

Building Education Conference Courses and Instructors

This conference is presented for Design Professionals, Building Code Officials, Fire Officials, Residential Builders, Commercial Contractors, and other professionals interested in learning about building codes and other related topics.

April 4, 2011

IFC 2009 HIGH - PILED STORAGE

SCOTT STOOKEY, ICC

This seminar provides a basic understanding of the hazards associated with high-piled combustible storage and introduces the participants to the provisions in Chapter 23 of the 2009 edition of the International Fire Code (IFC). The seminar is based, in part, on the High-Piled Combustible Storage Application Guide. In addition, because of the importance of automatic sprinkler systems in the protection of high-piled combustible storage, the seminar places special emphasis on the classification of commodities and understanding the design criteria in NFPA 13 for storage. **(full day)**

GOOD PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF WOOD TRUSSES

JESS LOHSE

This presentation explains the reasons for the new Building Component Safety Information BCSI Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses and the documents it replaces. Ideal for training truss industry personnel or those who require an in-depth knowledge of truss installation procedures, the presentation discusses each of the 10 sections in point-by-point detail. **(am) and (pm)**

CONCRETE PROPERTIES AND METHODS

DAN OTTMAN, BASIL JACOBSEN, AND BOB GLASGOW

Topics for this class include Concrete Technology ACI C94 --- Concrete Hot and Cold Weather ACI 305 and 306 --- Admixtures for concrete -new and old--- Pervious Concrete. This is an opportunity for designers, builders and code officials to hear the latest on what's new in concrete properties and methods. **(am) and (pm)**

"HOW TO" OF THE 2009 ENERGY CODE FOR BUILDERS AND DESIGNERS - COMMERCIAL

KEN BAKER, K ENERGY

This session will provide attendees with an informative overview of the commercial provisions of the 2009 International Energy Conservation Code. Topics to be covered include: Scope and application of the code, envelope, lighting and mechanical requirements, alternative methods of compliance and a brief overview of the compliance software COMCheck. All sessions are designed to deliver clear information to help the attendee understand code compliance rationale and compliance tools. Discussions on code provisions and application approaches are encouraged and facilitated by the instructor. **(am)**

"HOW TO" OF THE 2009 ENERGY CODE FOR BUILDERS AND DESIGNERS - RESIDENTIAL

KEN BAKER, K ENERGY

This session will provide attendees with an informative overview of the residential provisions of Chapter 4 of the 2006 IECC (International Energy Conservation Code). The first hour will set the stage for energy codes and energy efficiency in buildings in general through a presentation and discussion on the value of residential energy codes. This section will be supported by a review of the basic science of how a building works, including a good discussion of heat transfer and moisture control and the value of good HVAC design. The scope and application of the International Residential Code will be presented to help attendees identify the buildings and systems that are covered by the code. Envelope and HVAC system requirements will be presented to provide clarity to the application of Chapter 11 of the IRC and IECC Chapter 4. Many incandescent bulbs are being phased out over the next few years. The 2009 IRC and IECC requires that 50 % of permanent lamps (lighting or light bulbs) be high efficacy (think CFL). The new Energy Star™ program requires 80% CFL for new construction. A short module will be presented on selection of appropriate high efficacy lighting for the residence. **(pm)**

April 5, 2011

IBC NONSTRUCTURAL FIRE & LIFE SAFETY PRINCIPLES - DAY 1 OF 2 **DOUG THORNBURG, AIA C.B.O. DIRECTOR OF PRODUCT DEVELOPMENT**

The class will address the critical concepts of the 2009 International Building Code (IBC®) regarding fire and life safety issues. These concepts provide a basis for the correct use of the code regarding classification of occupancies, fire-resistance-rated construction, fire protection systems and means of egress. The content discusses issues that are the basis for many designs and plan review decisions. **(full day)**

**CONTINUING WITH OUR
COMMITMENT TO
EDUCATION....**

JOIN US FOR OUR

SIXTH ANNUAL

**BUILDING CODES
EDUCATION CONFERENCE**

MT Dept. Of Labor and Industry
Building Codes Bureau
PO Box 200517
Helena, MT 59620-0517

April 4 - April 7, 2011

Gran Tree Inn Bozeman Montana

**ON-LINE REGISTRATION AT
<http://www.mt.gov/dli/bsd/bc/ed.asp>**



April 5, 2011

ENGINEERING PRODUCTS & COVENTIONAL WOOD FRAMING

RUSSELL THORNBURG, THORNBURG CODE SERVICES

This overview surveys the requirements of the code's conventional wood framing provisions and the requirements associated with framing engineered designs for non-conventional construction. It will compare and contrast the prescriptive requirement with those of engineered designs. Essential for builders, designers, and code officials in evaluating engineered products and conventional wood framing. **(am)**

