

# TECH TALK

FALL/WINTER 2012

Whether we want to admit it or not winter will soon be upon us. The days are getting shorter and the cold weather is moving in. It's time to winterize and get ready for the snow. Blow out the irrigation lines, clean gutters and downspouts, inspect and clean the fireplace and chimney, keep vents and interior doors open and inspect fire and smoke alarms. Taking time to prepare your home to withstand winter conditions can help prevent time consuming and costly repairs.

The colder weather also means it is time for the holiday season and the CAPT annual meeting. As the host of the annual meeting, I would like to personally invite all of you to join us November 28<sup>th</sup> at Arapahoe County.

We have a great program and luncheon planned – look forward to seeing everyone there.

*Darla Brooks*

## **PRESIDENT**

*Darla Brooks*  
County of Arapahoe  
720-874-6609  
[dbrooks@co.arapahoe.co.us](mailto:dbrooks@co.arapahoe.co.us)

## **VICE PRESIDENT**

*Melinda Helmer*  
Town of Erie  
303-926-2710  
[mhelmer@erieco.gov](mailto:mhelmer@erieco.gov)

## **TREASURER**

*Ann Freiberg*  
City of Commerce City  
303-289-3725  
[afreiberg@c3gov.com](mailto:afreiberg@c3gov.com)

## **DIRECTORS**

*Kimberly Segura-Bates*  
City of Lakewood  
303-987-7572  
[Kimseg@lakewood.org](mailto:Kimseg@lakewood.org)

*Melissa Mackey*  
City of Wheat Ridge  
303-237-8929  
[mmackey@ci.wheatridge.co.us](mailto:mmackey@ci.wheatridge.co.us)

*Debe Wixson*  
City of Westminster  
303-658-2076  
[dwixson@cityofwestminster.us](mailto:dwixson@cityofwestminster.us)

## **PAST PRESIDENT**

*Nicole Montgomery*  
City of Westminster  
303-658-2074  
[nmontgom@cityofwestminster.us](mailto:nmontgom@cityofwestminster.us)



# NOVEMBER CAPT MEETING

## Join us—

**WEDNESDAY,  
NOVEMBER 28, 2012**

Arapahoe County  
6954 S Lima Street  
Centennial Colorado

### AGENDA

**Registration—8:30 am**

**9:00 am—12 Noon**

**Self Defense - at work, at home, at play!**

*Presented by Dennis Phelps*

This Self Defense Prevention Course provides knowledge, training and empowerment that enables individuals to avoid becoming a victim. This course has been taught to and helped hundreds of individuals state wide. The course offers training in elevated awareness of dangerous situations, practical techniques for verbally diffusing a potential conflict, managing the effects of fear and adrenaline, and simple but effective defensive techniques that include ground fighting and deceptive strategies.

**12 Noon—2 pm**  
Annual Business Meeting  
Luncheon

Please RSVP to: Darla Brooks

CAPT Program Chair

720-874-6609 or  
[dbrooks@co.arapahoe.co.us](mailto:dbrooks@co.arapahoe.co.us)

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)

**TENTATIVE  
2013 CAPT MEETINGS**  
**May 15th  
Jefferson County**  
**August 21st  
Breckenridge**  
**November 13th  
Wheat Ridge**

## Annual Food Drive

Bring your canned food items and/or toiletry items for distribution to a local food bank.



### 2013 Slate of Officers:

**Darla Brooks—President**  
**Melinda Helmer—Vice President**  
**Ann Freiberg—Treasurer**

#### Board of Directors

**Kimberly Segura Bates**  
**Melissa Mackey**  
**Debe Wixson**

**Past President—Nicole Montgomery**



*2013 CAPT*



# TALK OF THE TRADE

## How Do Wind Turbines Work?

Wind is a form of solar energy and is a result of the uneven heating of the atmosphere by the sun, the irregularities of the earth's surface, and the rotation of the earth. Wind flow patterns and speeds vary greatly across the United States and are modified by bodies of water, vegetation, and differences in terrain. Humans use this wind flow, or motion energy, for many purposes: sailing, flying a kite, and even generating electricity.

