

# TECH TALK



July 2017 Edition

**CAPT**

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City of Westminster  
303-658-2081

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Town of Erie  
303-926-2770

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303-987-7572

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720-874-6609

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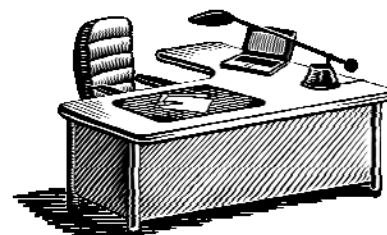
Ann Freiberg  
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303-289-3725

### PAST PRESIDENT

Leslie Carpenter  
Jefferson County  
303-271-8287

## From the President's Desk

Greetings All-



Ready or not Summer is here and personally I am loving it..... except the part about the year being half over! Since not a single person responded to my riddles last newsletter, I will continue to hold onto this wonderful prize until another date. Here are the answers for those curious:

- ◆ He was in a 20 story building, but he was only on the first floor.
- ◆ Middle of an ocean on a log
- ◆ A die (dice)

Thank you to the City of Loveland for hosting our last meeting and gifting the attendees survival kits (sunscreen to someone who burns in the shade is a wonderful gift), and a special thank you to Shaunna Mozingo for her continuous support, enthusiasm and excitement to train CAPT members. Until we visit again:

*"IF YOU DON'T BUILD YOUR DREAM  
SOMEONE ELSE WILL HIRE YOU TO HELP  
BUILD THEIRS"*

**JULY CAPT MEETING:**

Friday, July 28, 2017

8:00 am—3:00 pm

Hosted by City of Black Hawk

*Emergency Operations Center  
911 Miners Mesa Road  
Black Hawk Colorado*

**RSVP to:**

Darla Brooks

CAPT Program Chair

720-874-6609 or

[dbrooks@arapahogov.com](mailto:dbrooks@arapahogov.com)

Registration Fee: \$35.00 cash or check payable to CAPT at the door.

(Registration Fee includes Breakfast, Breaks, Lunch, Instructional Materials and is Non-refundable)

**Agenda**

- |               |   |
|---------------|---|
| 8:00 – 8:30   | <b>Registration</b>   |
| 8:30 – 9:00   | <b>Business Meeting</b><br><i>President, Jessica Sorensen</i>   |
| 9:00 – 10:15  | <b>Plan Review with A Twist –<br/>Building Plan Review and Inspections</b><br><i>presented by Steve Thomas<br/>Colorado Code Consulting LLC</i><br>Discussion of very large and unusual buildings<br>Alternative Designs<br>Performance Based Design<br>Special Inspections |
| 10:15 – 10:30 | <b>Break</b>  |
| 10:30 – 12:00 | <b>Plan Review with A Twist (cont.)</b>   |
| 12:00 – 1:00  | <b>Lunch</b>  |
| 1:00 – 3:00   | <b>Plan Review with A Twist (cont.)</b>   |



*Training class offers .5 CEU's towards certification renewal which will be emailed to you. Make sure you sign in to receive CEU's.*

# TALK OF THE TRADE



Construction problems occur frequently in Colorado. Do your homework before entering into a contract with any company.

## **CHECK REFERENCES**

Call the homeowners who had work performed by the contractor you are considering hiring. Was the job done professionally? Was the job finished on time and on budget? Would the homeowner use the company again?

## **LOOK AT THE JOB**

Does the work satisfy your demands and needs? Do you plan on having the same amount of work performed? If the work you are seeing is a small job and your job is larger in scope, you may want to ask the contractor for a referral for a larger project she/he has performed? If so, find out if this would be the contractor's first attempt at a job of this size.

## **FIND OUT HOW MUCH OF THE COMPARISON JOB WAS SUBCONTRACTED**

Determine who will subcontract the job and check references. Does the contractor always work with the same subcontractors or does he hire any available subcontractor? Will you have any say in who will be hired?

## **GET AT LEAST THREE WRITTEN BIDS FOR YOUR PROPOSAL**

Make certain the entire arrangement is in writing. Remember, you cannot prove a verbal conversation or agreement took place.

## **DETERMINE WHETHER THE CONTRACTOR IS REQUIRED TO PULL PERMITS**

Make certain the permit is pulled and on site before allowing work to begin and before paying huge sums of money.

