

CITY OF RAPID CITY

Growth Management Department

300 Sixth Street
Rapid City, South Dakota 57701-5035

MEMORANDUM

TO:

Legal and Finance Committee

FROM:

Marcia Elkins, Director

Growth Management Department

DATE:

January 2, 2008

RE:

ICC International Codes Training

Denver, Colorado

Staff requests City Council approval of the travel request for Charles Janson, Code Consultant and Bernie Hall, Chief Electric Inspector to attend the ICC International Codes Training seminar. The purpose of the seminar is to provide continuing education to the Development Service Center staff and to help comply with the educational requirement of the Insurance Services Organization (I.S.O.). Participants will earn 3.5 Continuing Education Units for the five-day seminar.

The cost of travel is estimated at \$2,135.00 and includes the following expenses:

\$310.00 transportation costs

\$325.00 Meals (3/2/08-3/7/08)

\$800.00 Lodging (double occupancy)

\$650.00 Registration

\$50.00 Parking fee

\$2.135.00 Total Travel Estimate

Staff Recommendation: Staff recommends approval of the travel request for Charles Janson, Code Consultant and Bernie Hall, Chief Electric Inspector to attend the ICC International Codes Training seminar in Denver Colorado March 3-7, 2008 (travel dates March 2-7, 2008) in an estimated amount of \$2,135.00.



CITY OF RAPID CITY TRAVEL REQUEST

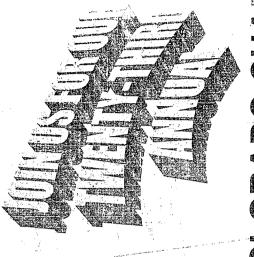
Person requesting travel <u>Charles Janson</u>	Dep	partment Growth Management
I hereby request permission to travel for the following justify cost involved.)		,
Colorado Chapter Educational Institu	ite - International Cod	es Training
List all other City employees, if any, making the trip Bernie Hall Place of meeting or destination: Denver, Co	• •	
Date of meeting <u>March 3-7, 2008</u>		
Date trip to begin3-2-08	Date trip will end	3-7-08
Method of transportation requested <u>city vehi</u>	icle	
Estimated transportation cost 406.52x2x.37 Meals Lodging5days \$135+tax	\$	325.00
Other costs – description <u>Parking 5 days</u>		800.00 50.00
Registration for 2		650.00
Total estimated cost of trip		2.135.00
	•	49111111
Signed CA	DateE	Date 12/11/07
(person requesting travel)		nent Head)
When the cost of the trip will exceed \$500, per emp	oloyee, this section must be sig	ned.
In accordance with the provisions of Rapid City or requested in the foregoing application. Maximum co	_	•
	Approved:	Date
		Date Mayor
When the cost of the trip will exceed \$1,500, per ev		ed.
	Approved by Common Council	on (Date)
White copy – Mayor	Yellow copy – Finance	Gold copy – Department copy

Prsrt Std U.S. Postage Paid Golden, CO Permit No 66

COLORADO CHAPTER EDUCATION COMMITTEE P.O. BOX 961 ARVADA, COLORADO 80001



International Building Cେ୍ଞ International Residential Cୁର୍ଞ International Fire Code Whternational Plumbing Code International Mechanical Code International Fuel Gas Code



286#S 9#T 008 ODAA GEXM***OTUA*******

RAPID CITY SD 57701-5034

300 GTH ST

MARCH THIRD THROUGH MARCH SEVENTH TWO THOUSAND AND EIGHT MARRIOTT DENVER TECHNOLOGICAL CENTER www.coloradochaptericc.org

