

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 2, 2012

2009 IBC FIRE AND SMOKE PROTECTION

DOUG THORNBURG AIA-C.B.O. DIRECTOR OF PRODUCT DEVELOPMENT

This seminar addresses the critical concepts of the 2009 IBC regarding Chapter 7, Fire and Smoke Protection Features. These concepts provide **designers, building and fire officials, plan reviewers and inspectors** a basis for the analysis and identification of which components require fire-resistance ratings; where the fire-resistance-rated construction is required in building construction; where smoke-resistant construction is mandated; and the use of fire door assemblies, fire window assemblies, penetration firestop systems, fire dampers and smoke dampers.. **(full day)**

IBC ACCESSIBILITY ADVANCED

STEVE THOMAS, COLORADO CODES CONSULTING

Devoted to advanced accessibility requirements using the International Building Code and ICC/ANSI A117.1. Topics will include scoping for accessible design, compliance paths for existing buildings, and Accessible, Type A and Type B residential requirements. New design methods not fully addressed by the IBC will also be discussed. The class will provide Federal accessibility background to help **designers, building officials and inspectors** negotiate the maze of regulations and their base intent in the IBC. **(full day)**

ENERGY CODE COMPLIANCE - COMMERCIAL AND RESIDENTIAL

KEN BAKER, K ENERGY

If you have ever been unsure of the intent of an energy code requirement or how to inspect for compliance with the code or if you would just like to learn what the IECC really requires and how those requirements can best be met, this Energy Code compliance class is ready made for you. In this one-day workshop **designers, building officials, plan reviewers, and inspectors** will review the residential and commercial IECC requirements, setting up a dialogue on how to comply with the code. Our goal will be to leave the class with a better understanding of how the code can be implemented. **(am and pm)**

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

JESS LOHSE, SBCA - MONTANA

Focusing on the Building Component Safety Information (BCSI) Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses. This presentation will provide **builders, building officials, field inspectors and design professionals** with pertinent information on a variety of metal plate connected wood truss topics, including handling techniques at site, temporary and permanent restraint/bracing of roof and floor trusses, information and guidance pertaining to diagonal bracing for web members with two rows of lateral restraint, as well as permanent lateral restraint and diagonal bracing guidance for trusses spaced wider than two feet on center. **(am and pm)**

April 3, 2012

2009 IFC FIRE PROTECTION SYSTEMS

SCOTT STOOKEY, ICC

This seminar is designed to guide participants through the 2009 International Fire Code® (IFC®) requirements related to fire protection systems (Chapter 9). **Designers, fire and building officials and inspectors** will receive information pertinent to these requirements including suppression systems, standpipe systems, automatic fire alarm systems, automatic detection systems and additional fire protection assemblies. **(full day)**

IBC ASSESSMENT OF ALTERNATIVE METHODS & MATERIALS

STEVE THOMAS, COLORADO CODES CONSULTING

Provides a solid background in the application of the alternate provisions contained in IBC Section 104.11. The first portion of the class will dissect the IBC to derive the base intent behind the prescriptive code requirements used to justify a 104.11 alternate assessment. The second portion of the class will look at sustainable alternative construction methods. Students will apply the requirements of 104.11 to each of these techniques to determine if the intent of the code is met. The instructor will also discuss “easy” qualification of alternates by using ICC Evaluation Services acceptance criteria and Evaluation Reports. Examples will be used to help illustrate real world application of the alternate assessment process for some of the most innovative and advanced construction found in a U.S. “jurisdiction”. **Designers and building officials** will find great value in reviewing this process. **(full day)**

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

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

**JOIN US FOR OUR
SEVENTH ANNUAL**

**BUILDING CODES
EDUCATION CONFERENCE**

April 2- April 5, 2012

Gran Tree Inn Bozeman Montana

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

Montana Department of
LABOR & INDUSTRY



April 3, 2012

MECHANICAL CODE REQUIREMENTS OF COMMERCIAL KITCHENS

LUKE STINCHFIELD & MIKE MORGAN, CaptiveAire

The design and installation of commercial kitchen ventilation systems is complex. The system design and integration into the overall building involves operation, performance, kitchen comfort, energy considerations, as well as initial and operating costs. Proper installation, maintenance, and inspection of these systems are critical to ensure compliance with the current codes, standards and a safe operation. **Designers, building and fire officials, plan reviewers, and inspectors** will focus on National Fire Protection Association (NFPA) Bulletin 96, International Mechanical Code (IMC), use of listed hoods and exhaust system components, Fire Suppression, and system inspections and maintenance. **(am)**

INTRODUCTION TO CROSS LAMINATED TIMBER CONSTRUCTION

DARRYL BYLE, P.E.

