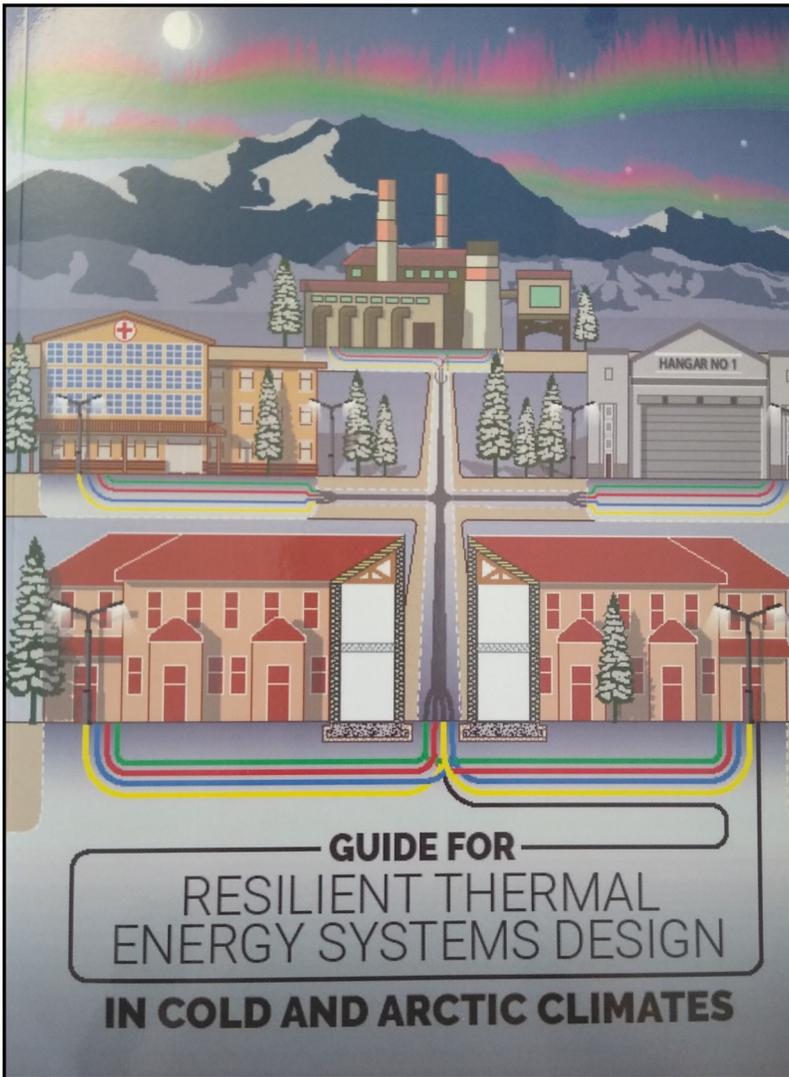


### Lyle, Emily and Robin Get Published



Lyle Axelarris, Emily Winfield, and Robin Rader were contributing authors on the recently published book 'Guide for Resilient Thermal Energy Systems Design in Cold and Arctic Climates.' Lyle contributed to Chapter 4, Building Envelope, which outlines considerations for building envelope features in cold climate design.

Emily and Robin contributed to Chapter 6, "Best Practices for HVAC, Plumbing, and Heat Supply", which described effective mechanical system design. The target audience for the guide is technical experts in building and energy system design but may also be useful for building owners, executive decision makers, and energy managers of public, government, and military organizations.

The guide is the result of a nearly yearlong collaborative effort with experts and industry professionals across North America and Europe. This effort also included the publication of two ASHRAE papers, paired with presentations at conferences, including the upcoming ASHRAE Virtual Conference, the Cold Climate HVAC and Energy Conference, and the International Building Physics Conference in Copenhagen.

