

Alaska Designs

Volume 39, No. 2, February 2016

The Official Newsletter of the Alaska Professional Design Council

Anchorage Hosts Many Events for 65th Annual E-Week

This year marks the 65th anniversary of National Engineers Week (E-Week), an annual event to bring public attention to the work and contributions of our nation's engineers. Anchorage's E-Week is filled with many activities for adults and kids, and offers numerous volunteer opportunities. Help enhance the image of engineering in our community by getting involved.

E-Week Kick-Off: ASPE Bowling Fundraiser for MATHCOUNTS

February 19 | Dimond Center | Kick-off E-Week by joining ASPE and MATHCOUNTS at a fundraiser bowling tournament. All proceeds will support MATHCOUNTS. You may register as a team or individually. | For more information or to

RSVP, contact Angela Smith (angelasmith@pdceng.com).

Engineering Exhibits

February 22 - March 4 | ASD Schools | Exhibits displayed by local engineering companies and societies. This event provides a fantastic opportunity to learn more about local engineering societies and companies, the services they provide and projects they are working on. | For more information, contact Mark Kimerer (mkimerer@bettisworthnorth.com).

School Presentations

February 22 - March 4 | Local Schools | The local E-Week committee reaches out to local public and private schools, giving them access to presentations on engineering. In a

typical year, more than 30 volunteer speakers give nearly 40 presentations, reaching approximately 1,000 students. | For more information or to volunteer, contact Paul Tenison (paul.tenison@bp.com) or Martha White (martha_white@yahoo.com)

Student Tours

Date: TBD | UAA Engineering & Industry Building | The local E-Week committee has arranged a tour of the UAA Engineering & Industry Building for local high school students with an interest in engineering. This tour includes presentations by local engineers and involves students from Anchorage's public and private schools. | For more information, contact Nathaniel Cox (cox.nathaniel@gmail.com) or Tom Gill (Thomas.gill@hdrinc.com).

Junior Engineer Scholarships

Applications must be post-marked by January 15 | Provides

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Colleagues Honor Bennett, Burch, George

Three to Be Inducted into ASMC Hall of Fame

In celebration of its 50th year, the Alaska Surveying and Mapping Conference (ASMC) is pleased to announce the induction of three geomatics professionals into their Hall of Fame. Joining the ranks in 2016 are John F. Bennett, PLS, of R&M Consultants, Inc.; Joseph C. Burch, PLS, retired; and Shari George of Resource Data, Inc.

All three have served the Alaska surveying and mapping community, and the state of Alaska, with distinction. Their contributions have promoted growth in the industry and provided great opportunities for learning and mentorship to the next generation of geomatics professionals.

An awards banquet and induction ceremony will be held Thursday, February 18, 2016, starting at 5:30 pm at the Hilton Anchorage Hotel. Several Hall of Fame members will be present. To attend this year's conference or awards banquet, visit www.aksmc.org.

Member organizations of the ASMC are the Alaska Region of the American Society for Photogrammetry & Remote Sensing (ASPRS), the Alaska Chapter of the Urban & Regional Information Systems Association (URISA), the Alaska Section, and the Alaska Society of Professional Land Surveyors (ASPLS). The ASMC has coordinated for many years with the Alaska Arc Users Group (AAUG) and UAA Geomatics Student Association (GSA) to host the annual conference. ❖

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scholarships to high school seniors who wish to pursue a degree in engineering. In 2015, the local E-Week committee awarded more than \$20,000 in scholarships to high school seniors in Alaska. | For more information contact Gerry Brown (gbrbrown@gci.net).

Student Competitions

February 20 | UAA Engineering & Industry Building | The UAA College of Engineering and local engineering societies sponsor student competitions for local elementary, middle and high school students. The premier event that always gets the biggest reaction from students is the Bridge - students construct a bridge out of balsa wood at home or in school and then find out what sort of load it can withstand before it fails. Other competitions include Egg Drop, Floatable Moatable, Paper Airplane Distance Toss, Shake and Break, and more. | For more information contact Zach Zaletel (zzaletel@gmail.com).

Awards Banquet

February 27 | Eagan Center Anchorage | The annual E-Week Awards Banquet is a fitting wrap-up to an action packed week. The banquet includes presentation of the Engineer-of-the-Year Award, Junior Engineer Scholarships, and new this year - Engineering Excellence Awards. The E-Week steering committee is excited to announce that Kikkan Randall will be the keynote speaker for the event. | For more information or to make banquet reservations, contact Brian Looney (blooney@crweng.com).

