

ALASKA CAPITAL ENGINEERS

NOVEMBER 2019



Upcoming Events

November Luncheon

(11/13/2019)

Speaker: Brian Holst,

Juneau & Southeast AK

Economic Indicators

Report

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November Menu

Catered by Breeze In

\$20 per person

\$10 under 35 years old

Location: AEL&P

Conference Room

Contact Ethan Roemeling to submit ideas for luncheon speakers:

EthanRoemeling@pdceng.com

ASCE Juneau President Message



Hello Alaska Capital Engineers and Fellow Professionals,

As the 2019-2020 President for the Juneau Branch of ASCE I would like to thank all of you for your continued support and participation in ASCE. I would also like to encourage each of you to continue supporting our branch by attending our monthly luncheons and inviting other engineers that you work with or know to attend as well. Our officers work hard to organize events throughout the year and your participation is key to making those events a success. You will notice that our ACE newsletter has a new and refreshed look this month. This is thanks to our new Branch officer Micki Minsch who is serving as our Secretary this year. Micki will be responsible for compiling and posting the newsletters this year so if you have something you would like to see in the ACE newsletter please reach out to her.

At this month's luncheon we will be joined by Brian Holst the Executive Director of the Juneau Economic Development Council. Brian will be discussing the 2019 edition of the Juneau and Southeast Alaska Economic Indicators report. We have had several great presentations so far this year, but we are always looking for interesting and relevant speakers to present at our monthly luncheons. If you or someone you know would like to be a speaker at one of our upcoming luncheons, please reach out to one of our officers.

We look forward to seeing you at the Luncheon next week. Thanks!

Ethan Roemeling
ASCE Juneau Branch President

November Luncheon:

Wednesday November 13th, Noon to One at the AEL&P Conference Room



Mr. Brian Holst from the Juneau Economic Development Council will join us to discuss the 2019 edition of the *Juneau and Southeast Alaska Economic Indicators report*.

Speaker Biography

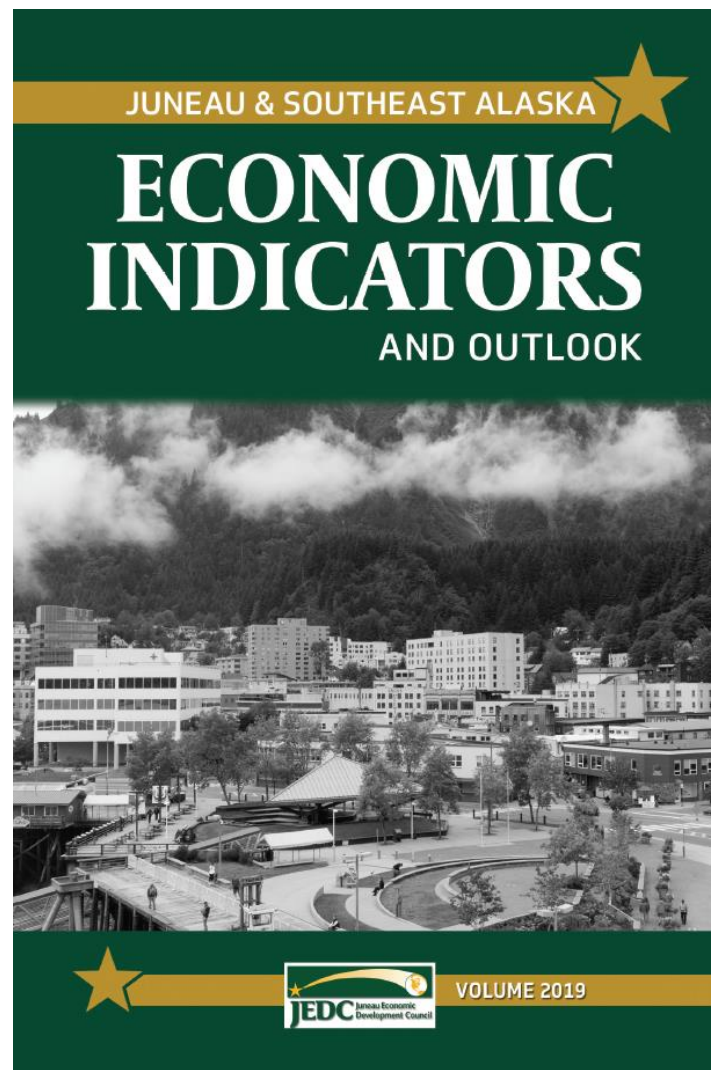
Brian serves as the Executive Director of the Juneau Economic Development Council (JEDC). Prior to joining JEDC, Brian worked in community and economic development for almost twenty years. His previous experience includes working with local and national stakeholders in challenging economic and political circumstances in the developing world, with extensive experience leading countrywide programs in Latin America and Eastern Europe.

