

PART II

MASONRY CHIMNEYS:

are they Really Better?

by Paul B. Stegmier

The NEW NFPA and MASONRY CHIMNEY CONSIDERATIONS:

From the foregoing point of view, some of the most significant changes brought forth in the 1984 NFPA 211 code were related to the installation and construction standards of masonry chimneys. The primary emphasis is placed on air space clearance from combustibles and upon material allowed for use. to review some of the chimney related highlights of the new 211 may be in order here.

BASIC UNITS OF CONSTRUCTION-Masonry chimneys must be constructed of solid masonry units or waterproof modular concrete blocks of 4" nominal thickness, or of reinforced portland or refractory cement of actual thickness not less than 4". Rubble stone masonry chimneys must be no less than 12" thick. Hollow masonry units must not be less than 6" nominal thickness, and the cells must be fully grouted. Modular block must be waterproofed.

The basic changes here are related to modular block. The 4" thick hollow modular block that has been so commonly used for masonry chimneys does not have the thermal mass to provide long term protection against heat transfer to combustibles. In addition, the water proofing requirement addresses the often noted problem of water absorption in this type of material, and the potential for spalling and cracking damage which occurs during freeze-thaw cycles.

LININGS-Linings must be of 5/8" fire clay or other such materials as stainless steel, formed in place, refractory, cast refractory, or any other approved material that will resist corrosion, softening or cracking from flue gases at temperatures up to 1,800 degrees F. Fire clay liners should be installed ahead of the construction of the

chimney, carefully bedded in refractory mortar (ASTM 105 medium duty or the equivalent), with close fitting joints wiped smooth on the inside. The fire clay lining shall be separated from the chimney wall by at least 1 1/2" air space. This space shall not be used to make a good joint and hold the liners in position.

Fire clay liners long have been standard material for masonry chimney construction. Unfortunately, there seems to be as many ways to install them as there are masons. The use of refractory cement to set and join these tiles has been referred to in past versions of NFPA and other codes, but is more succinctly mentioned in the new 211. Using the same mortar to set the tiles as is used to set the brick block will result in a weak, moisture and creosote permeable and thermally stressful joint. Cracking of these joints, which is inevitable during hot burn or chimney fire conditions, will allow further moisture and creosote penetrations behind the liners. Here subsequent freezing and thawing and/or chimney fires can cause significant damage.

The practice of not wiping the joints after they are set is also quite common. In many cases, this slop causes flue restrictions, catch points for creosote build up, and hinderances to proper cleaning. Cleaning activities can also easily dislodge large chunks of joint material, leaving gaps which can increase the aforementioned problem of liquid seepage and also decrease draft.

The 1/2" air space requirement between the fire clay liner and the chimney wall is critical. Many cases of liners which are solidly packed with mortar are noted in the field. These systems have no room for thermal expansion and are likely to crack the entire chimney structure during the first instance of thermal stress.

IFPA also recognizes that materials other than fire clay are coming into use because of their potential superiority. The new 211 sets no material specifications for these alternative lining materials, other than basic performance criteria, but does allow for their use.

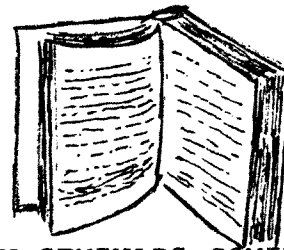
CLEARANCE TO COMBUSTIBLES-Air space clearances from combustibles for chimney inside the building shall be at least 2". Chimneys constructed entirely outside the structure shall have at least 1" air clearance from combustibles. These spaces shall not be filled. However, firestopping between floors must be installed. Non-combustible trim may be used to prevent entry to debris into the air space.

The issue of clearance has been one of the most ignored and/or misunderstood features of past versions of this code. In the past "clearance to combustibles" was thought to mean only that burnable materials could not be placed near the chimney structure. Many cases of fires caused by fiberglass insulation packed into the clearance spaces have been noted. The new 211 clearly emphasizes air space when clearance to combustibles are mentioned. The clear definition of the difference between an inside and outside chimney is also now included. If any portion of the chimney lies inside the plane of the outer-most wall of the structure, it is considered an inside chimney and must have a 2" air space clearance to any combustible.

The issue of air space clearance is one of the most often neglected criteria in masonry chimney construction. In the field today, it is rare to find a chimney constructed with proper clearance. This is a frequent cause of fires.

WYTHES-When more than one flue is constructed in a chimney, a separation between them is well known. Problems of poor draft, flue gas communication between flues, and lack of structural integrity have been reported in droves in the past 10 years.

Past versions of the code allow for up to two flues to share the same chimney without separation, but too many field problems have been noted to allow this practice to continue.



