

December 2004
Newsletter

Included in this
month's edition:

**Broadmoor
Annual
Business
Meeting.....1**

**Colorado IPC
Adoptions.....2**

**Job
Openings.....2**

**Asphalt
Shingles and
High Wind.....3**

**New CCICC
Officers and
Board
Members.....4**

On the web at:

**coloradochaptericc.
org**

Colorado Chapter, Inc. of the International Code Council

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Broadmoor Annual Business Meeting Tom Meyers



Once again, the final meeting of the year has proven to be one of the best. Dave Tyree and the program committee did a commendable job of selecting the facilities and meeting content.

Laura Scott from ICC provided a compelling presentation on increasing the credibility of the code official. Laura's credibility was enhanced by her previous experience as a code official and now as a member of ICC staff. Her program provided the membership with methods to assess current effectiveness and provide an action plan for improvement.

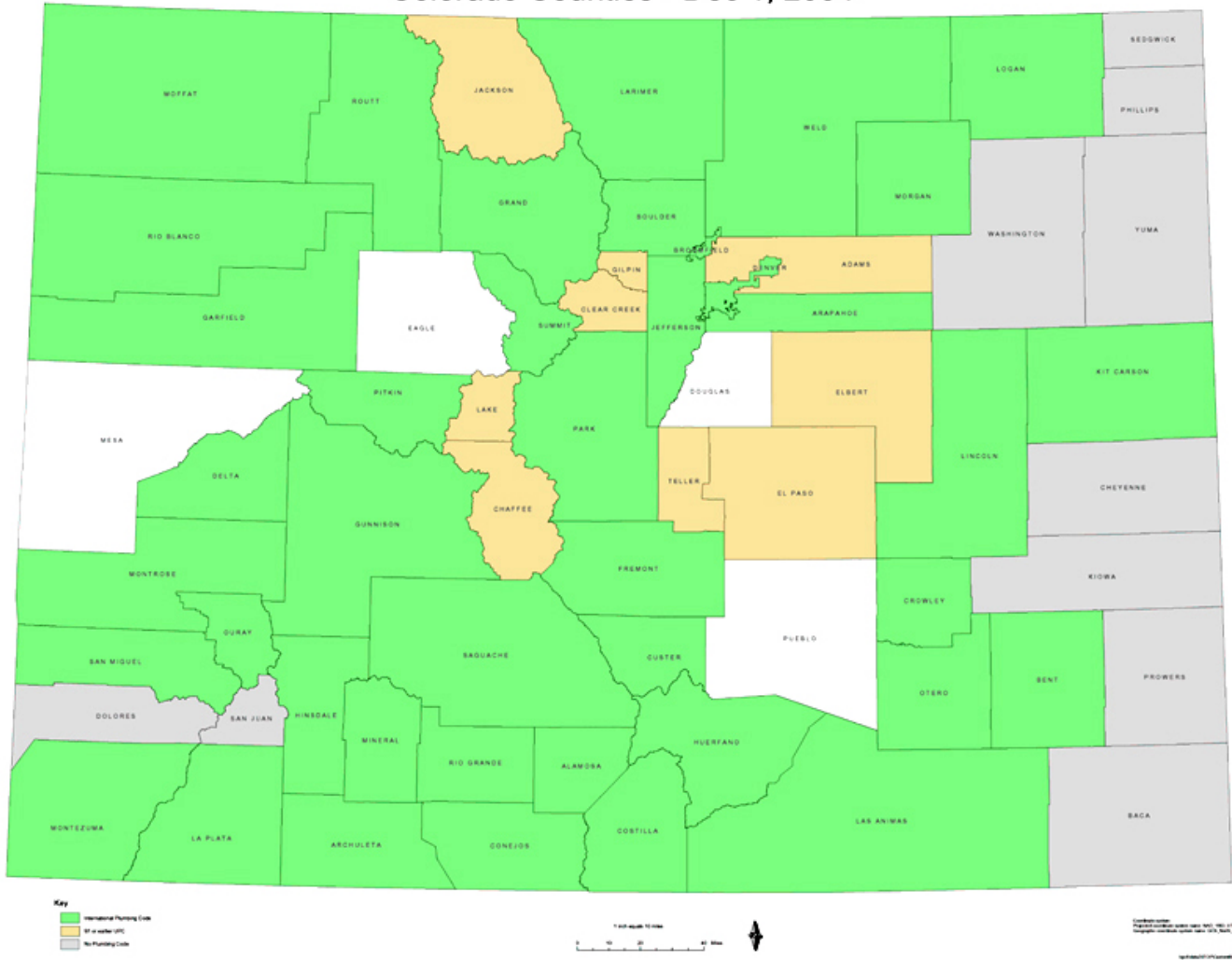
The afternoon business meeting culminated with the election of new officers for 2005. (Page 4)