SOILS, FOOTING, AND FOUNDATIONS

RUSSELL THORNBURG, THORNBURG CODE SERVICES

This course will help establish a base for understanding and inspecting the construction aspects concerning soils, footings, and foundations. Through a review of industry basic standards and the IRC requirements for the construction with masonry and concrete, this course will provide a detailed examination of the use and application of standards governing these fundamental building blocks of residential construction. **(pm)**

FIRE SPRINKLER OVERVIEW FOR DESIGNERS AND INSPECTORS

MICHELLE ROSS, SPRINKLER TECHNOLOGY

Antifreeze and Other Fire Sprinkler Options in Cold Climates

The course addresses a hot issue in the fire sprinkler industry – antifreeze. Topics will include the recent antifreeze explosion incident and the controversy surrounding residential antifreeze systems. Practical options to working around antifreeze in cold climates will be explored and current solutions being utilized will be presented. **(am)**

DLI SAFETY CLASS

MICHAEL PRELLER AND MARISSA MORGAN, DEPT. OF LABOR & INDUSTRY

The topics in this seminar include FALL HAZARDS, ELECTRICAL HAZARDS, CAUGHT IN / IN BETWEEN HAZARDS AND STRUCK BY HAZARDS. The class examines what happened, why did it happen, how can we prevent it from happening again, as well as the causes of such accidents. Class discussion will also include the computer based program Safety Writer. Safety Writer allows you to create your own safety and health plan and implement a workplace safety philosophy. **(pm)**

April 6, 2011

IBC NONSTRUCTURAL FIRE AND LIFE SAFETY PRINCIPLES - DAY 2 OF 2

DOUG THORNBURG, AIA C.B.O. DIRECTOR OF PRODUCT DEVELOPMENT ICC

The class will address the critical concepts of the 2009 International Building Code (IBC®) regarding fire and life safety issues. These concepts provide a basis for the correct use of the code regarding classification of occupancies, fire-resistance-rated construction, fire protection systems and means of egress. The content discusses issues that are the basis for many designs and plan review decisions. **(full day)**

GREEN BUILDING -WATER CONSERVATION SYSTEMS, METHODS AND GUIDELINES - DAY 1

ARTHUR KRULL, KULL FOOD TECHNOLOGIES, AND DAN KRISTENSEN, MOEN INC.

This seminar will focus on the Importance of Water, Urban Opportunities for Water Conservation, Modern Household Water Distribution Systems, Plumbing Fixtures, and EPA Water Sense. This is a continuation of the Green Building Series where this class focuses on the specifics of green building design, construction, and inspection with relation to the specific topic of water conservation and incorporating green methods into the built environment. **(full day)**

LEGAL ASPECTS & ETHICS FOR BUILDING DEPARTMENTS

STEVE THOMAS, COLORADO CODE CONSULTING

The first part of this course provides individuals with guidelines for administering the legal aspects of code enforcement, prosecution and maintenance. Topics will include historical results of ignoring regulations, interpretation and application of pertinent laws and theories of legal liability. The second part will discuss ethics, with a discussion of “real world” issues that affect the perception and performance of the code enforcement staff. **(full day)**

April 6, 2011

MONTANA BUILDING INDUSTRY ASSOCIATION

Moving Ducts Inside, 30% energy savings 8:00 – 9:50 AM

Locating ducts inside of conditioned space can make the heating system 30% more efficient. Leaky ducts and radiant heat loss remain a source of major energy waste in Montana. This class looks at the technical side of placing ducts in various conditioned spaces, such as attics, crawl spaces and basements. Proper sealing techniques, insulation practices and the technical design aspects of building components will be discussed.

Liability Aspects For Builders 10:00 – 12:00

The building and legal worlds continue to become intertwined. This class focuses on several legal topics that are common place within the building community today. Contracts that prevent future disputes, construction defect complaints and Montana's lien laws will be discussed.

"30 Ways to Get Your Phone to Ring" 1:10- 2:50 PM

In a down building cycle generating business can be the most important and the most difficult project. This class discusses classic techniques as well as new and progressive ideas to generate business and customer referrals.

Improving Construction Productivity and Efficiency 3:00 – 5:00 PM

This class focuses on techniques and practices to optimize the construction process, increase productivity and improve profitability. The focus will be on factors, both human and systemic, that can be enhanced for greater efficiency.

April 7, 2011

FIRE RESISTIVE DESIGN PRINCIPLES

BOB EUGENE, UNDERWRITER'S LABORATORY INC.