EDUCATION SEMINARS COMING TO AREA

Three education seminars are being offered in February. The first one is the 13th, 14th & 15th. It is being offered by the Building Department Inc. and is titled Non Structural Plan Review. The instructors will be John Hatfield and "Rusty" Price. For more information contact Sue Burnett at 695-1274.

The second class is being sponsored by the student chapter of the AGC. It is a seminar on the 1982 Uniform Building Code and is being taught by Ken Christianson from ICBO staff. The dates for this seminar are February 21-22. For information call Allen Wilson at 491-7498.

February 27-28 will bring a seminar on the 1982 Uniform Plumbing Code. The instructor will be Mario J. Fala, author of the Uniform Plumbing Code Study Guide and Residential Plumbing Inspectors Manual. The class is being sponsored by the Colorado chapter IAPMO and Regional Inspectors Association. For information regarding this seminar contact Wayne Janish at 279-3331.

ALL MATERIALS ARE TOXIC,
SENATE FIRE HEARING TOLD*

Toxicity is a problem in the smoke of all fires, regardless of the type of material that is burning, fire and materials experts said at a Senate hearing on fire safety last week.

Witnesses appearing before the Senate Labor and Human Resources Committee generally agreed that more research into realistic fire modeling and other aspects of fire is needed before any attempt can be made to develop new fire and toxicity regulations.

Committee Chairman Orrin Hatch (R-Utah) said he called the hearing to help Congress learn what areas of fire safety should receive priority attention. Sen. Dan Quayle (R-Ind.), who had requested the hearings, said the proliferation of synthetic building materials since World War II and the consequent emergence of new toxins released in fires has prompted questions about whether these new materials reduce the chance of escape from a fire.

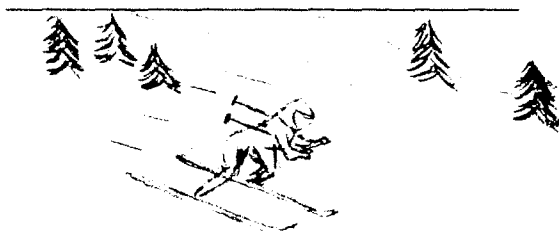
Wayne P. Ellis, a consultant on standards who testified on behalf of the National Institute of Building Sciences (NIBS), told the committee that all smoke is toxic. "Very little can be done about toxicity itself, short of eliminating all combustible materials from buildings," he said.

Dr. John W. Lyons, acting deputy director of the National Bureau of Standards (NBS), told the panel that synthetic materials are not necessarily more toxic than natural materials. Citing NBC test results published in 1982, Lyons said three natural materials--red oak, wool and Douglas fir--were shown to be more toxic than polystyrene and other synthetic materials. Furthermore, even though other synthetic materials such as PVC and polyphenyl-sulfone were shown to be more toxic,

the "confidence limits" of the tests are wide enough to "permit considerable overlap." Thus, PVC cannot be said to be substantially more toxic than Douglas fir, Lyons said.

Richard C. Brooke, research executive at Borg-Warner Chemicals and chairman of the Society of the Plastics Industry's coordinating committee on consumer safety, said that while the number of fire deaths is still far too high compared with Europe, statistics show the U.S. rate declined by 25% between 1971 and 1981 while the use of plastics has doubled in that period.

* Reprinted from an article published in Engineering News Record, July 28, 1983



3rd ANNUAL YELLOW SNOW INVITATIONAL

The snow is flying again and ski season is here. The tentative schedule is shown below for this epic event in Snowmass.

Friday March 29 - Open skiing

Saturday March 30 - Open skiing & lessons

Bus available to go shopping in Aspen

Hospitality Room Dinner

Sunday March 31 - Skiing on Mt Picnic Races/Challenges
Hospitality Room

Monday April 1 - Pictures
Yellow Snow Invitational

More details in future newsletter
SEE YOU THERE !!!

CK

ODDS n ENDS

LETTER FROM THE EDITOR

Dear Friends,

Due to "life" pressures Ken and I are unable to continue our work with the newsletter.

It's been a fun year passing on all the information people have so graciously contributed.

We want to thank everyone for their input and to encourage you to continue submitting items.

This is your newsletter and your information, so keep it fed and nourished.

Bye!

Ken and Sue Burnett

1985 Meeting Agenda

Colorado Chapter I.C.B.O.

February 8 - Glendale, CO

April 18, 19 - Joint Meeting with Utah
Location to be determined

June 14 - Summit County

August 15, 16 - Boulder County

October 25 - Arvada, CO

December 5,6 - Lakewood, CO

HELP WANTED

Editor for an up and coming newsletter. No pay but a lot of satisfaction and fun. We need someone to continue the excellence of this periodical. Please contact Jerry Booth at 453-1585 if you are interested.