Contributions

Your local E-Week committee is a non-profit organization and our events are entirely funded through donations. For information about

sponsoring specific E-Week events or making a general financial contribution to E-Week, contact Greg Jernstrom (gjernstrom@gjernstromengineering.com).

The E-Week committee is also accepting donations for our Scholarship Raffle (held at Awards Banquet). Wish list items include electronics (iPads, iPods, Kindle, etc.), artwork, gift baskets, gift cards, event tickets, etc. All proceeds from raffle ticket sales go directly into the E-Week scholarship fund. In 2015, we awarded more than \$20,000 in scholarships to graduating seniors. For more information or to donate a raffle item, contact Andrea Story (astory@rmconsult.com).

Volunteer Opportunities

How do you get involved? The 2015 E-Week events offer plenty of opportunities to get involved.

Raffle Items Needed for E-Week Awards Banquet

2016 Engineers Week is almost upon us, and as such, your Anchorage E-Week Committee is hard at work preparing all kinds of terrific events to bring public attention to the work and contributions of our nation's engineers.

One of those activities is the annual awards banquet. Each year at the banquet, we host a raffle to benefit the E-Week Junior Engineer Scholarship program. I am in need of donations of raffle items to make this a success. Popular items include:

- Electronics (iPad, Kindle, iPod, Bluetooth speakers, headphones, TVs, FitBit, GPS units)
- Artwork (prints, pottery, etc.)
- Gift Cards (restaurants, sporting goods stores, electronics stores, lodges, fitness studios, etc.)
- Gift Baskets (coffee, wine, car care, etc.)

Contact any of the event chairs for a specific event. If you are not sure how you want to take part or are unsure of where your talents could best be used contact committee chair Joe Taylor (joseph.taylor@ch2m.com).

Local Sponsoring Societies

Alaska Society of Professional Engineers | American Society of Civil Engineers | American Society of Heating, Refrigerating and Air Conditioning Engineers | American Society of Landscape Architects | American Society of Mechanical Engineers | Illuminating Engineering Society | Institute of Transportation Engineers | Society for Marketing Professional Services | Society of American Military Engineers | Society of Petroleum Engineers | Society of Women Engineers | Structural Engineers Association of Alaska ❖

- Jewelry
- Other Gifts (cookbooks/cooking tools, clothing, wine)
- Sporting Goods (fishing rods, snowboards, golf gear)

Andrea Story will be collecting donations at R&M Consultants until Wednesday, February 24. If you have an item you would like to contribute, please contact Andrea or just drop it by the R&M office on Vanguard Drive. Your generous donations allow 100% of proceeds from the raffle ticket sales to go to engineering students.



Thank you in advance for your generosity. ❖

Update on ASCE Alaska Section Efforts to Create a Report Card on State's Infrastructure

By Tor Anderzen, PE

I would like to give an update on ASCE Alaska Section efforts to create a report card for Alaska's infrastructure. As you may know it is an effort that we have been trying to get under way for a while. We really have traction now and are in a data gathering phase during February.

Many may be familiar with the national report card efforts. The big difference is that we only look at Alaska's infrastructure and how well it fares. We have some unique challenges in Alaska with our two basic types of infrastructure. Sometimes we think of Alaska as having a rural part and an urban part or we just call the rural part "the bush." To address this we will add a white paper discussion on how the infrastructure challenges are different between the portion of Alaska that is on the road system versus off.

Each category that we evaluate will be given the "30,000 ft." view where we review all of Alaska as one, to stay on format with how the report card is done in other states, and leave the on versus off challenges to the white paper.

Another thing that is unique with Alaska is our marine highway system for which we are creating a new category.

The categories for our report card are: Schools, Bridges, Highways, Rail, Aviation, Water, Wastewater, Dams, Energy, Ports & Harbors, Solid and Hazardous Waste, and Marine Highway.

We are gathering this information during the month of February, so if you are interested in participating in this or future efforts please contact me and I will team you up with the leader for the category you want to help with.