The Thursday evening banquet was elegant and well attended. Dave Horras provided a presentation on the Chapter's 2004 accomplishments including being named a merit winner at the ICC's ABM for Chapter of the Year.

Mr. Horras presented the President's Award to Dan Nickle. Dan is an obvious candidate for the award, his tireless support for the Chapter is unmatched. Mr. Nickle, awards committee chairman, presented the Chapter's most prestigious award, the Beryl Wallace Award, to Stephen Thomas. Steve was recognized for his contributions to the Chapter on both the local and national level. He was specifically commended for raising the bar on the quality of building code training in Colorado and around the nation. At the conclusion of the ceremony, Mr. Horras turned over the "gavel" (golden nail gun) to incoming President JD Potter. Mr. Potter graciously addressed the audience stating that he "has some very big shoes to fill". If anyone has seen the size of JD's boots, they will know that he is completely equipped for the task. The Chapter will be in very good hands in 2005.



Adopted Plumbing Codes Colorado Counties - Dec 1, 2004



International Plumbing Code Adoptions Continue in Colorado!

The number of counties adopting the International Plumbing Code continues to increase. The areas represented in green have adopted the IPC. Counties in gray do not adopt a plumbing code. Counties in yellow have the 1997 or earlier edition of the Uniform Plumbing Code.

Colorado Job Announcements:

Plans Examiner – Eagle County

\$20.00-24.39/hr (DOQ) - Associate Degree with emphasis in building construction/ inspection technology, construction management, architecture, engineering. Four or more years of full-time employment as building inspector with minimum 2 as plans examiner. Visit www.eaglecounty.us or Jobline at 970-328-8891

Roofing Inspector – Colorado Code Consulting

Full or part time temporary position to assist with inspections in jurisdictions suffering from recent hail storms. Salary dependent upon qualifications. Contact Steve Thomas 303-400-6564

Asphalt Shingles and High Wind

Tim Pate
City & County of
Broomfield



The 2003 IBC and 2003 IRC have provisions that regulate asphalt shingles being installed in “high wind areas” (110 mph or greater). Numerous jurisdictions within the front range of Colorado fall into this high wind area with their adopted wind design being 110 mph or greater. There appears to be much confusion about what the Codes are regulating and requiring. 2003 IRC Section R904.1 requires that “roof assemblies shall be applied in accordance with this chapter and the manufacturer’s installation instructions.” 2003 IRC Section R905.2.6 requires that “Asphalt shingles shall have the minimum number of fasteners required by the manufacturer. For roofs located where the basic wind speed per Figure R301.2(4) is 110 mph or greater, special methods of fastening are required. Special fastening methods shall be tested in accordance with ASTM D 3161, modified to use a wind speed of 110 mph.”

2000 IRC Section R905.2.6 required a minimum of six fasteners per shingle when located within the special wind zone per Figure R301.2(4) including the Front Range of Colorado. There was a successful Code change (RB91-01) which changed this prescriptive requirement of six fasteners to the present wording requiring conformance with ASTM D 3161, modified to use a wind speed of 110 mph. The proponent’s reason stated “There is no basis in science or any testing demonstrating shingles with six nails will withstand the wind speeds stipulated by the Code. In fact, a tested assembly may only require four nails per shingle. Section R301.2.1 requires all “buildings and portions thereof” to meet the wind load design criteria of Chapter 3. There is no justification for allowing exceptions for one type of roofing material while all others are required to prove they meet the wind load criteria of the Code.”