JOB OPPORTUNITY

Teller County

Building Inspector. Requires some experience in R-3 plan review. Prefer ICBO certification but not required. Salary \$1,600/month, negotiable. Contact or send resume to:

Ron Walker
Teller County Bldg. Dept.
P.O. Box 1886
Woodland Park, CO
PH: 687-3048

1985 ELECTION RESULTS

PRESIDENT - Gerald O. Booth
FIRST VICE - Gerald George
SECOND VICE - Tom Thompson
SECRETARY - Larry Pirkle
TREASURER - Steve Thomas

BOARD OF DIRECTORS

Noel Vargo
Gregory Keith
Gerald Best
John Price
Robert Foote

COMMITTEE APPOINTMENTS

You should have received the tentative list of committees. If you are not listed and you would like to work on a committee, contact Jerry Booth at 453-1585. If your name was misspelled or address was incorrect, you should also get a hold of Jerry so that the correction can be made. Thanks for volunteering; it's the only way this Chapter can be the best ever.

IN MEMORY

-JOE FRENCH-

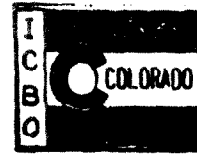
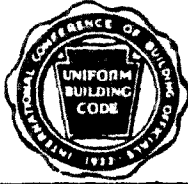
It saddens us to report that Joe French, Inspector for the City of Littleton, has succumbed to cancer. His six month battle ended December 13, 1984. He will be greatly missed by all who knew him.

IN MEMORY

-BILL SCHILB-

We must also note the passing of Mr. Bill Schilb - Plans Examiner for Summit County and Inspector for the Town of Dillon. Mr. Schilb was survived by a wife and three children.

COLORADO CHAPTER NEWS



MAR./APR. *85* VOL. 3 NO. 6

EXECUTIVE CHAMBERS

EXECUTIVE ORDER PROCLAMATION BUILDING SAFETY WEEK April 14-20, 1985



Richard D. Lamm,
Governor

WHEREAS, it is the responsibility of state and local governments of the United States to adopt legislation, and administer laws and ordinances to protect the health, safety and welfare of their citizens; and

WHEREAS, among the most basic laws and ordinances are those that assure the public's health and safety in the buildings in which people live, work and play; and

WHEREAS, to assure safety, the State of Colorado, in conjunction with counties and cities across the state, enforces uniform construction and maintenance standards adopted by the State Housing Board and local governments; and

WHEREAS, it is through the efforts of state and local building officials and their cooperative relationship with the construction industry that the administration of these health and safety regulations is assured; and

WHEREAS, the Colorado Chapter of the International Conference of Building Officials realizes that Colorado's building safety program can be successful only through the participation of concerned individuals;

NOW, THEREFORE, I, Richard D. Lamm, Governor of the State of Colorado, do hereby proclaim April 14-20, 1985, as

BUILDING SAFETY WEEK

in the State of Colorado.

GIVEN under my hand and the Executive Seal of the State of Colorado, this fifth day of March, A.D. 1985.



Richard D. Lamm
Richard D. Lamm
Governor

part III

MASONRY CHIMNEY DESIGN CONSIDERATIONS

If possible to meet all of the requirements of the new NFPA 211 code and still build a poor chimney. A most frequently found mistake in design is in building an oversized system for the appliance to be used. The old adage that "bigger is better" rarely applies here. Sizing of the flue exactly to the size of the appliance being served is becoming more important as solid fuel appliances become better designed and more efficient. An oversized flue takes longer to warm up, provides less than adequate draft and builds creosote at a rapid rate during low fire modes. During high fire conditions, it may provide too much draft and cause overfire conditions to exist. An oversized flue can physically go longer between cleanings before draft is impaired, thereby creating circumstances that allow for extreme loads of creosote that could cause excessive damage to chimneys during chimney fire conditions. The best size is always around the same size as the appliance flue collar, and never more than 25 percent larger. The insert, hearth-stove direct connect issue is related to this problem, and gives rise to the recommendation that if appliances must use fireplace chimneys, the safest circumstances and best performance for a product can be attained only when the fireplace chimney is lined from the appliance to the top of the chimney.

Flue shapes also must be considered. Rectangular and square tiles are still most commonly used in the field, even though round tiles perform better than either. The real reason why this practice is favored among masons is that round tiles roll off the truck or scaffolding. If the choice were to be made base upon optimum performance of the chimney, round tiles would be the best, followed by square and then rectangular units.