### World Eskimo Indian Olympics (WEIO)

Design Alaska is proud to help sponsor the 60th Annual World Eskimo Indian Olympics. The first World Eskimo Indian Olympics was held in Fairbanks in 1961. WEIO games are played to show skill, strength, agility, and endurance. Stop by **July 21-24, 2021** at the Carlson Center to watch the contestants show off their skills in games such as the ear pull, one-foot high kick, blanket toss or the greased pull walk. While you are there take in the beautiful beadwork and the spirited dancing and traditional singing.



## President's Corner

### Retroactive Codes

A common point of discussion when a project starts in our industry is 'bring it up to code'. What does that mean?

In general, any building designed, built, and used for its original purpose can continue that use without modifications and be code compliant. Buildings are not required to be retroactively updated to current codes when the codes change. For example, an apartment building built in 1950 that is still an apartment building is still in code compliance even though fire sprinklers would be required for a new construction apartment building. Similarly in other industries, seat belts (and later shoulder harnesses) became required in cars, but older cars were not required to be upgraded to be continually used.

There are some things that are pulled in as part of code enforcement if the building is continuing in its intended use. The International Fire Code (IFC) and NFPA 101 both have provisions for how existing buildings are to be operated safely. When the code changes, the current use may have to change to accommodate. An example would be storage of flammable liquids. If the IFC reduces the quantity of gasoline that can be in a building, then a building operator will need to reduce the quantity they have on site to remain in compliance with the Fire Department for continual occupancy. The Fire Department regularly reviews and visits high risk properties like schools, restaurants, and hospitals to make sure they are operating safely in accordance with currently adopted codes.

When someone desires to change a building's shape or occupancy use, an analysis is required to determine how the codes will be applied to the change. From the International Existing Building Code (IEBC), if the work is just repair work, then repair can generally be done similarly to how it would have been done originally. However, if you alter anything (move a wall, change the style of heating system), that work must be done in accordance with current code, but the remainder of the building can remain as constructed (you don't have to fix areas that are outside of the work area). If you modify enough of the building, then you must bring the whole thing up to current code.

ADA is one interesting exception. Sometimes in order to do work in one area of the building, you need to upgrade the ADA provisions in different areas to make the building more accessible. The code recognizes that people will avoid the ADA upgrades and the only way to get upgrades to happen is to require some project money be spent on ADA for every project.

So when someone says 'bring it up to code,' please have a discussion about what that means for this project, and it may require extensive, thoughtful analysis to figure out the scope of work meets the user's needs for the project and the public need for code compliance.

Chris Miller P.E.

President



### Summer Food Truck

Design Alaska enjoyed lunch from the Alaska Cheesesteak Company food truck on June 24. This was the third time Alaska Cheesesteak Company joined us for our annual food truck lunches. Employees enjoyed a variety of cheesesteaks, nachos, fries, and cheese curds under the warm afternoon sun. It is always a treat to have good food and nice weather during a gathering!

# Lightning Strike

By: Isaac Ladines

Statistically, from 2006- 2019 there has been a documented 418 deaths in the U.S. from people who have been struck by lightning according to a publication from the National Lightning Safety Council. Generally, the common belief is that golfers would make up a great majority of this number, but the reading further explains that only 10 golfers have been unfortunate enough to meet this fate during that period. However, on June 16<sup>th</sup>, 2021 that number nearly incremented to 11 in what would have been the first documented case of an Alaskan golfer struck down by lightning.