## **WRITE A DETAILED CONTRACT**

This should include dates, materials, change orders, inspections and payment schedules. Again, remember that you cannot prove a verbal conversation took place.

## **PAY AS YOU GO**

Make certain the payment schedule is in writing. You may consider paying only after inspections take place and all corrections have been performed. Obtain lien waivers as you pay each installment.

## **REQUEST FREQUENT BILLS**

Ask to see invoices for materials before paying the bill.

## **INSPECT THE WORK FREQUENTLY**

Make certain all city/county inspections are done on time.

## **REQUEST THAT CORRECTIONS BE MADE AS THE JOB PROGRESSES**

Don't wait until the job has been completed. It is difficult to level the floor after the flooring has been installed, and it is difficult to move the outlet to the specified location after the job has been plastered and painted. Partial performance is generally considered a civil problem and civil remedies are available. The District Attorney's Office can only become involved in partial performance complaints when there is a provable pattern of partial performance resulting in a monetary benefit for the contractor.

# H i g h l i g h t s

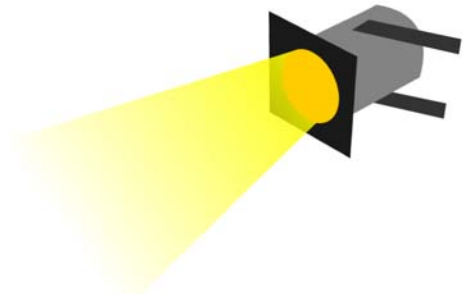
We're on the Web  
[www.cocapt.com](http://www.cocapt.com)

Congratulations to [your name here](#) on passing your [name of exam here](#) certification test.

If you have recently passed an ICC exam or have a milestone you would like to share let us know. We would like to acknowledge your success. Please send your name, jurisdiction and type of certification or milestone received to:

[lcarpent@jeffco.us](mailto:lcarpent@jeffco.us)

## July's Permit Tech Spotlight



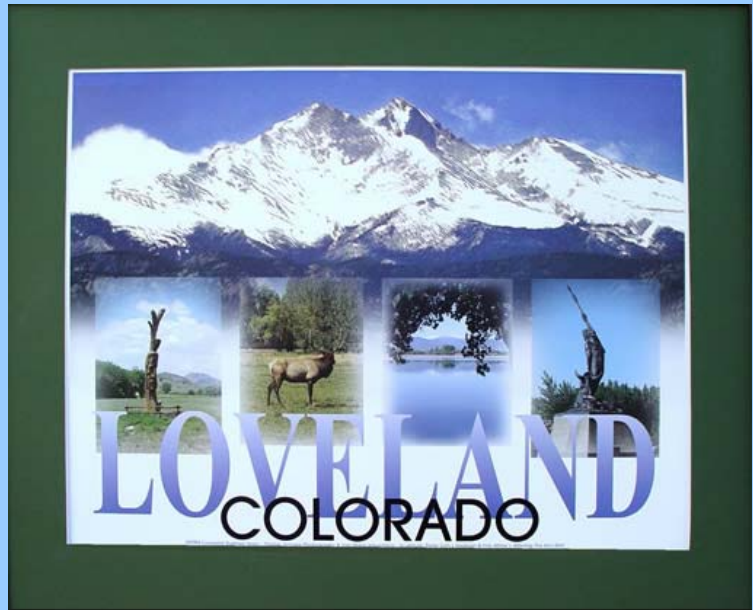
My name is Ashley Iverson and I have been employed by the City of Loveland for over 5 years, and have worked as a Permit Tech for the Building Division for a year and a half. I was just promoted to Senior Permit Tech this month. I enjoy the work and am looking forward to a career in this field!

I am getting married to the love of my life this October, and spend most of my time out of work hiking, camping, fishing, and playing with my pup. Happy to be a part of CAPT!!!

**A HUGE thank you to the City of Loveland for hosting the May CAPT Meeting. Great job!**

Steve Adams, City Manager, welcomed the group and told us a bit about Loveland.

Jessie conducted the business meeting and introduced our speaker for the days agenda.