CHOOSING THE BEST CHIMNEY

If I had the choice today of using an existing masonry or a new factory built system, and safety and performance were my priority considerations, I would choose the latter. The existing stock of masonry chimney systems in the field is, to a great extent, improperly designed, built of incorrect materials, and/or constructed too close to combustibles to be used with solid fuels in a safe manner. There are similar concerns about existing metal chimneys. Many of these units are misinstalled. If the appliance I were to use was of a new, high efficiency design, I would opt for the metal system as well, or choose a masonry system with a continuous stainless liner or one of the new insulated, formed in place liners. I would not choose a masonry chimney with conventional clay tile liners unless I were using an appliance of average efficiency, and that chimney were constructed of the New NFPA code, and built inside the structure.

The arguments as to which is safest will continue for years to come. We know from field experience and laboratory tests that conventional masonry chimneys cannot stand the same temperature extremes that metal chimneys must be tested to.

But we also know that the thermal mass of masonry chimneys can give us protection against heat transfer in less critical over-fire or chimney fire situations. We also know that either type of chimney can be damaged or destroyed under extreme chimney fire conditions, and can cause structural fire loss when improper installations are made.

In the long run, regardless of the choice, keep chimneys clean, inspect them frequently, respect their limitations, and learn more about properly matching the chimney and the appliance.

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Colorado Chapter, Inc.

OF THE

**INTERNATIONAL CONFERENCE OF
BUILDING OFFICIALS**

P.O. Box 961
Arvada, Colorado 80001

**ANNUAL UTAH - COLORADO JOINT CHAPTER
TRAINING WORKSHOP**

PLACE: Vernal, Utah DATE: April 25 & 26, 1985
 Sheraton Inn-Vernal COST: \$35.00/Attendee Wives \$20.00

Thursday April 25

8:00 - 8:30	a.m.	Registration	
8:30 - 9:30	a.m.	Exterior Wall Construction	Don Davies
9:30 - 10:00	a.m.	Chapter 5	Ann Robinson
10:00 - 10:15	a.m.	Break	
10:15 - 10:45	a.m.	Chapter 5 Continued	Ann Robinson
10:45 - 12:00	a.m.	Area Separation Walls	Jody Hilton
12:00 - 1:00	p.m.	Lunch	
1:00 - 2:00	p.m.	Chapter 38	Ron Ivie
2:00 - 2:15	p.m.	Break	
2:15 - 3:00	p.m.	1 hour fire rated Const.	Al Carlsen

Friday April 26

8:30 - 10:00	a.m.	Code Changes	John Hatfield Rusty Price
10:00 - 10:15	a.m.	Break	
10:15 - 12:00	a.m.	Code Change Cont.	John Hatfield Rusty Price
12:00 - 1:00	p.m.	Lunch	
1:00 - 2:00	p.m.	Code Change Cont.	John Hatfield Rusty Price
2:00 - 2:15	p.m.	Break	
2:15 - 3:00	p.m.	Code Changes Process	Gerry George Tom Thompson

NOTE: There is a golf course in Vernal. Don't forget your clubs!
Rooms are available on first come first serve. Contact
Linda Carnagie @ Sheraton Inn

ATTENTION

Counterfeit UL Labels

NORTHBROOK, Ill., Feb. 14--Underwriters Laboratories Inc. (UL) has learned that fire doors with unauthorized counterfeit aluminum labels bearing UL's Registered Mark are being offered for sale in the United States. "These doors may fail to perform their fire containment function," said a spokesman for UL. "We have examined a sample and found significant differences from suitable UL construction requirements."

The counterfeit label is attached directly to the fire doors and has the wording "Underwriters Laboratories Inc., Classified Composite Fire Door" but does not include a manufacturer's name or file number (an "R" followed by a series of numbers). Additional wording on the suspect label includes a fire rating and maximum rated temperature rise. The validity of these ratings is in serious question and should be of concern to owners, inspection authorities, architects, and insurers.

UL seeks information on any fire door suspected of bearing labels which are not brass and do not include a manufacturer's name or a letter "R" followed by numbers.

To report or obtain further information about these doors, contact Jim Velandar at UL's Northbrook Office, telephone number (312) 272-8800, extension 2750.

UL will take appropriate legal action against the offenders responsible for the fabrication and use of these counterfeit labels on unauthorized fire door constructions.

ODDS & ENDS

EDUCATION

FIELD INSPECTION TRAINING SEMINAR FROM THE CHAPTER

May 6 & 7 and May 8 & 9 the Colorado Chapter is sponsoring an instructor from ICBO to bring a two day seminar on field inspection procedures. This seminar will be offered twice consecutively on the above dates.

Cost of the seminar only is \$100 per participant. It does not include accommodations. The seminar will be held in the Denver Metro area. For more inclusive information contact Greg Keith or Steve Thomas.

VIDEO NEWS

The "Building Safety Week" video tape from ICBO is here. Rusty Price at the City of Littleton and Gerry Booth have 3/4" video tapes formatted to be used at your local television station. The tapes are very professional and tell of the importance of smoke detectors in saving lives.