Brian has directly managed the implementation of programs in micro-finance, home improvement lending, environmental planning, disaster mitigation and response, business support services and various construction efforts ranging from energy schools to roads.

Brian is a graduate of Juneau-Douglas High School and the University of Notre Dame. He served as a US Peace Corps Volunteer in small business development and has also worked as an international consultant and small business owner.

Economic Indicators Summary

The 2019 Edition of the Juneau & Southeast Alaska Economic Indicators (PDF) was developed by the Juneau Economic Development Council (JEDC), with the support of the City and Borough of Juneau and corporate partners, and is now available to the public. Through this and other research publications, the JEDC hopes to increase awareness and engage citizens in local and regional economic issues.



2019-2020 Call For Nominations

DUE JANUARY 31ST, 2020

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 2019
- 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 2019-2020. 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

Public Works & Engineering Director

Partially Exempt Full-Time Position

Position open until filled



The successful candidate will have expert level knowledge in management theories, principles and techniques, and the organization and administration of public works agencies. In addition, the successful candidate will possess strong oral and written communication skills, be skilled in building and maintaining effective working relationships with government officials and special interest groups, be able to resolve conflict and build consensus where there are differing opinions and interests, have a strong history of developing and implementing new programs or services to increase operational efficiencies, and the ability to lead a team of professional staff in delivering excellent services to the community we serve.

The successful candidate will have a Bachelor's Degree from an accredited college or university in Business Administration, Public Administration, Engineering, Environmental Science or a closely related field. In addition, candidates should have a minimum of five years of experience in the planning, construction, maintenance, or operations of public facilities, utilities, or transportations systems. At least three years of this experience must have been at a managerial level and must have included responsibility for supervising professional level staff. Registration as a Professional Engineer is highly desirable but not required. Special Note: The successful candidate must be able to travel to various locations within the City and Borough of Juneau to meet program needs and to fulfill the job responsibilities. When driving on City business, maintenance of a valid Alaska driver's license and satisfactory driving record is required.

For more information and directions on how to apply, visit the City and Borough of Juneau Website.

Deputy Port Engineer

Full-Time Position

Position open until filled



This is the first level registered professional engineer (PE) or architect. Work is performed under general direction. Independently performs most assignments with instruction as to the desired outcome. Receives instructions on specific assignment objectives, complex features and possible solutions. Provides professional management of engineering, architectural and construction projects. May lead the work of lower level engineering/architectural staff.

Typical responsibilities include the following:

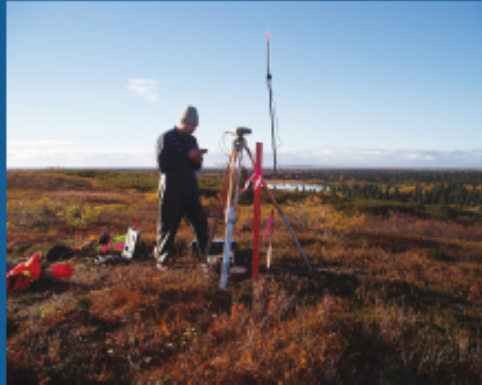
Assists in the preparation of and/or prepares drawings, specifications, cost estimates, reports, contracts and requests for proposals (RFPs); utilizes professional seal where appropriate.