There was a successful Code change (RB236-03/04) in Nashville which added the wording “Asphalt shingle wrappers shall bear a label indicating compliance with ASTM D 3161 Class F.” The reason from proponent was “...At this time, several manufacturers who have products that pass the requirement (complying with ASTM D 3161, as modified to 110 mph) do not label their products to indicate conformance to the standard specified in Section R905.2.6. In order for building officials, consumers, roofers, suppliers, etc. to be able to properly identify an approved product, the asphalt shingle wrappers should be labeled to ensure compliance with the provisions of the IRC for high wind areas.”

The following is an explanation of ASTM D 3161 – 03b from Mike Noone, Chairman, ASTM Subcommittee D08-02 which

oversees the ASTM D3161 test:

“ASTM D3161 is the primary wind test method used in the asphalt shingle industry for certification of compliance to code requirements. The method is used by Underwriter Laboratories and other Test Labs to give manufacturers an independent assessment of their products. It has existed, and been used successfully, for many years.

The Test Requirements are that the fan-induced wind is applied at the designated test velocity for the entire duration of the test – i.e. for 2 hours, or until failure occurs. The time involved is obviously much greater than 3 seconds, and relates to a continuous exposure to the stated velocity.

The Current version of ASTM D 3161 (D3161 – 03b) has three Classes:

Class “A” denotes Passing the test at 60 mph

Class “D” denotes Passing the test at 90 mph

Class “F” denotes Passing the test at 110 mph.

Shingles manufacturers indicate the “Class” for a specific shingle design on their wrappers and in their literature. Shingle Manufacturers give wind resistance warranties which are related to the Class that the shingles have been certified to “Pass.”

The Manufacturers Warranty is a separate issue from the “Technical” aspects of the Test Methods and the Codes. In fact, Warranty Issues are NOT permitted to enter into any of the discussions at ASTM. A Manufacturer Issues a “Limited Wind Warranty” specific to its shingles. The wording and precise conditions of applicability, differ from one Manufacturer to another. ALL Manufacturers require that the products be applied in strict accordance with their application instructions (on every package). Misapplication and poor workmanship, are major causes of shingle “Blow-offs.” Of course, shingles rely on their self-sealing adhesive mechanism to be effective, and there are frequently “issues” when the shingles have not had sufficient time at temperature for the sealant to activate. The D3161 test requires that the shingles are fully sealed before testing.

The “MPH” velocity referred to in D3161 is strictly the “TEST VELOCITY.” It is held constant for 2 hours. Technically this velocity is not identical to either the “fastest mile” or the “3 second gust” in a wind. However, since it is the velocity that the shingles are exposed to for a full 2 hours, it is in fact, appropriate to describe a D3161 – Class “F” as “equivalent to passing both a 3 second gust of 110 mph and a fastest mile of 110 mph.”



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International
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with contributions!

New CCICC Officers and Board of Directors

The Chapter membership voted for Colorado Chapter officers and board members at the Annual Business Meeting in Colorado Springs. The following individuals were elected for 2005:

President	J.D. Potter	Pueblo Regional
1st Vice President	Barbara Kuettel	Westminster
2nd Vice President	Patrick Buckley	Berthoud
Secretary	Stephen Kanipe	Aspen
Board	Jim Wray	Winter Park
Board	Charlie Stanley	Breckenridge
Board	Corey Schmidt	Boulder
Board	Pete Bemelen	Denver
Board	Shaunna Mozingo	Glenwood Springs

The **Treasurer's** position is appointed by the Board of Directors. **Steve Byer of Arapahoe County** was elected by the new board during the Friday, December 10th board meeting.