

**THIRD ANNUAL
BUILDING
EDUCATION
CONFERENCE**

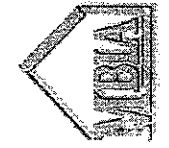
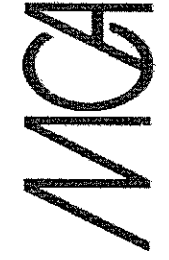
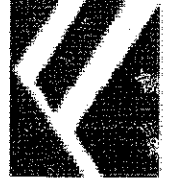
**GRAN TREE INN
BOZEMAN, MONTANA
APRIL 7-11, 2008**

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

Presented By:

**The Montana Department of Labor & Industry - Bureau
of Building and Measurement Standards
The Montana Chapter of the International Code Council
The Montana Building Industry Association
The Montana Contractors Association**

**MT Dept. Of Labor and Industry
Bureau of Building & Measurement Standards
PO Box 200517
Helena, MT 59620-0517**



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 7, 2008

****PM ONLY****

FIRE SPRINKLER DESIGN OVERVIEW for DESIGNERS, CONTRACTORS, FIRE OFFICIALS AND CODE ENFORCEMENT PERSONNEL

David R. Hughes, Jr., P. E., Jason Anderson, P.E., Mark Gauveia, P.E., Bozeman, MT.

- 1) Fire Sprinkler Overview and Recent Code Changes
- 2) Fire Sprinklers for Cold Areas - Attics/Loading Docks/Canopies/Exterior Locations
- 3) Requirements for Seismic Bracing and Protection of Sprinkler Piping

This half day seminar is an overview of IBC, UFC, and State of Montana amendments and requirements for design and testing of fire sprinkler systems in various applications. Discussion will include a variety of system types (wet, dry, anti-freeze, and special applications) and will feature the NFPA referenced standards for commercial (NFPA 13), residential (NFPA 13R), and single family (NFPA 13D) sprinkler systems. The class will provide information to designers, contractors, fire officials, and code officials on design, application and testing of fire sprinkler systems. **PM Only**

Legal Aspects of Building Contracting

Carl Sweitzer - Executive Director of the Montana Subcontractors Association

This half day, two part, seminar will answer the basic questions about "Notices of Right to Claim a Lien and Construction Liens, and Montana Construction Statutes. Areas of discussion will include time lines and dead lines for notices and liens, forms and information needed to complete the forms, when a notice is needed, where to location the information to fill out a notice or lien, where and to whom notices and liens are sent. Lien releases - don't release more money than the money you collect, and the importance of notices of right to claim a lien and why they will help you get paid. In addition the seminar goes through the various sections of Montana Construction Payment Act. Detailing the time lines for owners to pay general contractors, general contractors to pay subcontractors, and subs to pay second tier subs. The act also has limitations on retainage, prohibition of certain clauses and interest penalties for late payment. **PM Only**

THE CODE DEVELOPMENT PROCESS – NATIONAL, STATE, AND LOCAL METHODS AND PROCESSES ON HOW THE CODE GETS ADOPTED AND MODIFIED

Kim Palmieri, Building Official, Billings, Montana, Tim Lloyd, Program Manager, Certified Cities, Department of Labor and Industry, State of Montana.

This half day seminar will focus on how the building code gets adopted and modified at all levels. The class will provide information on how design professionals, builders, and building and fire officials can become active in code development, modification and adoption at both the State and Local level. Additional discussion will include how to seek relieve from code requirements through the use of code technical advisories, interpretations, Boards of Appeal, and other methods found in Statute, Administrative Rules or Code Requirements. **PM Only**

SNOW LOADS – AN UPDATE ON THE CURRENT STANDARD ADOPTED BY THE STATE OF MONTANA

- Jerry E. Stephens, PhD., P.E., Civil Engineering Department, Montana State University, Bozeman, Montana

This half day seminar will review the currently adopted standard for snow loads in Montana, "Snow Loads for Structural Design in Montana". The class is a "must attend" for design professionals, contractors, code officials, and other parties who deal with designing for snow loads on the updated standard currently adopted by the State of Montana. The new "Snow Load Finder" will be reviewed and the theory and practice used by the snow load finder to determine the ground snow load for a given site. An update will be given on efforts to upgrade the finder to capture some anomalous values possible in some isolated areas. **PM Only**

APRIL 10, 2008

ICC OVERVIEW OF THE 2006 IBC STRUCTURAL PROVISIONS

Jerry Neville, International Code Council.