The tape includes four messages: 2 thirty second spots and 2 ten second spots. One of each length tells of "Building Safety Week" the other is generic.

This particular tape is currently being aired on the Littleton Access Channel and CNN-Cable News Network. If you would like to air this tape in your location contact Gerry or Rusty.

JOBS

ARCH. & ENG. WEST, INC.

POSITION: Plans Analyst

EXPERIENCE: 2 years - U.B.C.
ICBO Certification
or within 6 months

SALARY: Commensurate with
experience

CONTACT: Cliff Paulesen
1675 Carr St.
Lakewood, CO 80215
232-8181



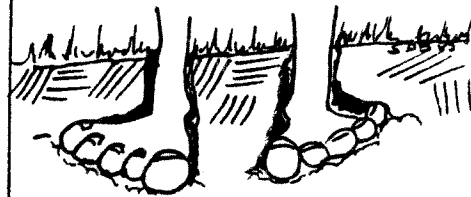
GET WELL SOON



Mr. John Stone, retired Building Official of the City of Denver and Structural Engineer, is currently recuperating from surgery done in April.

We all wish him a full and speedy recovery!!

definitions:



"Footings?!"

NEWS RELEASE FOR CHAPTER NEWSLETTER - ARPIL

In previous years, the Chapter has spent a great deal of money, time, and effort in providing various membership paraphernalia which may or may not have been appreciated or wanted by all of our members. For these reasons we will not be sending any of the materials unless you specifically request them on the attached form. Items should be available at the June 14th Chapter meeting if requested by May 1st. Please only check the items you feel are important to you.

Name Tag:

Pocket Card:

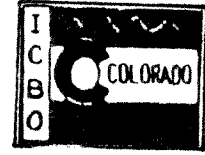
Membership Certificate:

1985 Date sticker for Membership Certificate:

Receipt for 1985 paid dues:

Thompson Thomas
City of Broomfield
#6 Garden Center
Broomfield CO. 80020

COLORADO CHAPTER NEWS



JULY/AUG. 85 VOL. 4 No. 6

63rd A.B.M.

←← COUNTDOWN →→



september
29th



BLOOMINGTON MINN.

(See ya there!!)

TENTATIVE PROGRAM

63rd Annual Education and Code Development Conference

September 29-October 4, 1985
 Radisson Hotel South
 Bloomington, Minnesota

CONFERENCE OFFICIALLY OPENS

Sunday, September 29

BREAKFAST OPEN—All week

- 8:00 a.m.-5:00 p.m.**
All week—Education and Publications Display **Boulevard Room**
- 8:00 a.m.-5:00 p.m.**
Registration **Boulevard Room**
- 8:00 a.m.**
Golf Tournament
- 1:30 p.m.-5:00 p.m.**
Nominating Committee Meeting
(Interviews by appointment) **Veranda 8**
- 3:00 p.m.-5:00 p.m.**
Organizational Meeting—Code Coordinating
Committee **Veranda 4 & 6**
- 6:00 p.m.-7:00 p.m.**
No-host Cocktail Reception **Garden Court**
- 7:00 p.m.-11:00 p.m.**
First-timers' Banquet and Dancing **Great Hall West & Center**

Monday, September 30

- 8:00 a.m.-10:00 a.m.**
Past Presidents Advisory Committee and Executive
Committee Meeting **Veranda 4 & 6**
- 8:00 a.m.-11:30 a.m.**
Education Sessions **Great Hall East & Corridor**
- 8:00 a.m.-5:00 p.m.**
Evaluation Committee Meeting **Atrium III**
- 10:00 a.m.-12:00 noon**
ICBO Major Jurisdictions
Advisory Committee Meeting **Veranda 4 & 6**
- 12:15 p.m.-1:30 p.m.**
General Assembly Luncheon **Great Hall West & Center**
Presiding: President John E. Maulding
Invocation
Posting of Colors
Pledge of Allegiance
Singing of "America the Beautiful"
Introduction of Board of Directors by President Maulding
Introduction of Official Host, Glenn A. Erickson, Supervisor
of Code Enforcement, St. Paul
Address of Welcome
Keynote Address: Garrison Keillor, Host of "Prairie Home
Companion" radio show
- 2:00 p.m.-4:00 p.m.**
ICBO State Advisory Committee Meeting **Veranda 4 & 6**