The next phases are Scoring, First Draft of category white papers,

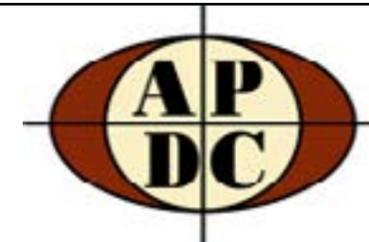
peer review, second draft followed by society review, final draft, and publication. Our aim is to release the report card toward the end of September.

What is so exciting is that we have student members, YMF members and branch members from Fairbanks, Juneau, Matsu, and Anchorage all working together on the phenomenal task of a report card for our state. A few days ago I met with the president of Alaska Planners Association and they are very excited to help up with data gathering, scoring, review, and rollout. They see the value of the report card and want to help us in any way they can. We have support from some key legislators as well as key agencies, and plan to build a partnership with Chamber of Commerce for the roll out of the report card.

Another partnership that I am currently working on is to get the support of Alaska's Municipal League in the data gathering effort. I also hope they will join us when it comes to the rollout. Getting the report card available and understood by the public and our decision makers is the goal. As Region 8 Governor Chris Veis from Montana put it, once the report card is done, the real work starts. Having key partners in the rollout will be important as our state is large and only so many of us are active in this effort.

If you think you can help with data gathering, scoring, write-ups, or review we would sincerely appreciate your help and ask that you contact Tor Anderzen, tjanderz@mtu.edu, 907-306-3450. ❖

**50th Annual Alaska Surveying and Mapping Conference
February 15-19, 2016
Hilton Anchorage Hotel
www.aksmc.org**



The monthly newsletter of the Alaska Professional Design Council does not necessarily express the opinions of the Council, the member societies, or their members.

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National Surveyors Weeks Approaches: What is it?

By Frank Lenik, PLS

We've all heard about National Surveyors Week – the weeklong celebration of the surveying profession that takes place annually in March. But who's actually celebrating, and how? What is the best way to use this event to the advantage of our profession?

Consider the main three goals of the program:

1. Public awareness of our profession through education
2. Public awareness of our profession through the media
3. Public awareness of our profession through public service

The education of the public, both adult and youth, is probably the number one goal of National Surveyors Week. The work we perform for the benefit of the public often goes unrecognized and we need to share our knowledge with them. The work being done by our Trig-Star volunteers is incredible and should be highlighted during National Surveyors Week. There are volunteers doing outreach to Boy Scout and Girl Scout groups and resources are available for these programs. We can expand on this and offer to speak to the local Rotary or Lions Club. They are always willing to have a speaker at their meetings. How better to promote your profession and your business than to make a public appearance?

Reaching out to the public through the media and making them aware of our profession and our role in today's society is a goal whose value we all recognize. Over the last few years we have achieved this in a variety of ways including Presidential, gubernatorial, and municipal proclamations, newspaper articles, and radio spots highlighting National Surveyors Week. There is also a GPS Day Website, a National

Surveyors Week Facebook page and a National Surveyors Week Twitter account. Each of these channels represents another way for the land surveying community to stay connected with a different section of the public.

Although the annual effort of contacting the President, members of Congress, your governor and your municipal leaders may seem trivial, remember that it serves to remind them that surveyors are important. It is an essential part of our awareness campaign and serves as an introduction to our senators and representatives when we visit them on the hill. Whenever a bill, law or ordinance is being contemplated that affects the public and impacts on our profession, these elected officials should know who to turn to for answers to their questions.

Newspaper articles, radio advertisements, and on line media can serve the same function for our profession, keeping us in the public eye. Rather than being hidden behind an attorney, title agent or real estate agent, we can use the media to highlight the value of our profession with our most important constituency, our clients. The best way to get an article about surveying published in a newspaper is to contact a local reporter and let them know that you have a good lead on a community interest story. If that

fails to attract their attention offer to write one yourself and submit it to the paper. State societies, society chapters and even private firms have written or sponsored articles or public service announcements that serve as advertising for our profession and their businesses.