This full day seminar presents an overview for engineers, architects, contractors and code officials of the structural provisions of the 2006 IBC (Chapter 16) and ASCE 7-05 as well as discussions of the structural material chapters: concrete (Chapter 19), masonry (Chapter 21), wood (Chapter 23), and steel (Chapter 22), and the referenced structural material standards (ACI 318-05, MSJC Code, AISC 360-05, AISC 341-05 & NDS-05). Additionally, discussion of Special Inspection and Quality Assurance provisions of the code (Chapter 17) and structural provisions of foundations (Chapter 18) will be provided.

Full Day

APRIL 2008 CONFERENCE CURRICULUM					
MONDAY APRIL 7 PM ONLY		Fire Sprinkler Design Overview	Legal Aspects of Building Contracting	Overview of the Code Development Process	Snow Loads
APRIL 8 TUES.	Concrete Technologies, Weather Applications, and Additives AM	ICC 2006 IBC Fire Risks of Interior Finishes - ALL DAY -	Green Buildings - ALL DAY -	Fire Stopping and Concrete Anchoring - Hilti Corp. AM	Connection and Anchoring - Establishing, Maintaining, and Inspecting Load Paths Using Proper Connectors and Anchors Simpson Strong Ties - ALL DAY -
	Concrete Technologies, Weather Applications, and Additives PM			Fire Stopping and Concrete Anchoring - Hilti Corp. PM	
APRIL 9 WED.	Energy Code Update - 2006 IECC - Commercial Provisions AM	Commercial Kitchens - Getting Code Compliant Designs and Installations the First Time PM	Room Reserved for MSU- NAHB Certified Graduate Builder - Track 1 - Separate Registration Required Contact Jenny @ 994-4292 - ALL DAY -	ICC 2006 IBC - Performing Building Inspections - Commercial - ALL DAY -	ICC 2006 IBC - Accessibility & Usability with 2003 ANSI A117.1 - ALL DAY -
	Energy Code Update- 2006 IECC- Residential Provisions PM				
APRIL 10 THURS.	Fire-Retardant- Treated-Wood- Applications, Code Requirements and Solutions To Noncombustible Material Mandates AM	UL Fire Resistive Concepts - "Getting Out" - ALL DAY -	Room Reserved for MSU- NAHB Certified Graduate Builder - Track 2 - Separate Registration Required Contact Jenny @ 994-4292 - ALL DAY -	ICC 2006 IRC - Performing Building Inspections - Residential -ALL DAY-	ICC Overview of the 2006 Structural Provisions - ALL DAY -
	Construction Safety- "Investing In Your People and Bottom Line" PM				

Registration and Class Selection

PLEASE COMPLETE A SEPARATE FORM FOR EACH PERSON

Name _____ Company Name _____
Address _____ City, State, Zip _____
Work Number _____ Cell Number _____
E-mail Address _____ Check Amount _____

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

Monday

- Fire Sprinkler Class (pm)
- Legal Aspects of Building Contracting (pm)
- Overview of the Code Development Process (pm)
- Snow Loads (pm)

Tuesday

- Concrete Technology (am)
- Fire Stopping - Hilti (am)
- ICC 2006 IBC Fire Risks of Interior Finishes (full day)
- Green Buildings (full day)
- Simpson Strong Tie (full day)
- Concrete Technology (pm)
- Fire Stopping - Hilti (pm)

Wednesday

- Energy - Commercial (am)
- Energy - Residential (pm)
- ICC 2006 IBC - Performing Building Inspections - Commercial (full day)
- ICC 2006 IBC - Accessibility & Usability with 2003 ANSI A117.1 (full day)
- Commercial Kitchens-Getting Code Compliant Designs and Installations The First Time (pm)

Thursday

- Hoover Wood Preservative (FRTW) (am)
- UL Fire Resistive Concepts (full day)
- ICC 2006 IBC - Performing Building Inspections - Residential (full day)
- ICC Structural Provisions of IBC 2006 (full day)
- Construction Safety (pm)

Registration fee: \$35.00 (required)

Registration fee should be paid to the Montana Chapter of the ICC. Full payment should accompany your registration form. **Registration deadline is Monday, March 24, 2008.**

Please return your registration / class selection form and fee to:
Pam Plovanic at the 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 \$73.00 or Government rate at time of conference.