MARCH 2008 CURRICULUM

COURSE PATH	MAR 3 MONDAY	MAR 4 TUESDAY	MAR 5 WEDNESDAY	MAR 6 THURSDAY	MAR 7 FRIDAY
SPECIAL INTEREST	181 Attitude Management: A Supervisor's Key to Success	281 Egress Behavior and Analytical Techniques	381 Residential Energy Code	481 Administration and Management of the Building Function	581 Accessibility
SPECIAL INTEREST	182 Soils Identification and Foundation Design	282 Meth Labs	382 Property Maintenance Code & Dangerous Buildings	482 Alternate Materials	582 Performance Based Energy Code Compliance
SIMPLIFIED ENGINEERING PRINCIPLES	183 IBC Wood Framing	283 Design of Wood Frame Buildings for High Wind, Snow & Seismic Loadings	383 Wind Load Provisions of the 2006 IBC	483 Wood-Frame Roof, Shear Diaphragms & Various Wood Products	583 Basic Structural Concepts
BASIC PLANS EXAMINATION	184 2006 IBC Means of Egress	284 2006 IRC Update	384 Building Areas, Fire Areas and Mixed Occupancies	484 Residential Plan Review	584 2006 IRC Update
ADVANCED PLANS EXAMINATION	185 IBC Advanced Occupancy Classification	285 IBC Advanced Schematic Design	385 IBC Advanced Types of Construction	485 IBC Advanced Means of Egress Components	585 IBC Advanced Means of Egress Design
FIELD INSPECTION	186 2006 IBC Multi- Family Construction	286 Exterior Wall Systems	386 and 486 Moisture Control, Indoor Air Pollution and Mold in Buildings		586 Roofing Inspection
FIELD INSPECTION	187 Fundamentals of the 2006 IRC	287 2006 IBC Overview: Nonstructural Provisions	387 2006 IBC Update	487 IBC Fire-Resistive Construction	587 Prestressed Concrete Special Inspection
PERMIT TECHNICIANS	188 Creating a Hazard Mitigation and Emergency Management Plan	288 and 388 The Complete Permit Technician		488 and 588 Over the Counter Plan Review	
INTERNATIONAL PLUMBING CODE	189 Backflow Prevention and Water Distribution	289 Commercial Plumbing Provisions of the 2006 IPC	389 Plumbing for Combination Inspectors	489 Radiant Basics	589 A Field Guide to Modulating/Con- densing Hydronic Heat Sources
INTERNATIONAL MECHANICAL CODE	190 HVAC Fabrication & Installation Standards and Procedures	290 and 390 Mechanical Inspection Under the 2006 IMC, IFGC and IRC		490 Grease Hoods	590 Up with Fire and Smoke (Fire & Smoke Dampers)
NATIONAL ELECTRICAL CODE	191 a Grounding V	and 291 391 erses Bonding Changes to the 2005 NEC		491 and 591 Electrical Fires: Causes and Prevention	
INTERNATIONAL FIRE CODE	192 Legal Aspects of Fire Code Enforcement	292 Big Box Retail and Fire Sprinklers: A Practical Approach	392 Basic Fire Sprinkler Review	492 Basic Fire Alarm Review	592 Use of Codes and Standards in Court
INTERNATIONAL FIRE CODE	193 a 2006 International	and 293 Fire Code Overview	393 IFC Chapter 27 Hazardous Materials	493 IFC Chapter 34 Flammable and Combustible Liquids	593 Alternate Fire Suppression (Not 13, 13R or 13D)

OVERVIEW

The Colorado Chapter of the International Code Council, along with the Fire Marshal's Association of Colorado, the Celerado Association of Plumbing and Mechanical Officials and the Colorado Association of Permit Technicians, invite you to attend the Colorado Chapter's Twenty-Third Annual Educational Institute.

2008 HIGHLIGHTS:

- Once again 65 full-day classes in 13 different course paths, with the "best of the best" instructors from all over the United States. A number of all new classes and many revised and improved versions of our most popular offerings, now updated to the 2006 I-Codes.
- New! A new class from Lynn Pollard on "Attitude Management: A Supervisor's Key to Success."
- Back! A comprehensive course path on HVAC requirements for residential and commercial applications.
- Back! IPC class covering both hydronic heating and electric radiant heating systems, including installation and controls.
- More! Two offerings of the Update to the 2006 IRC as well as a new class on IRC Fundamentals!
- New! New classes on residential plan review and residential exterior wall systems.
- New! A new class on the Performance Alternative for compliance with the International Energy Conservation Code (IECC) residential provisions, including review of REM/Rate software!
- Revised and Improved! The Simplified Engineering Principles course path is updated with a new class on wood framing using the Wood Frame Construction Manual (WFCM).
- Back! "Moisture Control & Indoor Air Pollution," with the latest information on mold thrown in, from the only person who can make these subjects thoroughly entertaining, Joe Lstiburek.
- Back! A graduate level weeklong marathon in Advanced Plan Review to explore the intricacies of the 2006 IBC from Greg Keith! This is a week that you won't forget!
- New! A second Special Interest course path including new classes on Alternate Materials, Dangerous Buildings and Meth Labs.
- Back, Updated, Revised & Improved by CAPT. The seventh year of our full five-day course path especially designed to fit the training, networking and certification needs of Permit Technicians.
- Electrical! Back by popular demand; Electrical Fires: Causes and Prevention!