This presentation provides a detailed discussion on fire resistive construction as covered in Volume 1 of the UL Fire Resistance Directory and various penetration protection measures as covered in Volume 2 of the UL Fire Resistance Directory, including some code requirements, testing process and conditions of acceptance. It furthermore provides an overview of the sources of design information on fire resistance, including the hard copy Fire Resistance Directory and the On-line Certifications Directory. **(full day)**

GREEN BUILDING - WATER CONSERVATION SYSTEMS, METHODS, AND GUIDELINES - DAY 2

CONRAD ANKER AND RON BARTCH

This seminar will feature various presenters discussing implications of water usage from the global to home & backyard, and finishing with a panel discussion to answer design and implementation questions. This is a continuation of the Green Building Series where this class focuses on the specifics of green building design, construction, and inspection with relation to the specific topic of water conservation and incorporating green methods into the built environment. **(full day)**

2009 PLUMBING UPDATE

DAVE MICONE, DLI PLUMBING / MECHANICAL INSPECTOR

This class will be reviewing the major changes of the 2009 Uniform Plumbing Code from the 2006 Uniform Plumbing Code. We will also get back to basic plumbing by an in-depth look at Chapter 6 Water Supply and Distribution, specifically water pipe sizing. An important part of the green plumbing world is the use of reclaimed water systems, so we will look at Chapter 16 Non Potable Water Reuse Systems. And be assured, there will be interesting videos for you to review just for fun! Essential plumbing update information for plumbers, designers and plumbing inspectors. **(am)**

IBC ASPECTS OF ASSEMBLY, BUSINESS AND MERCANTILE OCCUPANCIES

STEVE THOMAS, COLORADO CODE CONSULTING

The information in this class will identify IBC provisions applicable to the design and construction of tenant space improvements. The discussion addresses the three most common types of uses: business, mercantile and assembly. It emphasizes options available in the code for gaining compliance. Discussion includes occupancy separations and fire areas, type of construction features, fire-resistance-rated construction, interior finish materials, fire protection features, means of egress components and means of egress design. Important information for designers, inspectors, as well as home builders wishing to supplement their building experience with tenant improvement projects. **(am)**

USE AND RE-USE OF EXISTING BUILDINGS

STEVE THOMAS, COLORADO CODE CONSULTING

This seminar will address the relationship of the IBC to existing buildings, as well as the use of the IEBC. It will focus on the fundamental requirements of IBC Chapter 34 that are placed on an existing structure that undergoes repair work, alteration, renovation activity or construction of an addition, and the effect of a change in the building's occupancy classification. Discussions will include the "compliance alternatives" method of Section 3409. In addition other topics to be discussed are regulations of additions, alterations and repairs, changes of occupancy considerations, compliance alternatives and application of the IEBC. **(pm)**

APRIL 4 - APRIL 7, 2011 CONFERENCE CURRICULUM

MONDAY APRIL 4	IFC 2009 HIGH - PILED STORAGE (FIRE CLASS)	GOOD PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF WOOD TRUSSES -AM- 8:00 - 12:00	CONCRETE PROPERTIES AND METHODS -AM- 8:00 - 12:00	“HOW TO” OF THE 2009 ENERGY CODE FOR BUILDERS & DESIGNERS -COMMERCIAL- -AM- 8:00 - 12:00	LUNCH PROVIDED AT NOON
	-ALL DAY- 8:00 - 5:00	GOOD PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF WOOD TRUSSES -PM- 1:00 - 5:00	CONCRETE PROPERTIES AND METHODS -PM- 1:00 - 5:00	“HOW TO” OF THE 2009 ENERGY CODE FOR BUILDERS AND DESIGNERS -RESIDENTIAL- -PM- 1:00 - 5:00	
TUESDAY APRIL 5	IBC NONSTRUCTURAL FIRE AND LIFE SAFETY PRINCIPLES (DAY 1 OF 2)	ENGINEERING PRODUCTS & CONVENTIONAL WOOD FRAMING -AM- 8:00 - 12:00	FIRE SPRINKLER OVERVIEW FOR DESIGNERS AND INSPECTORS -AM- 8:00 - 12:00		LUNCH PROVIDED AT NOON
	-ALL DAY- 8:00 - 5:00	SOILS, FOOTINGS, AND FOUNDATIONS -PM- 1:00 - 5:00	DLI SAFETY CLASS -PM- 1:00 - 5:00		EXPO SOCIAL FROM 4:00 PM - 7:00 PM REFRESHMENTS & DOOR PRIZES
WEDNESDAY APRIL 6	IBC NONSTRUCTURAL FIRE AND LIFE SAFETY PRINCIPLES (DAY 2 OF 2)	GREEN BUILDING DAY 1 -ALL DAY- 8:00 - 5:00	LEGAL ASPECTS & ETHICS FOR BUILDING DEPARTMENTS -ALL DAY- 8:00 - 5:00	MONTANA BUILDING INDUSTRY ASSOCIATION -ALL DAY- 8:00 - 5:00	LUNCH PROVIDED AT NOON
	-ALL DAY- 8:00 - 5:00				MONTANA ICC CHAPTER MEETING 5 PM
THURSDAY APRIL 7	FIRE RESISTIVE DESIGN PRINCIPLES -ALL DAY- 8:00 - 5:00	GREEN BUILDING DAY 2 - ALL DAY - 8:00 - 5:00	2009 PLUMBING UPDATE -AM- 8:00 - 12:00	IBC ASPECTS OF ASSEMBLY, BUSINESS AND MERCANTILE OCCUPANCIES -AM- 8:00 - 12:00	LUNCH PROVIDED AT NOON
				USE AND RE-USE OF EXISTING BUILDINGS -PM- 1:00 - 5:00	