Reservations: Please refer to group number **803982** 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.

All Seminar Participants will receive certificates for the classes they attend.

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

CEU Credits are self-reporting

APRIL 8, 2008

CONCRETE TECHNOLOGIES, WEATHER, APPLICATIONS, AND ADDITIVES

Bob Glasgow – Concrete Division Montana Contractors Association, JTL Group

A four hour seminar aimed at providing designers, builders, and code enforcement officials information on concrete technologies, cold and hot weather applications, design mixes, additives for various conditions and other principles and practices in concrete materials and technologies. **AM & Repeat in PM**

ICC 2006 IBC – FIRE RISKS of INTERIOR FINISHES

John Gibson, Jr. M.C.P., C.B.O., C.P.C.A., C.F.I. Technical Advisor & Instructor for ICC

A one day seminar providing insight into the hazards associated with interior finishes and decorations slanted towards fire officials, designers, and code enforcement personnel. Reviews applicable code sections of the 2006 IBC and fire code and associated testing standards with focus on the design, construction and maintenance of interior finishes, decorative materials and trim. **Full Day**

GREEN BUILDINGS - Jeff Junkert, MBIA Association President;

Penny Lane Home Builders, Bozeman Green Home Builder, and Yellowstone Business Partnership

A one day Green Building workshop will focus on the nuts and bolts of how building professionals can incorporate green-building techniques into every phase of the building process. The course will cover: site selection and planning; resource, energy and water efficiency; indoor environmental quality; operation, maintenance and owner education; green products; certification programs and marketing of the green home. **Full Day**

FIRESTOPPING and CONCRETE ANCHORING

PRODUCTS AND TECHNIQUES – Hilti Corporation

Marco Fisher, Fire Protection Specialist Julia Meschkat, Field Engineer

This half day seminar will provide designers, fire officials, and code enforcement personnel an opportunity to explore best practices and IBC 2006 code provisions for the installation and inspection of fire stopping and concrete anchors. Participants will hear how recent changes to UL's fire test standard will affect fire stopping techniques in the built environment. An overview of the NTSB report on failed anchors at the Big Dig in Boston will lead to discussion on how to avoid similar failures with anchoring systems.

AM & Repeat in PM

**CONNECTIONS AND ANCHORING – ESTABLISHING, MAINTAINING, AND
INSPECTING LOAD PATHS USING PROPER CONNECTORS AND ANCHORS**

Simpson Strong-Tie - Olga Psomostithis, Ryan Edwards, Eric Pugmire, Mike Finzer, Louay Shamroukh

This full-day workshop is designed for industry professionals including engineers, architects, code officials, general contractors and home builders interested in learning about proper connections and anchoring systems in the built environment. Detailed information and special attention will be given to the changing building codes and latest construction practices regarding connections and anchoring. A review of innovative new products for Cold-Formed Steel Construction and new software offerings will also be included.

Full Day

APRIL 9, 2008

ENERGY CODE UPDATE – 2006 IECC – COMMERCIAL PROVISIONS – Eric Makela

This half day seminar covers the differences between the 2003 and 2006 International Energy Conservation Code for commercial buildings. The course material is designed to provide contractors, designers, code officials, and builders with critical updates on commercial energy code provisions and changes prior to the upcoming state adoption of the 2006 IECC. The 2006 edition has been re-formatted and includes many new commercial provisions. **AM Only**

ENERGY CODE UPDATE – 2006 IECC – RESIDENTIAL PROVISIONS – Eric Makela

This half day seminar covers the differences between the 2003 and 2006 International Energy Conservation Code for residential buildings. The course material is designed to provide contractors, designers, code officials, and builders with critical updates on residential energy code provisions and changes prior to the upcoming state adoption of the 2006 IECC. The 2006 edition has been re-formatted and includes many new residential provisions. **PM Only**

APRIL 9, 2008 **COMMERCIAL KITCHENS – GETTING CODE COMPLIANT DESIGNS AND INSTALLATIONS THE FIRST TIME – Bob Duffy, Plumbing Inspector, Chuck Fulks, Plumbing Inspector, Dave Micone, Plumbing Inspector, State of Montana**