- Provides technical architectural, engineering, and landscape architecture services and/or support for projects that construct new, or renovate or modify existing, CBJ owned or operated facilities.
- Assists with and/or conducts negotiations related to professional service contracts.
- Reviews and/or creates permit applications, including plans and drawings and specifications for compliance with regulatory codes and standards.
- Serves as a CBJ representative for management of multiple planning, design and construction projects.
- Manages and conducts project activities to ensure CBJ's interests are protected.
- Continuously monitors and inspects construction work quality, workmanship, and material selection to ensure compliance with contract documents; identifies deficiencies; recommends corrective actions; coordinates the resolution of issues between parties.
- Issues Stop Work orders, Notices of Defective Work and imposes other contractual mechanisms to contractors not complying with the contract documents.
- Monitors contractor's construction safety program and maintains safe practices for CBJ personnel at the construction site.
- Proposes and implements a dispute resolution program.
- Develops project budgets; provides fiscal control of projects; reviews and approves expenses charged to projects; administers professional design and construction contracts for timely completion; establishes and maintains the financial project records; and assists in financial audits.
- Determines appropriate insurance and bonding limits and amounts for a variety of project types.
- Designs, conducts and manages specialized studies; identifies alternatives and makes recommendations.
- Assesses project needs and hires, or recommends the hire, of qualified staff to provide high quality public service.
- Prepares reports regarding the status of projects.
- Trains other CBJ staff on project management, documentation and CBJ policies and procedures.
- Supervise and direct staff
- Makes oral and written presentations to the Assembly, Docks & Harbor Board, Commissions, Client Department groups and the public.
- Develops and implements departmental policies and procedures.
- Other related duties as assigned.

For more information and directions on how to apply, visit the City and Borough of Juneau Website.



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Human Resources at jobs@pdceng.com

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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.



WWW.PDCENG.COM

Professional Land Surveyor Position Opening

Location: Juneau, Alaska

PDC Engineers is seeking an experienced Professional Land Surveyor to join our full-service engineering team and lead and grow our Southeast Survey Department in Juneau, AK. We design innovative world-class projects utilizing state-of-the-art technologies from five offices throughout Alaska. We offer competitive pay and excellent benefits that includes paid time off (PTO), eight (8) paid holidays/year, healthcare, group life/disability, retirement, education reimbursement and advancement opportunities. PDC is a 100-percent employee-owned company.

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

Submit your resume to **PDC Engineers, Attn: Human Resources, 6205 Glacier Highway, Juneau, AK 99801** or at jobs@pdceng.com. Open until filled.

Anchorage | Fairbanks | Juneau | Palmer | Soldotna



proHNS is Hiring (Civil Engineer)

Haines, Alaska

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.

MATHCOUNTS®



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)

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)



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.

[Available on Netflix](#)

ASCE News Brief



5 Sustainable Projects You Wish Were in Your City

BY Anabella Tourkaman

October 29, 2018

Infrastructure is good. Sustainable infrastructure is better.

Rapid urbanization is a growing reality in infrastructure development. According to the [Global Environment Facility](#), it's estimated that more than two billion additional people will be living in cities by 2050. The need for sustainable infrastructure is more critical than ever.

The Institute for Sustainable Infrastructure, an organization cofounded by ASCE in 2011, has made it easier for civil engineers to incorporate sustainable methods. ISI developed the Envision rating system to measure sustainable infrastructure projects in five categories: quality of life, leadership, natural world, resource allocation, and climate and risk. Infrastructure projects that achieve Envision award status demonstrate exemplary progress toward sustainability.