When I left work that afternoon for golf league, it was a beautiful sun shining day. As I neared the Fairbanks golf course though, I could see the foreboding rain clouds emerging over the horizon. Still sunny when we started, we played the first few holes without concern. The rain started about the 4<sup>th</sup> hole with the first flashes of lightning and rumbles of thunder far in the distance following shortly after. Our group decided to push on with the hope that the storm would pass. However, Mother Nature is fickle. Within a matter of minutes, the thunder seemed almost overhead. Wanting to finish the 5<sup>th</sup> hole, we quickly carted down the length of the fairway to the green. Trying to finish my putt, a brilliant jagged white light shot straight down out of the sky and struck the birch tree about 50 feet in front of me. The sound was like that of a gunshot. Both my ears started ringing instantly. Almost immediately after the hair on my arms, legs and head stood up on end from the residual static. By the time I had looked back at the tree, the first 5 feet of bark had splintered and was strewn in a 10-foot radius. We were then hit by a strong scent of smoldering birch as we swiftly made our way back to our cars. Naturally, we decided to cancel the rest of the golf round.

That said, lightning and thunder should not be taken lightly. The intent of this article is to demonstrate how quickly a situation can turn from bad to worse. In most cases, the National Lightning Safety Council explains that most lightning victims had access to safe shelters. Its for that reason that quickly finding shelter is of the utmost importance to avoid a lightning threat. Even better is to postpone whatever outdoor event that is planned when there are thunderstorms predicted in the forecast. A good general rule of thumb is when observing lighting start counting to 30. If you hear thunder before 30, find shelter. The National Weather Service advises to move to a shelter that is walled and roofed. Second best to a building is a close doored vehicle.

It goes without saying that I am now a firm believer of the old saying that states "When thunder roars, stay indoors."

# Pre-Fourth of July BBQ



On Thursday, July 2, Design Alaska employees gathered outside to enjoy the beautiful weather and delicious food. The grill was manned by our expeditor, Jim, who takes great pride in making the "perfect ribs."

Employees enjoyed a spread that included ribs, beyond burgers, green salad, potato salad, macaroni salad, rolls and red velvet cake.



# Birthday Celebration

On Monday, July 12 employees enjoyed cakes made by Cris Guevremont. Cris is considering opening a cake business and treated employees to some of her test cakes. Flavors included white cake with coconut, chocolate cake with walnuts, chocolate cake with dark chocolate and fruit on top, white cake with white chocolate and fruit on top, and a gluten free cake with strawberries, blueberries and almond flour. The cakes were paired with a fruit platter and fruit dip.



**As a child, what did you think would be awesome about being an adult, but isn't as awesome as you thought it would be?**

Eliza Cink	Getting to eat anything I want... Now that I'm responsible for deciding what to cook every night, I just wish someone would make me dinner! Plus it turns out, eating chocolate all day every day is not actually enjoyable.
Taylor Tharp	I thought having my own nice, quality, spacious, and affordable apartment that allows pets and was in a good location would be easy to acquire as an adult. Little did I know that finding an apartment that meets any one of those is difficult to find and afford, especially with a pet and no roommates. Of course I didn't grow up in Alaska, so I didn't even realize that running water would be added onto that list.
Eric Gabrielson	I couldn't wait to be old and wise and be respected. But getting old sucks.
Chris Miller	Don't take this the wrong way but...WORKING. When I was young a job was everything. Getting that first job (golf caddy), second job (pizza cook), going to college so I could get engineering job (magazine printing plant). Everything was about getting a job. After almost 35+ years of working I believe having a job I enjoy is very important, but it is NOT everything. Relationships, community, family, experiences, exploring, volunteering, solitude, are all important.
Robin Rader	I never wanted to grow up. It just kept happening day after day.

 **Recycling** 



**Reuse, Reuse, Recycle**

Gotta love businesses that take their own packaging back, and reuse it too - plus a chance for a great beer, win-win-win!

Bring back your plastic 4 pack carriers for reuse at Black Spruce Brewing Company.

What other businesses around town have you noticed with initiatives like this?

**General Recycling Facts**

- Americans throw away enough office paper each year to build a 12 foot high wall from Seattle to NY (a new wall every year).
- Recycling cardboard only takes 75% of the energy needed to make new cardboard.
- Recycling one ton of plastic bottles saves the equivalent energy usage of a two person household for one year.
- In 2007, 82% equaling 1.8 million tons of ewaste (various electronics e.g. TVs, cell phones, computers etc.) ended up in landfills.
- Making glass from recycled material cuts related water pollution by 50%.