Cross Laminated Timber (CLT) is an engineered prefabricated solid wood panel (4-12" thick) intended for roof, floor, and wall construction. This European building technology is coming rapidly to North America. Construction of the first commercial CLT building in the United States placed Montana at the forefront of the introduction of CLT to North America. This course will introduce **design professionals, builders, code officials, and inspectors** to Cross Laminated Timber Panels; cover some of the key reasons behind CLT's long-term success in Europe along with why it is gaining such attention from others in the built environment including ANSI. Included will be discussion on the benefits and challenges of incorporating CLT in current projects. **(pm)**

CONCRETE - SPECIFICATIONS, TROUBLE SHOOTING, AND PRACTICES

BASIL JACOBSEN, BOB GLASGOW, & STEVE MORRICAL

This updated seminar will discuss the specifications for concrete detailing the various components and the proper mixes for a variety of uses in the built environment. A segment on trouble shooting concrete will provide insight as how to evaluate concrete problems, arrive at a course of action and implement solutions to those problems. A further discussion will take on hot and cold weather concrete practices which will provide the guidelines for each environmental condition. **Builders, designers and inspection personnel** will find this interactive session very helpful in dealing with a variety of concrete issues at the job site. **(am and pm)**

April 4, 2012

FIRE ALARMS: A WALK THROUGH TWO CODES

WHITNEY CRAHEN, FIRE ALARM CONSULTING & TRAINING SERVICE

This seminar will present the significant changes found in the latest edition of the NFPA 72 Fire Alarm and Signaling Code. The attendees will be guided through the re-arranged 2010 NFPA 72 edition. New definitions, Emergency Control functions and interfaces will be covered including the hot topic of Emergency Communication systems. The seminar will conclude with classic fire alarm review information as outlined in the 2009 International Fire Code. This course is a must for **fire and building official personnel responsible for review and inspection** of fire alarm systems. **(full day)**

IBC MULTI-FAMILY CONSTRUCTION

STEVE THOMAS, COLORADO CODE CONSULTING

An overview of the requirements for multi-family dwellings in the International Building Code. Type V-A construction may be the most difficult type of construction to build a structure by. This seminar discusses the **design, review and inspection** of Group R-2 occupancies including, building planning, fire-resistive rated construction, fire protection requirements and means of egress requirements. **(full day)**

NON-STRUCTURAL FUNDAMENTALS OF THE 2012 INTERNATIONAL BUILDING CODE

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

In this seminar Doug Thornburg of ICC will address the critical concepts of the upcoming 2012 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 vital for **designers, inspectors and plan reviewers** to understand in the new 2012 IBC which the state will be adopting this year. **(full day)**

2011 NATIONAL ELECTRICAL CODE UPDATE

CLIFF SHULTZ, SUPERVISOR - DEPARTMENT OF LABOR & INDUSTRY

This eight hour approved continuing education class will cover all significant code changes found in Chapter 1 through portions of Chapter 4 of the 2011 National Electrical Code (NEC) including Article 90.5 through article 426.28. The objective of the course is to explain for **electricians and electrical inspectors** the purpose for the code change and offer discussion and insight on how to achieve code compliance relative to the new changes. This course will utilize "Analysis of Changes" 2011 NEC (National Electrical Code) edition published by the International Association of Electrical Inspectors (IAEI). State Electrical Licensing Board Continuing Education Units will be issued: Eight (8) Hours Code Related. **(full day)**

April 5, 2012

FIRE SPRINKLER PLAN REVIEW

DAVID HUGHES, MICHELLE ROSS & JESSICA MILLER

This full day seminar will detail all aspects involved in reviewing a fire sprinkler plan for compliance with NFPA 13. Topics will include review of hazard occupancies, sprinkler layout, risers, hydraulic calculations, fire department connection, hangers, and seismic calculations. Learn what information is required to be submitted for approval, review sample plans using checklists, and find out what items typically cause delays. This interactive seminar will benefit **both fire and building officials reviewing and designers and fire protection contractors** submitting plans in understanding requirements of NFPA, and gain a more complete knowledge of fire sprinkler plans. **(full day)**

IRC PRESCRIPTIVE BRACING REQUIREMENTS

STEVE THOMAS, COLORADO CODE CONSULTING

This presentation geared towards **designers, building officials and inspectors** focuses solely on the prescriptive wall bracing methods in the IRC. Topics will include the code implementation of wall bracing with wood panels, gypsum panels, fiberboard panels, alternate braced panels, continuous wall sheathing and portal frames. This interactive presentation includes typical project example problems where code compliant solutions are provided and discussed. **(full day)**

2009 UNIFORM PLUMBING CODE UPDATE

DAVE MICONE, STATE PLUMBING / MECHANICAL INSPECTOR

This class will be reviewing for **designers, building officials, inspectors, and plumbers** the 2009 Uniform Plumbing Code emphasizing common mistakes found in the field. We will also get back to basic plumbing by reviewing the Americans with Disabilities Act Chapter 6. In general we will touch on the 2009 International Fuel Gas Code requirements, which replace Chapter 12 of the 2009 UPC here in Montana. We will look at some new products and procedures that are in the market place that you won't find in the current UPC. **(am)**

PROPER CONNECTION REQUIREMENTS FOR CODE COMPLIANCE IN LIGHT FRAME CONSTRUCTION

RYAN EDWARDS & ERIC PUGMIRE

This seminar is intended to provide information to **designers, building inspectors, and builders** interested in learning about proper connections for code requirements in light frame construction. Special attention will be given to changes in the building codes and new products. Topics to be covered include decks, concrete anchoring, and fasteners for structural solutions at trusses, beams, columns and other reaction points. Participants will receive an overview of product solutions available for general construction, lateral solutions; including shearwalls and ordinary moment frames, as well as, other critical connection points. **(full day)**