This half day seminar will provide current code information to designers, contractors, plumbers and mechanical equipment contractors on those plumbing aspects found in the 2006 Uniform Plumbing Code for the layout, design, and installation of a variety of commercial kitchen applications. Topics will include specific plumbing code requirements for floor drains, triple bowl sinks, other fixtures and equipment, Fats-Oil-Grease Interceptor requirements, and gas piping. Mechanical topics will focus on Type I and II hood code requirements, exhaust systems, terminations, and make-up air requirements. There will be additional discussion on fire suppression and rooftop equipment. **PM Only**

ICC 2006 IBC PERFORMING COMMERCIAL BUILDING INSPECTIONS -

John Gibson, Jr. M.C.P., C.B.O., C.P.C.A., C.F.I. Technical Advisor & Instructor for ICC

This full day seminar explains tasks a commercial building inspector performs to verify that a commercial building complies with the 2006 IBC. Detailed in a how-to approach to inspection that includes topics pertaining to techniques and procedures. Provides code and fire officials technical knowledge necessary for comprehensive inspection practice and gives designers and contractors insight to what enforcement officials are looking for when determining compliance in a commercial building. **Full Day**

ICC 2006 IBC ACCESSIBILITY and USABILITY with 2003 ANSI A117.1

Doug Thornburg, AIA, CBO, Director of Product Development, International Code Council.

This full day seminar provides requirements for construction of accessible structures in compliance with the 2006 IBC and the updated referenced standard ICC A117.1-2003. Introduces designers, code officials and plan reviewers to the concepts and requirements for design, construction, and inspection to allow the physically challenged, the visually impaired, and the hearing impaired to use buildings of all types. Discusses the primary objective of the 2006 IBC, which is to meet or exceed, to the maximum extent possible, the requirements of ADA Accessibility Guidelines and the Fair Housing Accessibility Guidelines. **Full Day**

APRIL 10, 2008

FIRE-RETARDANT-TREATED WOOD (FRTW) –APPLICATIONS, CODE REQUIREMENTS AND SOLUTIONS TO NONCOMBUSTIBLE MATERIAL MANDATES

Dr. David Bueche, Applications Engineer, Representative for Hoover Treated Wood Products.

This half day seminar is a discussion of the use of wood in noncombustible types of construction including fire-retardant-treated wood technical characteristics with emphasis placed on the requirements of the International Building Code. This session provides designers, contractors, and code and fire officials insight and options on where and when the code recognizes FRTW for those applications where a noncombustible material is mandated. Additional discussion will reveal where applications allow FRTW in lieu of one-hour rated construction. **AM Only**

CONSTRUCTION SAFETY – “INVESTING IN YOUR PEOPLE and BOTTOM LINE”

This half day seminar will provide builders, design professionals, and building officials an insight to the costs and effects when construction safety is not a part of your operations. The basics of job site safety will be discussed to include excavation and trenching, fall protection, ladders and scaffolding, framing safety, trips and falls, and job site electrical safety. **PM Only**

UL FIRE RESISTIVE CONCEPTS – “GETTING OUT”

Bob Eugene, Senior Staff Engineer, Underwriters Laboratory (UL), Lynnwood, Washington.

This new, full day seminar will detail the significant requirements found in IBC Chapter 10 to include egress and fire safety provisions of the exit, access, and exit discharge. Designers, Code Officials and Fire Officials will be provided a detailed look at codes and standards governing means of egress marking, illumination, emergency lighting, power equipment, and low level path marking systems. Fire door options and hardware will be identified and discussed. **Full Day**

ICC 2006 IRC PERFORMING RESIDENTIAL BUILDING INSPECTIONS –

John Gibson, Jr. M.C.P., C.B.O., C.P.C.A., C.F.I. Technical Advisor & Instructor for ICC

This full day seminar explains tasks a residential building inspector performs to verify that a residential building complies with the 2006 IRC. Detailed in a how-to approach to inspection that includes topics pertaining to techniques and procedures. Provides code officials technical knowledge necessary for comprehensive inspection practice and gives home builders insight to what enforcement officials are looking for when determining compliance in a residential building. **Full Day**