- More Electrical! Two days on grounding & bonding, arguably one of the most important and least understood subjects in the electrical code, from Mike Hols, the best guy to tell it!
- Hoti Check out our International Fire Code (IFC) course paths! Ten full-day classes of top notch instruction on the most current fire prevention topics, including new courses on Big Box Retail and Alternate Fire Suppression and Basic Review of Fire Sprinkler and Fire Alarm Systems.

EXHIBITS: Monday, Tuesday & Wednesday in the Atrium

 This is your opportunity to learn about the latest building and construction products and services offered by manufacturers, trade associations and related companies exhibiting at the Institute.

REGISTRATION:

- One or more persons may attend any combination of classes for not more than 5 days total for only \$260. Individual classes are offered at \$65 per day.
- In return for the fees noted above, registrants receive instruction, handout materials plus lunch and break refreshments.
- Register early! The most popular classes fill quickly and often need to be closed.
- REGISTRATION DEADLINE IS <u>FEBRUARY 4. 2008</u>. Registrations or fees received after February 4th and faxed registrations cannot be accepted. Credit card payments cannot be accepted.
- CEUs. Continuing education units will be offered, with individual certificates to be mailed within 90 days.
- PUBLICATIONS. The ICC will once again have an onsite bookstore
 offering code books and other reference materials for viewing and
 purchase.

LOCATION:

- Marriott Hotel, Denver Technological Center (DTC), 4900 S. Syracuse Dr., Denver, CO 80237, south of Denver at I-25 & Belleview (Exit 199).
- Roorn rates are \$135/night single or double until February 15th, 2008 or until our room block is filled.
- Reservations can be made by calling 1-800-228-9290 or local number 303-779-1100. Hotel reservations can also be made on-line by using the link on the Colorado Chapter ICC web site at www.coloradochaptericc.org. Be sure to reference the Colorado Chapter Educational Institute when making your reservations, and obtain those reservations as soon as possible.

COURSES AND INSTRUCTORS

All courses will be based upon the 2006 editions of the IBC, IECC, IFGC, IFC, IMC, IPC and the IRC, and the 2005 edition of the NEC. Code books will also be available for purchase. PLEASE BRING THE APPLICABLE CODE BOOK(S) AND/OR REFERENCE MATERIALS. The instructors listed below are scheduled to teach, however substitutions may be made. All classes begin at 8:00 a.m. and end at 4:30 p.m. A 1-hour lunch break is provided at noon. Course descriptions are listed by Course Path, Monday - Friday.

181: ATTITUDE MANAGEMENT: A SUPERVISOR'S KEY TO SUCCESS

Lynn Pollard, Pollard Consulting. Ever wonder how you can make people focus, stay positive, and be productive, all at the same time. This session is about learning some basic skills to make this happen Supervisors and managers must manage both their own and others attitudes to enhance productivity and create an environment where people do their best. Learn basic practical steps to do this in our session.

182: SOILS IDENTIFICATION AND FOUNDATION DESIGN

Bill Koechlein, P.E., Koechlein Consulting Engineers. This class provides a detailed discussion and examples of soils and foundation investigations and how they're implemented into current foundation designs.

183: IBC WOOD FRAMING

David P. Tyree, P.E., Dennis Pitts, American Forest and Paper Assn. This class is a complete course composed of numerous subjects in one comprehensive program for building officials, plans examiners and contractors on wood frame construction basics. Detailed discussions are included on conventional construction, wood characteristics, grade marking, termites and decay protection, conventional wall, floor and roof / ceiling framing, lateral load bracing, shear walls, fireblocking / draftstopping and much more!

184: 2006 IBC MEANS OF EGRESS

Gary Pringey, CCC, LLC. This class is a basic overview of the means of egress requirements included in Chapter 10 of the 2006 IBC. The presentation will include detailed discussions on the design of the means of egress in buildings. Subjects included in the class are the three parts of the means of egress plus occupant loads, egress width, number of exits, travel distance, common path of egress travel and exit enclosures. Practical examples will be used to illustrate the code requirements.

185: IBC ADVANCED OCCUPANCY CLASSIFICATION

186: 2006 IBC MULTI-FAMILY CONSTRUCTION

Dan Weed, CCC, LLC. This class provides an overview of the requirements for multi-family dwellings in the International Building Code. Type V-A structures may be the most difficult type of construction to build. This seminar discusses the design, construction and inspection of Group R-2 occupancies including, building planning, the resistive rated construction, fire protection requirements and means of egress requirements.