8:00 a.m.-5:00 p.m.	Education and Publications Display	Great Hall East
8:00 a.m.-5:00 p.m.	Registration	Atrium I
<p style="text-align: center;">(September 29 to October 1)</p>		
8:00 a.m.-10:00 a.m.	Education Sessions	Great Hall West & Center
12:15 p.m.-1:30 p.m.	General Assembly Luncheon	Great Hall East & Corridor
2:00 p.m.-4:00 p.m.	ICBO State Advisory Committee Meeting	Great Hall West & Center
6:00 p.m.	First-timers' Banquet and Dancing	Hyland Park
<p style="text-align: center;">(September 29 to October 1)</p>		
8:00 a.m.-10:00 a.m.	Education Sessions	Great Hall West & Center
9:00 a.m.-12:00 noon	Code Changes Session	Great Hall West & Center
9:00 a.m.-11:00 a.m.	Board of Directors Meeting	Veranda 4 & 6
12:00 noon-1:30 p.m.	Member Social Meeting	Great Hall East & Corridor
2:00 p.m.-3:00 p.m.	Code Changes Session	Great Hall West & Center
3:45 p.m.	Outside Reception—Event in the Garden at Hyland Park Barbecue and Entertainment	
<p style="text-align: center;">(October 1 to October 2)</p>		
8:00 a.m.-12:00 noon	Education and Code Enforcement Sessions Business Session	Great Hall West & Center
12:15 p.m.-1:30 p.m.	Member Luncheon (Invitation to Join the Association)	Great Hall East & Corridor
2:00 p.m.-4:00 p.m.	Board of Directors Meeting	Atrium II
2:00 p.m.-3:00 p.m.	Education and Code Enforcement Sessions	Great Hall West & Center
6:30 p.m.-7:30 p.m.	No-host Cocktail Reception	Garden Court
7:30 p.m.-11:00 p.m.	Annual Banquet Reporting of Minutes, Award Presenting Entertainment Introduction of 1985-1986 Officers Installation of Officers Presentation of Awards—State Past President Presentation of Awards Remarks	Great Hall West & Center
<p style="text-align: center;">POSTCONFERENCE ACTIVITIES</p>		
<p>FRIDAY, OCTOBER 4</p>		
8:00 a.m.-10:00 a.m.	Open House—Visit of Learning Resources Laboratories for Text Facilities in New Orleans, Louisiana, available to participants at a fee and luncheon. (Free parking)	
8:00 a.m.-10:00 a.m.	Code Enforcement Session	Atrium I
8:00 a.m.-10:00 a.m.	Education Sessions	Atrium IV

EDUCATION COMMITTEE

1986 CLASSES

The education committee of the Colorado Chapter has prepared a tentative curriculum for a week long educational program to be conducted in March of 1986. The proposed curriculum appears below and is offered for your scrutiny.

The intent of the program is to allow maximum flexibility in the selection of subjects. Individuals may select any of the classes offered at any given time block. This allows persons to select the subjects they feel would be the most benefit to themselves.

MARCH 1986 REGENCY HOTEL - DENVER
38TH + I-25

	3 MONDAY	4 TUESDAY	5 WEDNESDAY	6 THURSDAY	7 FRIDAY			
<div style="border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: left top;"> COLORADO CHAPTER ICBO EDUCATIONAL INSTITUTE </div>	SPRINKERS + HYDRAULIC CALCULATIONS	CONCRETE	→	STRUCTURAL MASONRY	→			
	WELCOME + COMMUNICATION ARTS AND PROBLEM SOLVING	STRUCTURAL MASONRY	→	CONCRETE	→			
	ALTERNATIVE MATERIALS AND METHODS OF CONSTRUCTION	BEGINNING OCCUPANCY (CHAP 5-17)	BEGINNING TYPES OF CONSTRUCTION (CHAP 17-22)	BEGINNING EXITTING (CHAP 35)	FIRE-RESISTIVE CONSTRUCTION (CHAP 45)			
	FIRE-RESISTIVE CONSTRUCTION (CHAP 15)	ADVANCED OCCUPANCY (CHAP 5-12)	ADVANCED TYPES OF CONSTRUCTION (CHAP 17-22)	ADVANCED EXITTING (CHAP 35)	ADVANCED EXITTING (CHAP 35)			
	BEGINNING PLUMBING	BEGINNING MECHANICAL	ADVANCED PLUMBING	ADVANCED MECHANICAL	ADVANCED MECHANICAL			
	ADVANCED SOLO	WOOD + ADVANCED STUDIES	FRAMING	ROOFING	FRAMING			
	WOOD + BEGINNING STUDIES	LEGISLATIVE FRAMEWORK	LEGAL ASPECTS	ADMIN PRINCIPLES AND TECHNIQUES (CHAP 1-2)	ADMIN PRINCIPLES AND TECHNIQUES (CHAP 1-2)	LEGAL ASPECTS	LEGISLATIVE FRAMEWORK	GRADING
	④	④	④	④	④	④		
	④	④	④	④	④	④		
	④	④	④	④	④	④		

Features:

- * Classes covering each of the 3 major areas of code enforcement.
- * Classes offered for differing levels of experience.
- * Several classes offered at two time periods to encourage maximum participation and curriculum flexibility.