Provided by: [www.recycleacrossamerica.org/recycling-facts](http://www.recycleacrossamerica.org/recycling-facts)



## Summer 2021 Trails Challenge has Begun! June 25 - Sept 30



The Fairbanks Trails Challenge is an outdoor scavenger hunt designed to get you out with your friends and family to explore local trails, both new and familiar. Each summer and winter season, Parks Department staff temporarily installs special signs in random locations along a dozen or so local trails. While the signs are up, people are encouraged to visit the trails and try and find the signs.

### 2021 Summer Trails Challenge Trail List:

1. Chena Bike Path - Downtown
2. Eagle Trail - Tanana Lakes Recreation Area
3. Flicker Trail - Tanana Lakes Recreation Area
4. Peninsula Trail - Chena Lake Recreation Area
5. Bike Path - Chena Lake Recreation Area
6. Beaver Springs Nature Trail - North Pole
7. Relay Start Loop - Birch Hill Recreation Area
8. Sunnyside Trail - Birch Hill Recreation Area
9. Skyline Ridge Trail - Skyline Ridge Park
10. Secret Trail - Skyline Ridge Park
11. Skarland 9 Mile Loop (College Hills) - College Hills Subdivision
12. Reishus Trail - UAF North Campus Trails
13. Onward Trail - Koponen Homestead Trails
14. Happy Valley Inner Loop - Ester Dome Single Track
15. Cranberry Trail - Goldstream Hills
16. Compeau Trail- Chena River State Recreation Area\*\*
17. Lower Chena Dome - Chena River State Recreation Area
18. Tabletop - White Mountains National Recreation Area
19. Quartz Trail - White Mountains\*\*\*\*
20. Circle-Fairbanks Historic Trail - Twelvemile Summit Steese Highway\*\*\*\*



**\*\*Multiple-use/Motorized**

**All other trails are Non-Motorized Multi-Use**

**EASY**

**MODERATE**

**DIFFICULT**

**VERY DIFFICULT**

**To register, visit:**

[https://fairbanksak.myrec.com/info/activities/  
program\\_details.aspx?  
ProgramID=30203#activities](https://fairbanksak.myrec.com/info/activities/program_details.aspx?ProgramID=30203#activities)

# July 2021 ~ Upcoming Events

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Company BBQ	2	3
4 Independence Day	5	6	7 Table Massages	8	9	10
11	12	13	14	15	16	17
18	19	20	21 Table Massages	22 Food Truck	23	24
25	26	27	28	29 Managers Meeting	30	31

## July Birthdays

Grant Olson	July 16
Mitchell O'Bryant	July 18
Don Hopkins	July 22
Bill Guevremont	July 25
Deanna Woods	July 28



## August Upcoming Events

Sunday, August 8—Design Alaska Company Adventure—Stan Stevens Glacier Cruise  
 Monday, August 9—Floating Holiday—Design Alaska Closed  
 Thursday, August 12—Company BBQ  
 Thursday, August 26—Food Truck

## Design Alaska Anniversaries

Robin Rader	29th Anniversary	July 20, 1992
Eric Gabrielson	27th Anniversary	July 30, 1994
Molly McGuire	8th Anniversary	July 15, 2013
Emily Winfield	7th Anniversary	July 30, 2014
Dantasia Baum	4th Anniversary	July 10, 2017
Pete Jacobsen	4th Anniversary	July 24, 2017
Elmer Degerlund	2nd Anniversary	July 22, 2019

## Around Town

**Every Thursday** through August 12 there is live music at the UAF Botanical Gardens starting at 7pm.  
 July 24—Golden Days Street Fair  
 July 30—August 1—Eielson Air Force Base Air Show  
 July 30—August 8—Tanana Valley State Fair