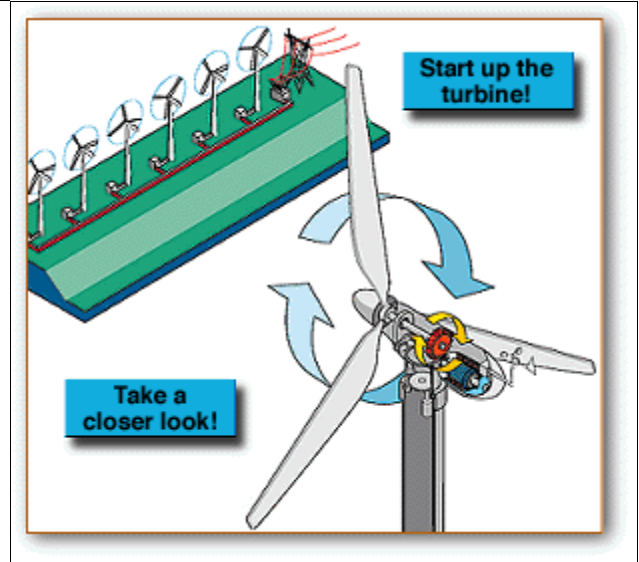
The terms wind energy or wind power describe the process by which the wind is used to generate mechanical power or electricity. Wind turbines convert the kinetic energy in the wind into mechanical power. This mechanical power can be used for specific tasks (such as grinding grain or pumping water) or a generator can convert this mechanical power into electricity.

So how do wind turbines make electricity? Simply stated, a wind turbine works the opposite of a fan. Instead of using electricity to make wind, like a fan, wind turbines use wind to make electricity. The wind turns the blades, which spin a shaft, which connects to a generator and makes electricity.

## Types of Wind Turbines

Modern wind turbines fall into two basic groups: the horizontal-axis variety and the vertical-axis design, like the eggbeater-style, named after its French inventor. Horizontal-axis wind turbines typically either have two or three blades. These three-bladed wind turbines are operated "upwind," with the blades facing into the wind.

Wind turbines can be built on land or offshore in large bodies of water like oceans and lakes. Though the United States does not currently have any offshore wind turbines, the Department of Energy is funding efforts that will make this technology available in U.S. waters.



## DID YOU KNOW

**Many ceiling fans come with a handy switch that reverses the direction of the blades. Counterclockwise rotation produces cooling breezes while switching to clockwise makes it warmer: air pooled near the ceiling is circulated back into the living space - cutting your heating costs as much as 10%!**



May CAPT Meeting—Thank you Julie Conde, Jane Madrid and the City of Longmont for an inspirational program “Accomplishing Anything” presented by Tara Powers—Zoe Training. Following lunch we were treated to a guided tour of the beautiful St Vrain Greenway. What a great way to spend a sunny day in Longmont.





July CAPT Meeting—Thank you Tami Archer, Cindy Linker and the City of Black Hawk for a morning of Plumbing 101 presented by Pat Clark, Jefferson County Inspector, and a walk through the past presented by Deon Wolfenbarger. An educational and historic day, a wonderful goodie bag and spectacular lunch to boot—what a great meeting!



# What's Happening



Colorado Chapter  
of the International  
Code Council

## Next Meeting Date

**December 6/7—Colorado Springs  
Broadmoor Hotel**

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



Fire Marshal's  
Association of  
Colorado

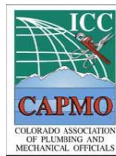
David Lowrey, President  
303-441-4356

[lowreyd@bouldercolorado.gov](mailto:lowreyd@bouldercolorado.gov)  
[www.co-fmac.org](http://www.co-fmac.org)

## Congratulations

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/milestone to:

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



Colorado Association of  
Plumbing and Mechanical  
Officials

## Meeting Dates/Jefferson County Annual Business Meeting Breakfast

**November 15, 2012**

Sam Dardano, President  
[samdardanojr@msn.com](mailto:samdardanojr@msn.com)  
303-912-7008



## 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)



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)



# Permit Certification Testing

## Exam Details and Fees

\$180.00 computerized

60 multiple-choice questions—

Open Book—2 hour limit

General Administration 39%

Legal Aspects 22%

Plans and Documents 25%

Zoning and Site Development 14%

Number to call to schedule an exam

1-800-275-8301

<http://www.iccsafe.org/certification>

2009 International Code-based National Certification exams will continue to be offered via computer based testing through 2012. Paper/Pencil exams are available on the 2006, 2009 and 2012 codes.

Books needed for the Certified Permit Technician test:

2009 IBC (Chapters 1-3, 6, 12 and 34)

2009 International Zoning Code

2002 Legal Aspects of Code Administration

Basic Code Enforcement—8th printing

## CAPT Library

- 📖 2009 International Building Code
- 📖 2009 International Zoning Code
- 📖 2002 Legal Aspects of Code Administration
- 📖 2002 Legal Aspects Workbook
- 📖 Basic Code Enforcement
- 📖 VHS Video/World Trade Center: A Modern Marvel (1973-2001)
- 📖 VHS Video/The Quiet Heroes
- 📖 DVD People Helping People



Study Materials available for checkout to CAPT members.

### Contact:

Leslie Carpenter at [lcarpent@jeffco.us](mailto:lcarpent@jeffco.us) or 303-271-8287 if you would like to check out materials from the library.