In his inaugural address on January 20, 1961, President John F. Kennedy poignantly said, "Ask not what your country can do for you—ask what you can do for your country." It is with this attitude in mind that we should attempt to give back to our nation and our profession and lay the groundwork for the future. We can lament the passing of the geodetic field parties of the past and the disappearance of the NGS monuments, or we can embrace the future, share our expertise, and volunteer for a common cause. In doing this we can prepare the foundation that future surveyors and the public will turn to for their geodetic positioning. It will help us hone our skills and keep us current on changes in our own practice. ❖

Mat-Su Chapter of ASPLS Announces 2016 Board Members

The Mat-Su Chapter of ASPLS elected the following officers in January: Bob Farmer, President; Fred Schwaderer, Vice President; Fred Wagner, Treasurer, and Karl Woods, Secretary. ❖

APDC Member Societies

Alaska Society of Professional Engineers (ASPE)
Alaska Society of Professional Land Surveyors (ASPLS)
American Institute of Architects Alaska Chapter (AIA)
American Society of Civil Engineers Alaska Section (ASCE)
American Society of Landscape Architects Alaska Chapter (ASLA)
American Council of Engineering Companies of Alaska (ACEC)
American Society of Interior Designers Alaska Chapter (ASID)
Structural Engineers Association of Alaska (SEAAK)

R&M Consultants Announces New CEO, CFO

R&M CONSULTANTS, INC. (R&M) named Len Story, PLS as the firm's new Chief Executive Officer and Bret Coburn as Chief Financial Officer, effective January 1, 2016. This is a planned change as laid out in the firm's succession plan.

Len Story joined R&M in 1979, as a Survey Technician. Over the past 37 years, he has worked his way up, filling roles as Party Chief, Senior Land Surveyor, Surveying and Mapping Department Manager, Vice President, Chief Operating Officer (2008-2015) and now CEO. As CEO, Len will continue to implement the firm's strategic plan and be responsible for the firm's operations, working closely with firm staff to continue R&M's proud tradition of providing quality professional services on the projects that make a real difference in the day-to-day lives of Alaskans.

"This is a very humbling experience for me. I still remember my first day at R&M – more than 37 years ago. I'm honored and grateful for the opportunity to lead this exceptional organization of creative, dedicated and talented professionals," said Len about his transition to CEO. "Through the hard work of many individuals, R&M has become one of the largest, most versatile and respected companies in Alaska. While we have seen great success, we are all hungry to do more. R&M's next chapter begins with clarity of purpose and a strong sense of mission that will lead us to imagine the impossible solutions and find a way to deliver. We need to prioritize innovation that is centered on provid-

ing value to our clients and community. Through a commitment to quality and excellence in all we do, and empowering our staff, R&M will continue to succeed."

Len offers strong leadership and operational knowledge and has played an important role in implementing the firm's operational structure since 2002. A member of R&M's senior management team, Len played a vital role in advancing the firm's existing work by supporting the operational departments and leading execution of R&M's strategic plan. In conjunction with assuming the CEO role, he was also voted President of R&M's Board of Directors.

Bret Coburn served as R&M's Chief Executive Officer with responsibility for oversight of the firm's administrative and financial functions from 2002 to 2014. He is moving into the CFO position at R&M and will continue to be responsible for financial matters at the firm,

and providing oversight of the firm's accounting and administrative staff. Bret was recently voted Vice President of R&M's Board of Directors. "It has been an honor to serve as R&M's CEO. The company has grown and matured over the past decade since our ownership transition, evolving into a truly great place to work. I'm very proud of the contribution our employees make every day in the Alaskan communities where we work. Moving forward, R&M has a great future with Len Story assuming the role of CEO. His competency, vision and operational

experience will serve the company well," said Bret about his tenure as R&M's CEO.

Prior to joining R&M, Bret worked for the St. George Tanaq Corporation in various positions, ending his 19-year tenure as the corporation's Chief Executive Officer. Bret's professional experience includes more than 30 years of involvement in professional services, land development, construction and finance.

Founded in Alaska in 1969, R&M offers civil, structural, geotechnical and waterfront engineering; surveying and mapping; GIS services; geology; hydrology; environmental services; transportation and land use planning; public involvement; right of way and lands consulting services; construction administration; materials testing; and special inspection. R&M has offices in Anchorage and Fairbanks. ❖

R&M Consultants Welcomes Justin Shaw

R&M CONSULTANTS, INC. (R&M) is pleased to announce the addition of Justin Shaw, PE, to our Anchorage office team.

Justin joined R&M's Engineering Department as a Project Engineer in October 2015. As part of R&M's Water Resources Group, he is responsible for hydrologic and hydraulic analysis and design of water resources, roadway, airport, site development, and hydropower projects.