Greg Keith, P.h.D. This graduate level workshop will discuss the occupancies contained in Chapter 3 of the 2006 IBC. Methods relating to the proper classification of occupancies will be discussed. Differences

between UBC and IBC occupancy categories will be emphasized.

187: FUNDAMENTALS OF THE 2006 IRC

Tom Meyers, CCC, LLC. This one-day seminar provides a broad overview of the provisions of Chapters 1 through 10 of the 2006 IRC, which cover those portions of the code that deal with "building" issues. This seminar will not address the mechanical, plumbing and electrical portions of the IRC. Topics will include administrative provisions, building planning; foundation systems; wood framed construction of floors; walls and roofs; wall and roof coverings; and chimneys and fireplaces. The class is designed to provide an introduction to the provisions of the code.

188: CREATING A HAZARD MITIGATION & EMERGENCY MANAGEMENT PLAN

Terrell Stripling, ICC. This class will assist the building department administration in laying the groundwork for developing a hazard mitigation and emergency management plan. The class will identify potential hazards to the built environment, mitigation strategies to address those hazards and operational procedures to follow in the event of a disaster and help coordinate the efforts of the building department with the jurisdiction's emergency operation center. This class is suitable and recommended for all building and construction professionals interested in building code administration and enforcement.

189: BACKFLOW PREVENTION AND WATER DISTRIBUTION

Robert Nagle, PE, City & County of Denver and John LaTorra, Redwood City, CA. This class serves as a primer on backflow prevention using the 2006 IPC and the Colorado Cross-Connection Control Manual along with water distribution per the 2006 IPC. The class will cover the recent changes to the IPC dealing with the above two items.

190: HVAC FABRICATION & INSTALLATION STANDARDS AND PROCEDURES

Jerry Hall, SMACNA Colorado. This class is designed to assist in identifying proper HVAC fabrication, installation and operation procedures for residential, commercial and industrial applications. In addition, a portion of the program will be devoted to a review of established methods of inspecting HVAC components. The program will utilize hands-on training, textbook learning and open dialogue to examine HVAC problems that are encountered in the field on a daily basis.

191 AND 291: GROUNDING VERSES BONDING OF ELECTRICAL SYSTEMS Mike Holt, Mike Holt Enterprises, Inc. This two-day course will cover basic as well as advanced topics necessary to understand the practical grounding and bonding rules in the NEC for systems not over 600V. As the most important and least understood activity in the electrical, data process and communications industry, this class will explain the concepts necessary to design, install, inspect, measure and trouble shoot electrical systems including sensitive electronic and communications equipment.

192: LEGAL ASPECTS OF FIRE CODE ENFORCEMENT

Dino A. Ross, Esq., Ireland, Stapleton, Prior and Pascoe, P.C., Kristen Cook and Kathleen Spicer, Colorado Springs City Attorney's Office. This class addresses the aspects of fire code enforcement from both a municipal law and fire district perspective. The Colorado Revised Statutes and the 2006 International Fire Code will serve as references in discussing the various aspects of fire code enforcement during inspections of new construction and existing occupancies. This class will also address issues related to the plan review process and the application of the IFC in granting modifications and in the approval of alternative materials and methods.

193 AND 293: 2006 INTERNATIONAL FIRE CODE OVERVIEW **FMAC IFC Instructor Team.** This class will be a two day in-depth overview of the 2006 International Fire Code. The instructors are fire marshals and fire protection engineers representing FMAC. Each has extensive practical experience in applying the IFC in real world application.

281: EGRESS BEHAVIOR AND ANALYTICAL TECHNIQUES

Steve Gwynne, Hughes Associates, Inc. Human behavior is a vital component of the evacuation process. Even if not explicitly stated the codes employed during the design process make broad assumptions regarding evacuee behavior that directly influence the results produced. This course will provide an overview of human behavior in fire. It will discuss the factors that affect this behavior, the responses that can be expected and the impact that it has on the assessment of egress performance.

282: METH LABS

Lynn Riemer, N. Metro Drug Taskforce and Coleen Brisnettan, Co. Health Dept. This session will address how to recognize a user and the drug's effect on the user. It is important to be able to recognize and know how to deal with a meth user, because dealing with someone high on meth can be just as dangerous as walking in to a lab. This session will also address manufacturing Methamphetamine. It will give the participants knowledge of what to look for, the hazards associated with labs and what to do if you find yourself in one and how to properly decontaminate a location.

