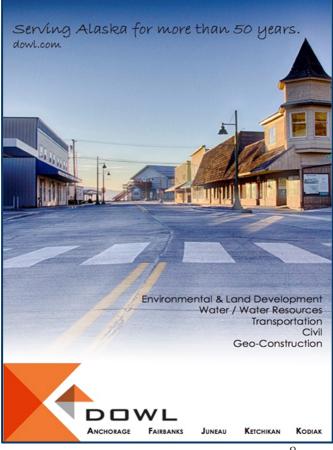
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Shoemaker Harbor, Wrangell



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