Anticipated cost for the program is \$200 for the entire week or \$50 per day for individual class. Fees include: Lunch, break refreshments and instructional materials.

It also appears there will be an educational Banquet on Wednesday evening at a nominal cost to participants.

EDUCATION Cont.

The education committee seeks the help of the Chapter and anyone else who might be interested in this institute. We need to know approximately how many persons might attend such a program, both on an individual and departmental basis. Also, we need to know what individual subjects are preferred. Please take a moment to review the subjects offered. Determine what subject path you or persons in your department prefer. Examples of course paths appear below with a sample individual path on the left with an example of the multiple participant approach on the right.

Please line through the course path you prefer on the large printed curriculum at the beginning of this article. Place your name on the curriculum sheet, cut it out and return it to the education Committee at P.O. Box 626, Frisco, Co. 80443. For more than one person attending, please duplicate and send one copy per person. THERE IS NO OBLIGATION INVOLVED IN RETURNING THIS FORM. It serves as a survey for our committee to better comprehend the needs of Chapter members. Thank you for your cooperation. The time taken by you and the information provided by you will ensure an exceptional educational opportunity.

EXAMPLE FORMS

MARCH 1986

	3	4	5	6	7
	Monday	Tuesday	Wednesday	Thursday	Friday
1					
2					
3					
4					
5					
6					
7					

SAVED CHAPTER LEAD EDUCATIONAL MEMBERS

MARCH 1986

	3	4	5	6	7
	Monday	Tuesday	Wednesday	Thursday	Friday
1					
2					
3					
4					
5					
6					
7					

SAVED CHAPTER LEAD EDUCATIONAL MEMBERS

For additional information please contact Greg Keith, Summit County Building Department, 668-3170 (local) or 623-2535 (Metro).

PART IV

The New NFPA and Masonry Chimney Considerations

From the foregoing point of view, some of the most significant changes brought forth in the 1984 NFPA 211 code were related to the installation and construction standards of masonry chimneys. The primary emphasis is placed on air space clearance from combustibles and upon materials allowed for use. To review some of the chimney related highlights of the chimney related highlights of the new 211 may

be in order here.

THE DEALER AND THE MASON

In my travel around the country, one of the most often asked questions presented to me by dealers is, "How can we get the masons to understand the requirements of solid fuel equipments of solid fuel equipment and how can we get them to follow the requirements

of the new NFPA 211 code". This is indeed a perplexing issue, and one for which there is not an easy answer. Things that have worked for me for others who have communicated with me about this are as follows:

1. Find out if there is a local Masonry Institute in your town or state. Talk to the person in charge and find out what kinds of educational materials are available through that group to its members. Offer assistance in local meetings or educational seminars which are sometimes put on by these groups. Provide a copy of the new 211 code and copies of other pertinent articles found in the trade magazines.

2. Work with your local building inspectors to make sure that they are up to date on the new code requirements. Get them copies of the new 211 and articles such as this. Share your copy of Wood'n Energy with them.

3. Contact the Chief or Training Office of your local volunteer fire department. Suggest that a drill period be devoted to wood heating concerns and new code changes. Be willing to help conduct a session or two or suggest someone who can. In many communities, masons are apt to be members of a volunteer fire department. Find out if there are regional fire department gatherings where many departments get together for training. Encourage this kind of subject matter for these sessions.

4. Find out if area or statewide conferences for building officials are held in your region. Many times these meetings are held monthly, under the auspices of the national model code group to which people in your area belong. They are often looking for good, meaningful program material. Work with these groups to help get the word out.

5. Contact your state building code administrative office or the State Fire Marshall. Seek help at this level to get statewide campaigns moving. If your state does not recognize the NFPA codes, encourage them to move in that direction.

6. Contact trade schools in your area that may train masons. Find out if up-dated codes are referenced in their instruction programs.

7. Contact your local county extension office. Many state extension programs provide state staff assistance for county programming in this area. They may be able to set up consumer or trade oriented educational programs.

8. Talk to the customers who come through your doors. Help them to know what good masonry practice entails. Get them to demand good design and code compliance in the masonry work they have done. Show them the NFPA code book, articles such as this, and have displays that represent good safe practice.

9. Work with builders and architects in your area. Get the NFPA codes in their plans and bids.

10. Talk to realtors and bankers. Point out the benefits to them of having safer homes and better investments through better code compliance.

11. Talk to your local insurance agents, Show them the code books and the articles. Make sure that local insurance adjusters know the meaning of good masonry work.