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Coffman Engineers Announces Two Earn Alaska PE

ANCHORAGE (February 2, 2016) –Coffman Engineers is pleased to announce Jennifer Parkhurst and Andrew Yanoshek have obtained their Professional Engineering (P.E.) licenses in Alaska.

Jennifer Parkhurst, P.E., is a mechanical engineer in the Anchorage office. Jennifer has eight years of design work experience in commercial facilities such as office buildings, medical clinics, dormitories, and equipment maintenance buildings. These projects included a variety of HVAC, plumbing, and hydronic heating system design. She also has experience in conducting condition surveys of existing buildings, energy modeling of existing and new buildings, sustainable building design, and industrial ventilation design. Jennifer is the current president for

the Alaskan Chapter of American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE). She is a graduate of Montana State University in Bozeman, MT.

Andrew Yanoshek, P.E., is an electrical engineer in the Anchorage office. Andrew has five years of experience in electrical/instrumentation design for a wide variety of projects ranging from industrial, government, and commercial facilities. Andrew's unique design experience includes primary power distribution, instrumentation and controls, arc flash and short circuit analysis, as well as area classification analysis of facilities. He has performed these duties for hangars, pipelines, schools, and commercial buildings. Andrew holds a B.S. in Electrical

Engineering from the University of Idaho.

Coffman Engineers is proud to celebrate 37 years of providing clients with multidiscipline engineering services including civil, structural, mechanical, electrical, fire protection, process piping, instrumentation and controls, corrosion control engineering, project management, commissioning, and land survey services. The firm's successful history is propelled by their guiding principles of lasting creativity, results, and relationships. Coffman Engineers offers our clients an unwavering commitment to excellence in our services through offices in Anchorage, Alaska; Bozeman, Montana; Hagatna, Guam; Honolulu, Hawaii; Oakland and Los Angeles, California; and, Seattle and Spokane, Washington. For additional firm information, please visit www.coffman.com or follow us on Twitter @CoffmanEngineer. ❖

R&M Consultants Welcomes Justin Shaw

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"It's been great working at R&M," said Justin. "The projects are really diverse so every project is like a brand new project for me. I've really enjoyed it."

Justin has more than five years of experience in water resources engineering. He has worked on numerous hydrologic, hydraulic, and erosion control projects for public and private sector clients, including the Louisiana Department of Transportation and Development, Department of Natural Resources, and Coastal Protection and Restoration Authority. He is experienced in creating H&H models, analyzing natural and man-made drainage systems, generating flood mitigation measures, and performing sedimentation and erosion studies. His work has focused on one- and two-dimensional modeling of riverine and coastal environments.

Since joining R&M, Justin

has worked on a culvert replacement project near Galena to replace the existing, deteriorated drainage structure within limited right-of-way. He is also working on the Little Goldstream project near Nenana to replace an older bridge with a fish passable culvert.

Justin has a M.S. and B.S. in Civil and Environmental Engineering from Mississippi State University. He is a professional civil engineer licensed in Alaska. Justin and his wife, Anna, spent the previous summer in Anchorage for Anna's internship and loved it. When Anna was offered a job here, they jumped at the opportunity, and moved from Louisiana. They have spent their time enjoying all Alaska has to offer, including skiing and exploring the hiking and biking trails around Anchorage. Justin also enjoys woodworking in his spare time and attempting to train his dog. ❖

AELS Registration Board Meets Feb. 10-11 in Juneau

The State of Alaska, Department of Commerce, Community and Economic Development, Board of Registration for Architects, Engineers and Land Surveyors (AELS Board) will meet starting at 9am Wednesday and Thursday, February 10-11, 2016 in the State Office Building in Juneau, 9th Floor Conference Room C. The Public Comment portion of the agenda is scheduled for 1:15pm Wednesday. Visit the board website for a complete copy of the agenda, <https://www.commerce.alaska.gov/web/cbpl/ProfessionalLicensing/BoardofArchitectsEngineersandLandSurveyors.aspx>. ❖

**APDC LLC Fly-In to Juneau
February 9-10, 2016**

Contact dale@denelsonak.com

Directory of Sustaining Members



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Links to Sustaining Members' web sites are available in the online directory at <http://www.apdc-ak.org>.