283: DESIGN OF WOOD FRAME BUILDINGS FOR HIGH WIND, SNOW & SEISMIC LOADINGS Robert Taylor and David P. Tyree, P.E., American Forest and Paper Assn. The course will benefit designers, code enforcement officials; and building contractors of one- and two-family dwellings, providing specific design details for wood frame buildings for High Wind, Snow, and Seismic Loadings. This workshop combines lectures, slide presentations and interactive participation of the participants with the instructor in the use of ANSI/AF&PA Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings. Both the 2001 WFCM + Commentary, and WFCM Workbook, are required for this course.

284 OR 584: 2006 IRC UPDATE

Tom Meyers and Dan Weed, CCC, LLC. This fast-paced one-day seminar explores the major provisions of the 2006 International Residential Code. The presentation includes detailed discussions of the provisions addressing the following issues: building planning; foundation, floor, wall and roof construction; exterior wall finishes; and roofing systems. (Note: This class is offered on Tuesday or Friday)

285: IBC ADVANCED SCHEMATIC DESIGN

Greg Keith, P.h.D. This advanced workshop, geared towards plans examiners and Architects, will discuss the provisions contained in Chapters 3-5 of the 2006 IBC. Technical requirements relating to allowable area and height determination and mixed occupancies will be stressed.

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286: EXTERIOR WALL SYSTEMS

287: 2006 IBC OVERVIEW: NONSTRUCTURAL PROVISIONS

Gary Pringey, CCC, LLC. This fast-paced one-day seminar explores the major provisions of the 2006 International Building Code. The presentation will include discussions of the provisions addressing the following issues: occupancy classification, types of construction, means of egrose, fire sprinders and fire-resistive-rated construction, administrative provisions and accessibility. This class is designed to provide an introduction to the new provisions of the code.

Steve Thomas, CCC, LLC. Water intrusion through exterior walls may be the largest problem in residential construction today. This class discusses the International Residential Code's requirements for exterior walls. General installation requirements of products will be discussed, including weather barriers, flashing, wood/hardboard siding, masonry veneer, stucco and exterior insulated finish systems.

288 AND 388: THE COMPLETE PERMIT TECHNICIAN

Steve Burger, Bureau Veritas. This 2-day course is intended to provide essential information in the areas of code history and administration, legal aspects, customer service, basic construction, inspection process, zoning terms, permit fee calculations, basic occupancy, construction types, basic means of egress and dealing with difficult customers. Please bring a calculator, 2006 IBC, 2006 International Zoning Code, Legal Aspects of Code Administration and Basic Code Enforcement books.

289: COMMERCIAL PLUMBING PROVISIONS OF THE 2006 IPC

Daryl Kuiper, Pikes Peak Regional and John LaTorra, Redwood City, CA. This class will cover the commercial plumbing provisions of the 2006 IPC including the following; Indirect waste piping, interceptors, examples of different types of DWV systems and sizing, water pipe sizing for commercial applications, determining appropriate fixture levels, and roof drainage.

290 AND 390: MECHANICAL INSPECTION UNDER THE 2006 IMC, IFGC & IRC

Sam Dardano, City of Boulder. This two day class will be a broad overview of doing inspections under the IMC, IFGC and IRC. The overview will include many residential and commercial provisions commonly encountered by inspectors and contractors, such as: equipment, warm air heating, vented decorative appliances, ducts, combustion air, venting and other miscellaneous subjects. The class will also include significant changes to the 2006 IMC, IFGC and IRC mechanical provisions.

292: BIG BOX RETAIL AND FIRE SPRINKLERS: A PRACTICAL APPROACH

Steven Scandaliato, Scandaliato Design Group. Big box retail and storage occupancies have turned into the residential frenzy of the 1980's. For the past fifteen years there has been more full scale fire testing for fire protection solutions for these occupancies than every before. This seminar will include candid discussions about the issues surrounding these buildings as well as how we are integrating the results of testing and new technologies that are now available. Topics include IBC and NFPA requirements, fire test results, establishing design criteria that make sense and performance based design techniques.