Registration and Class Selection

PLEASE COMPLETE A SEPARATE FORM FOR EACH PERSON

ON-LINE REGISTRATION: <http://www.mt.gov/dli/bsd/bc/ed.asp>

Name _____ Company Name _____

Address _____ City, State, Zip _____

Phone # _____ Builder Code Official Design Professional Fire Official

E-mail Address _____ Check Amount _____

Class Selection (You may select any class or classes being offered each day)

Morning classes are 8:00 - 12:00 Afternoon classes are 1:00 - 5:00

Monday

- IFC 2009 - HIGH-PILED STORAGE (FULL DAY)
- DISCUSSION ON WOOD TRUSSES (AM)
- DISCUSSION ON WOOD TRUSSES (PM)
- CONCRETE (AM)
- CONCRETE (PM)
- HOW TO OF THE 2009 ENERGY CODE - COMMERCIAL (AM)
- HOW TO OF THE 2009 ENERGY CODE - RESIDENTIAL (PM)

Tuesday

- IBC NONSTRUCTURAL FIRE AND LIFE SAFETY PRINCIPLES - DAY 1 (FULL DAY)
- ENGINEERING PRODUCTS AND CONVENTIONAL WOOD FRAMING (AM)
- SOILS, FOOTINGS AND FOUNDATIONS (PM)
- FIRE SPRINKLER OVERVIEW (AM)
- DLI SAFETY CLASS (PM)

Wednesday

- IBC NONSTRUCTURAL FIRE AND LIFE SAFETY PRINCIPLES - DAY 2 (FULL DAY)
- GREEN BUILDING DAY 1 (FULL DAY)
- LEGAL ASPECTS & ETHICS FOR BUILDING DEPARTMENTS (FULL DAY)
- MONTANA BUILDING INDUSTRY ASSOCIATION (FULL DAY)

PLEASE MARK THE DAY(S) YOU WILL BE ATTENDING LUNCH

- | | |
|----------------------------------|------------------------------------|
| <input type="checkbox"/> Monday | <input type="checkbox"/> Wednesday |
| <input type="checkbox"/> Tuesday | <input type="checkbox"/> Thursday |

Thursday

- FIRE RESISTIVE DESIGN PRINCIPLES (FULL DAY)
- GREEN BUILDING DAY 2 (FULL DAY)
- 2009 PLUMBING UPDATE (AM)
- IBC ASPECTS OF ASSEMBLY, BUSINESS AND MERCANTILE OCCUPANCIES (AM)
- USE AND RE-USE OF EXISTING BUILDINGS (PM)

PLEASE MARK IF YOU WILL BE ATTENDING THE FOLLOWING:

- | | |
|--------------------------------------|--|
| <input type="checkbox"/> EXPO SOCIAL | <input type="checkbox"/> ICC CHAPTER MEETING |
|--------------------------------------|--|

Registration fee: \$60.00 (required) NO REFUNDS

Registration fee should be paid to the Montana Chapter of the ICC. Full payment should accompany your registration form. **Registration deadline is Sunday, March 27, 2011.**

Please return your registration / class selection form and fee to:
Montana Chapter of the International Code Council
P.O. Box 244 Helena, MT 59624.

Rooms can be reserved at the Gran Tree Inn. The rate is **\$80.00/single** or **\$90.00/double**.

Phone number 406-587-5261. Reservations: Please refer to group number **805256** or **Montana Department of Labor & Industry** when making or inquiring about your reservations. If reservations are made by rooming list, this will act as guarantee.

EXHIBITS: TUESDAY IN THE ATRIUM - This is your opportunity to learn about the latest building and construction products and services offered by trade associations, manufacturers, and related businesses exhibiting at the conference.

PLEASE COMPLETE THE REGISTRATION FORM. You must check the classes you wish to attend in order to register. Please complete a **separate form for each person** attending and be sure to **print clearly** all the requested information. Please register as soon as possible as certain classes will be limited in size. Individual classes will be filled on a first come, first served basis.

CEUs: Continuing education units will be offered, with individual certificates. **CEU Credits are self-reporting.**