Alaska Professional Design Council Calendar

Monday, February 1, 2016

ASPE Fairbanks, Noon, WestMark Hotel (1st Mon)

Thursday, February 4, 2016

ASPE Anchorage Directors, 7 a.m., McDonald's, 800 W Northern Lights Blvd. (1st Thurs)

APDC, Noon, BBFM and via teleconference (1st Thurs)

Tuesday, February 9, 2016

ACEC Board, 4:00 p.m., Shannon & Wilson, Anchorage (2nd Tues)

Wednesday, February 10, 2016

ASCE Juneau Branch and ASPE Juneau Chapter jointly hold membership meetings at Noon at the AEL&P 2nd Floor Conference Room from September through May (2nd Wed)

ASLA Alaska Board, 12:10 p.m. in the URS 3rd floor conference room (2nd Wed)

Thursday, February 11, 2016

ASPE Anchorage, Noon, BP Energy Center (2nd Thurs)



Monday, February 15 through Friday, February 19

Alaska Surveying & Mapping Conference, Hilton Anchorage Hotel, includes **ASPLS Annual Meeting 8am Wednesday, February 17 in the Aspen/Spruce Rooms (first floor)**

Tuesday, February 16, 2016

ASCE Anchorage, Noon, Moose Lodge on Arctic Blvd. (3rd Tues)

Wednesday, February 17, 2016

ASCE Mat-Su Branch, Noon at the Mat-Su College (Mile 2 Trunk Road) in Room FSM 206 (3rd Wed)

ASCE Fairbanks, Noon, WestMark (3rd Wed)

Monday, February 22, 2016

Deadline for the March issue of *Alaska Designs* (20th of each month, or Monday)

Tuesday, February 23, 2016

ASPLS Fairbanks, Noon, WestMark Hotel (4th Tues)

Wednesday, February 24, 2016

ASPLS Valley, Noon, Windbreak, Wasilla (last Wed)

Thursday, March 3, 2016

ASPE Anchorage Directors, 7 a.m., McDonald's, 800 W Northern Lights Blvd. (1st Thurs)

APDC, Noon, CRW Engineers, LLC (1st Thurs)

Monday, March 7, 2016

ASPE Fairbanks, Noon, WestMark Hotel (1st Mon)

Tuesday, March 8, 2016

ACEC Board, 4:00 p.m., Shannon & Wilson, Anchorage (2nd Tues)

Wednesday, March 9, 2016

ASCE Juneau Branch and ASPE Juneau Chapter jointly hold membership meetings at Noon at the AEL&P 2nd Floor Conference Room from September through May (2nd Wed)

ASLA Alaska Board, 12:10 p.m. in the URS 3rd floor conference room (2nd Wed)

Thursday, March 10, 2016

ASPE Anchorage, Noon, BP Energy Center (2nd Thurs)

Tuesday, March 15, 2016

ASCE Anchorage, Noon, Moose Lodge on Arctic Blvd. (3rd Tues)

ASPLS Anchorage, 5:30pm, Lone Star Restaurant (3rd Tues with even months at Noon at the BP Energy Center and odd months at 5:30pm at Lone Star)

Wednesday, March 16, 2016

ASCE Fairbanks, Noon, WestMark (3rd Wed)

ASCE Mat-Su Branch, Noon at the Mat-Su College (Mile 2 Trunk Road) in Room FSM 206 (3rd Wed)

Monday, March 21, 2016

Deadline for the April issue of *Alaska Designs* (20th of each month, or Monday)

Tuesday, March 22, 2016

ASPLS Fairbanks, Noon, WestMark Hotel (4th Tues)

Wednesday, March 30, 2016

ASPLS Valley, Noon, Windbreak, Wasilla (last Wed)

Send calendar notices/updates by the 20th of each month to Vicky Sterling, sterlingtouch@gci.net.



When and Where

Always check locally to confirm meeting times and locations. Some organizations suspend or reschedule meetings in summer months. The newsletter publication calendar generally does not allow time to include holiday and last-minute schedule changes.

Alaska Designs Welcomes Articles

Alaska Designs welcomes articles and letters on subjects of interest to design professionals. The deadline is the 20th of each month for the following month's issue. Items may be edited for length or content and will be published as space is available.

Submit items to the editor, Vicky Sterling, at via email at sterlingtouch@gci.net.