APRIL 2 - APRIL 5, 2012 CONFERENCE CURRICULUM

MONDAY APRIL 2	2009 IBC FIRE AND SMOKE PROTECTION	IBC ACCESSIBILITY ADVANCED	ENERGY CODE COMPLIANCE - COMMERCIAL -AM- 8:00 - 12:00	GOOD PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF WOOD TRUSSES -AM- 8:00 - 12:00	LUNCH PROVIDED AT NOON
	-ALL DAY- 8:00 - 5:00	-ALL DAY- 8:00 - 5:00	ENERGY CODE COMPLIANCE - RESIDENTIAL -PM- 1:00 - 5:00	OVERVIEW PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF WOOD TRUSSES -PM- 1:00 - 5:00	
TUESDAY APRIL 3	2009 IFC FIRE PROTECTION SYSTEMS	IBC ASSESSMENT OF ALTERNATIVE METHODS AND MATERIALS	MECHANICAL CODE REQUIREMENTS OF COMMERCIAL KITCHENS -AM- 8:00 - 12:00	CONCRETE - SPECIFICATIONS, TROUBLE SHOOTING, AND PRACTICES -AM- 8:00 - 12:00	LUNCH PROVIDED AT NOON
			INTRODUCTION TO CROSS LAMINATED TIMBER CONSTRUCTION -PM- 1:00 - 5:00	CONCRETE - SPECIFICATIONS, TROUBLE SHOOTING, AND PRACTICES -PM- 1:00 - 5:00	EXPO SOCIAL FROM 4:00 PM - 7:00 PM REFRESHMENTS & DOOR PRIZES
WEDNESDAY APRIL 4	FIRE ALARMS - A WALK THROUGH TWO CODES	IBC MULTIFAMILY CONSTRUCTION	NON-STRUCTURAL FUNDAMENTALS OF THE 2012 IBC	2011 NEC UPDATE	LUNCH PROVIDED AT NOON
					MONTANA ICC CHAPTER MEETING 5 PM
THURSDAY APRIL 5	FIRE SPRINKLER PLAN REVIEW	IRC PRESCRIPTIVE BRACING REQUIREMENTS	2009 UNIFORM PLUMBING CODE UPDATE AM- 8:00 - 12:00	PROPER CONNECTION REQUIREMENTS FOR CODE COMPLIANCE IN LIGHT FRAME CONSTRUCTION	LUNCH PROVIDED AT NOON
			-ALL DAY- 8:00 - 5:00		

Registration and Class Selection

PLEASE COMPLETE A SEPARATE FORM FOR EACH PERSON

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

Name _____	Company Name _____
Address _____	City, State, Zip _____
Phone # _____	Your Occupation _____
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

- 2009 FIRE & SMOKE PROTECTION (FULL DAY)
- IBC ACCESSIBILITY ADVANCED (FULL DAY)
- ENERGY CODE COMPLIANCE-COMMERCIAL (AM)
- ENERGY CODE COMPLIANCE-RESIDENTIAL (PM)
- HANDLING, INSTALLING, BRACING OF WOOD TRUSSES (AM)
- HANDLING, INSTALLING, BRACING OF WOOD TRUSSES (PM)

Tuesday

- 2009 IFC FIRE PROTECTION SYSTEMS (FULL DAY)
- IBC ASSESSMENT OF ALTERNATIVE METHODS AND MATERIALS (AM)
- MECHANICAL CODE REQUIREMENTS OF COMMERCIAL KITCHENS (AM)
- INTRODUCTION TO CROSS LAMINATED TIMBER CONSTRUCTION (PM)
- CONCRETE (AM)
- CONCRETE (PM)

Wednesday

- FIRE ALARMS: A WALK THROUGH TWO CODES (FULL DAY)
- IBC MULTI-FAMILY CONSTRUCTION (FULL DAY)
- NON-STRUCTURAL FUNDAMENTALS OF THE 2012 IBC (FULL DAY)
- 2011 NEC UPDATE (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 SPRINKLER PLAN REVIEW (FULL DAY)
- IRC PRESCRIPTIVE BRACING REQUIREMENTS (FULL DAY)
- 2009 PLUMBING UPDATE (AM)
- PROPER CONNECTION REQUIREMENTS FOR CODE COMPLIANCE IN LIGHT FRAME CONSTRUCTION (FULL DAY)

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 Building Codes Bureau. Full payment should accompany your registration form. **Registration deadline is Sunday, March 25, 2012.**

Please return your registration / class selection form and fee to:
DLI - Building Codes Bureau - Attn: Pam Plovanic
P.O. Box 200517 Helena, MT 59620.

Rooms can be reserved at the Gran Tree Inn. The rate is **\$82.00/ single.**

Phone number 800-624-5865. Reservations: Please refer to group number **805600** or **Montana Department of Labor & Industry** when making or inquiring about your reservations. If reservations are made by rooming list, this will act as a 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.**