It was a pleasure to spend the morning with Shaunna Mozingo. Shaunna relates to Permit Technicians and always brings useful information in an amazing format. "The House as a System" was no exception. We learned valuable information on building science principles meeting code requirements. The course included how moisture and air get into our building assemblies and why the code is now addressing these issues. Another topic was the building envelope, the mechanical and lighting systems and how they all impact each other. It's important to know that changes in these affect the entire system. It was a fun class with lots of knowledge to take with us.







## WHAT IS HAIL?

**Hail** is a form of solid precipitation. It is distinct from ice pellets (sleet), though the two are often confused. It consists of balls or irregular lumps of ice, each of which is called a **hailstone**. Ice pellets (sleet) falls generally in cold weather while hail growth is greatly inhibited during cold surface temperatures.

Unlike other forms of water ice such as graupel, which is made of rime, and ice pellets, which are smaller and translucent, hailstones usually measure between 5 millimeters and 15 centimeters (6 in) in diameter. The METAR reporting code for hail 5 mm (0.20 in) or greater is **GR**, while smaller hailstones and graupel are coded **GS**.

Hail is possible within most thunderstorms as it is produced by cumulonimbus, and within 2 nautical miles (3.7 km) of the parent storm. Hail formation requires environments of strong, upward motion of air with the parent thunderstorm (similar to tornadoes) and lowered heights of the freezing level. In the mid-latitudes, hail forms near the interiors of continents, while in the tropics, it tends to be confined to high elevations.

There are methods available to detect hail-producing thunderstorms using weather satellites and weather radar imagery. Hailstones generally fall at higher speeds as they grow in size, though complicating factors such as melting, friction with air, wind, and interaction with rain and other hailstones can slow their descent through Earth's atmosphere. Severe weather warnings are issued for hail when the stones reach a damaging size, as it can cause serious damage to human-made structures and, most commonly, farmers' crops.

## COLORADO HAIL STATISTICS

Colorado's damaging hail season is considered to be from mid-April to mid-August. Colorado's Front Range is located in the heart of "Hail Alley," which receives the highest frequency of large hail in North America and most of the world, so residents usually can count on three or four catastrophic (defined as at least \$25 million in insured damage) hailstorms every year. In the last 10 years, hailstorms have caused more than \$3 billion in insured damage in Colorado. As a result, up to one-half of your homeowners insurance premium may be going toward hail and wind damage costs. If you carry comprehensive coverage on your auto policy, hail damage is covered by almost all insurance companies. Comprehensive insurance is optional, but if you live in a hail prone area, the insurance industry recommends this coverage.



## PermitTechNation

[www.permittechnation.org](http://www.permittechnation.org)

PermitTechNation was founded by Permit Technicians from across the United States via networking through ICC and the Annual Conferences.

**CAPT is a member of  
PermitTechNation**



### Colorado Chapter of the International Code Council Meeting Announcement

Date: August 24 & 25, 2017

Location: Steamboat Springs, CO

Visit: [www.coloradochaptericc.org](http://www.coloradochaptericc.org) for meeting agenda, map and information.

### ICC CONTACTS

1-888-ICC-SAFE (422-7233)

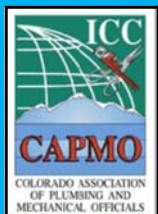
Web address: [www.iccsafe.org](http://www.iccsafe.org)

International Code Campus:

[www.icccampus.org](http://www.icccampus.org)



**eNews** - The International Code Council's award-winning electronic newsletter, distributed monthly, keeps members and interested parties up to date with International Code Council programs and relevant industry activities. Read the current issue at [www.iccsafe.org/news](http://www.iccsafe.org/news)



### Colorado Association of Plumbing and Mechanical Officials

Sam Dardano  
President

Next meeting Thursday, July 20, 2017  
Jefferson County



### Fire Marshal's Association of Colorado

Bruce Kral / President

[www.fmac-co.org](http://www.fmac-co.org)



## **IMPORTANT NOTICE:**

**CAPT is currently seeking 2018 nominations. The election will take place at the November Annual Business Meeting. If you are interested in serving on the CAPT Board, please contact any of the officers listed on the front page for information about duties and responsibilities.**

**Or attend the next board meeting to learn what its all about:  
Wednesday, October 4, 2017  
Town of Erie**