12. Take a mason to lunch. Find out who is doing the best work in your area, help him understand the basics of the code and the requirements for wood heat. Promote him. Refer him to your customers. Work together to build a better business for both of you through better practice. The mason is a guy trying to earn a living just like you. If you can help him to know the things that can make his work more professional, he will generally appreciate it.

Desperately seeking Joe

The article below was sent to us via Tom Thompson in Broomfield. He asked that we reprint it in this newsletter to possibly forwarn Building Officials in other jurisdictions.

Man sought in fraud scheme

Police are seeking an apparently professional flim-flam man who has whirled through Broomfield, victimizing many residents in the guise of a builder.

The man, known as Joe Herbst, which police believe is an alias, lived in Broomfield for about a year, according to Detective Joan Bella. She added that his "business" began to increase in April and May of this year. Police believe he left Broomfield around May 24.

Herbst would take deposits from Broomfield residents for work and would sometimes complete it, sometimes begin it and sometimes not start at all. Besides victimizing homeowners, Herbst also wrote numerous bad checks to various Broomfield businesses.

Bella said police are treating Herbst's offenses as construction fraud. Unfortunately for some of the victims, liens have been placed



Joe Herbst

against their property by laborers who worked for Herbst, or suppliers of materials.

According to Bella, Herbst is wanted by the FBI and has operated under a variety of aliases throughout the country.

Two women, both reported as missing by other agencies, helped Herbst commit the fraud. One posed as his housekeeper, the other as his wife. Bella said the women covered for Herbst when the irate victims attempted to find him.

When asked how Herbst was able to perpetrate the fraud so convincingly, Bella said "He's just a helluva con man. That's his business."

The construction fraud cases total about \$11,500 in fees and materials. Another \$1155 in bad checks was also written by Herbst during his Broomfield stay.

Margaret Herbst



NEW MEMBERSHIP DRIVE

The Board of Directors recently approved the purchase of a beautiful 5 inch AC/DC television with AM/FM radio. The TV will be awarded to the winner of this years membership contest. To enter, copy the enclosed application, solicit a new member, and put your name at the bottom of the application in the "Sponsored By" blank. Specific details of the contest will follow. It is anticipated the contest winner will need at least five new members so get busy.

UPDATE ON 1990 RENDEZVOUS IN THE ROCKIES

A notice from Jim Bihl has been received by the Chapter indicating The Denver Marriott has been confirmed as the site for the 1990 Annual Business meeting.

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Colorado Chapter, Inc.

OF THE

**INTERNATIONAL CONFERENCE OF
BUILDING OFFICIALS**

P.O. Box 961

Arvada, Colorado 80001

APPLICATION FOR MEMEBERSHIP

NAME: _____ TITLE: _____

MAILING ADDRESS _____
(City) (State) (Zip)

REPRESENTING: _____ PHONE: _____
(Business)

DESCRIBE YOUR ACTIVITY: _____

MEMBERSHIP CLASSIFICATION

(Circle One)

ANNUAL DUES

\$15.00	ACTIVE CLASS A MEMBER	Governmental Department engaged in Building Code Administration.
\$15.00	CLASS B MEMBER	An individual engaged in Building Code Administration-Enforcement.
\$25.00	PROFESSIONAL MEMBER	An individual Architect, Engineer, etc., engaged in construction design, research.
\$25.00	PROFESSIONAL ORGANIZATION MEMBER	An organization engaged in architecture, engineering or research in the construction field.
\$25.00	ASSOCIATE MEMBER	A firm or corporation interested in the objectives of this organization.

SIGNATURE OF APPLICANT: _____ DATE: _____

SPONSERED BY: _____

***** SPECIAL NOTICE*****

As of July 1, 1985 Ken and Sue Burnett are no longer associated with the Building Department, Inc. Burnetts are still providing services to the Town of Bennett, Town of Nederland, and City of Black Hawk, however, they have formed a new consulting business for codes called Code Consulting and Inspections, Inc. (affectionately known as CC&I). They wish to thank all the members for their support in this new endeavor and hope they can live up to all the confidence everyone has expressed in them.

GUESS WHAT???

We're at it again! It seems Rusty's schedule is such that it is all but impossible for him to handle the Newsletter so he asked Ken and I to help out. So.....We're back folks!

Information you want in the Newsletter can be sent to 3884 S. Evanston St., Aurora, CO. 80014 C/O Ken or Sue Burnett. For anyone wishing to phone in - (303) 680-8583.

If there are specific articles you would like more information on let us know and we'll do what we can to get it to you. If you've heard a good PRINTABLE JOKE involving the profession send it in. We really want to get the Newsletter to be something you can look forward to each time.

We look forward to getting back in the swing of things, but we need your input folks, so let us know what you want and need.

Thompson, Thomas
Broomfield, City of
#6 Garden Center
Broomfield, Colo. 80020