Here are five sustainable Envision projects you wish were in your city:

1. The roadway revamp that's every pedestrian's dream

Who said roadways were just for cars? Why not build roadways accessible to all travelers? The Inner Loop East Transformation project in Rochester, NY, did just that. The underused highway was transformed into a pedestrian paradise, complete with energy-efficient LED street lighting, a protected two-way bicycle lane, ample public seating, safer crosswalks, wider sidewalks, and greenery.

2. The solar project that cuts greenhouse gas emissions in half

Alliant Energy had a bright idea in the Dubuque Solar project. The largest solar garden in Iowa, it supports Alliant's transition to a cleaner-energy future. Electricity generated from the project will be consumed entirely within the City of Dubuque. Solar panels will also help the city achieve its goals to reduce greenhouse gas emissions by 50 percent from 2003 levels by 2030.

[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/>

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



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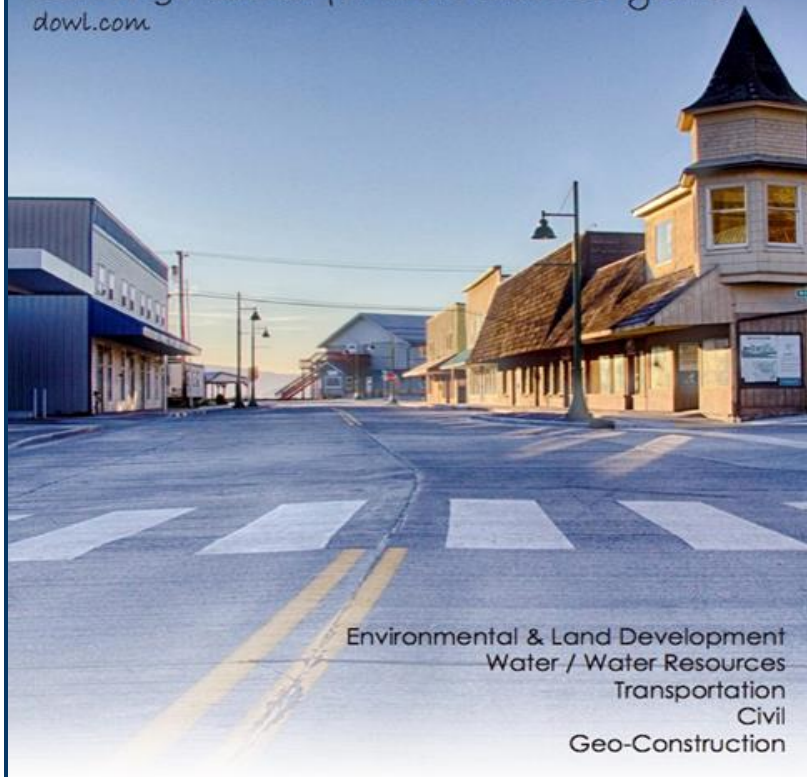


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Membership and Renewal

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](#)

2019-2020 Alaska Capital Engineers Officers

ASCE

President – Ethan Roemeling, EIT

Vice President - Lucas Chambers, PE

Treasurer – Janice Simmons, EIT

Secretary – Micki Minsch, EIT

Past President – Matt McGuan, PE

Emeritus - TBD

Special Committees

School Outreach/STEM Coordinator - Please Volunteer

Dream Big Coordinator - Please Volunteer

ASPE - Alaska Society Contacts

Past President - Jeanne Bowie, PE

President - Chris Miller, PE

President Elect – Craig Bledsoe, PE

Secretary - Leora Houtary, PE

Treasurer - Michael Spano, EIT

NSPE House of Delegates - Brad Fristoe, PE

Anchorage Chapter Director – Brian Lamson, PE

Fairbanks Chapter Director - Frank Wuttig, PE

Juneau Chapter Director - Darrell Wetherall, PE

To support Alaska Capital Engineers, consider sponsoring this newsletter. Contact Ethan Roemeling at EthanRoemeling@pdceng.com