381: RESIDENTIAL ENERGY CODE

Eric Makela, Britt/Makela Group Inc. This class will provide an overview of the energy efficiency provisions of the 2006 IRC as well as the compliance methods included in the residential provisions of the 2006 International Energy Conservation Code. The different options for compliance using the prescriptive, UA or the simulated performance methods will be discussed. Plan review, including the use of REScheck, and inspection issues will be addressed.

382: PROPERTY MAINTENANCE CODE & DANGEROUS BUILDINGS

Steve Thomas, CCC, LLC. This one-day seminar provides an overview of housing and property maintenance inspections as outlined in the International Property Maintenance Code. Defining and identifying specific ways to handle dangerous buildings will be discussed. The seminar will assist code personnel who are seeking a better understanding of how to approach a property maintenance inspection, how to conduct a thorough inspection and how to follow through with appropriate enforcement actions.

383: WIND LOAD PROVISIONS OF THE 2006 IBC

John R. Henry, P.E., ICC Staff. This training program examines the wind load provisions of the IBC. The design requirements for wind are illustrated by design examples, addressing both the simplified wind design procedure of the 2006 IBC and the analytical procedure in ASCE 7.

384: BUILDING AREAS, FIRE AREAS AND MIXED OCCUPANCIES

Dan Weed, CCC, LLC. This seminar provides a comprehensive discussion of the major compartmentation concepts of the IBC, focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. Fire-resistance-rated construction is also addressed. This class will include topics on allowable areas, area increases, unlimited area buildings, fire area concept and construction, incidental/accessory use areas and separated/non-separated uses.

385: IBC ADVANCED TYPES OF CONSTRUCTION

Greg Keith, **P.h.D.** This graduate level workshop will explain the types of construction requirements contained in Chapters 4, 6 and 7 of the 2006 IBC. Fire-resistive and materials requirements will be emphasized. Techniques on how to select the proper type of construction and identify the type of construction on existing buildings will be stressed.

386 AND 486: MOISTURE CONTROL, INDOOR AIR POLLUTION AND MOLD IN BUILDINGS Joseph Lstiburek, Building Science Corporation. An entertaining, stimulating and thought-provoking two days that will change the way you think about how we build today's buildings. Topics include changes in building technology, why we don't build the way we used to, vapor diffusion and air flow retarders, vented & unvented roof and crawl spaces, keeping the rain & ground water out, biologicals, indoor air quality, HVAC, issues on mold and alternative materials & techniques

387: 2006 IBC UPDATE

Gary Pringey, CCC, LLC. This seminar will review the changes from the 2003 edition to the 2006 edition of the International Building Code. The background behind many of the changes will be discussed to provide the participant with an understanding of the intent of the changes and how to apply it to their everyday work. Subjects covered in the class will include the code change process, mixed occupancies, atriums, accessible means of egress and many more.

389: PLUMBING FOR COMBINATION INSPECTORS

Patrick Clark, Jefferson County. This class is for the IPC Combination and the IRC Combination Inspectors. The class will include an update of significant changes in the 2006 codes:

391: CHANGES TO THE 2005 NATIONAL ELECTRICAL CODE **John Travers. Hialeah, FL**. This is a brand new course covering the various changes to the National Electrical Code. Be sure to bring your copies of the 2002 and the 2005 NEC. The 2005 NEC will also be available for purchase from the ICC Bookstore on site.

392: BASIC FIRE SPRINKLER REVIEW

393: IFC CHAPTER 27 HAZARDOUS

435 ADMINISTRATION AND MANAGEMENT OF THE BUILDING FUNCTION

482: ALTERNATE MATERIALS

483: WOOD-FRAME ROOF, SHEAR DIAPHRAGMS & VARIOUS WOOD PRODUCTS

484: RESIDENTIAL PLAN REVIEW

485: IBC ADVANCED MEANS OF EGRESS COMPONENTS

487: 2006 IBC FIRE-RESISTIVE CONSTRUCTION

488 AND 588: OVER THE COUNTER PLAN REVIEW

489: RADIANT BASICS

490: GREASE HOODS

491 AND 591: ELECTRICAL FIRES: CAUSES AND PREVENTION

492: BASIC FIRE ALARM REVIEW

493:IFC CHAPTER 34 FLAMMABLE AND COMBUSTIBLE LIQUIDS

581: ACCESSIBILITY

582: PERFORMANCE BASED ENERGY CODE COMPLIANCE

583: BASIC STRUCTURAL CONCEPTS

585: IBC ADVANCED MEANS OF EGRESS DESIGN

Jared Moravec, Bainbridge Island Fire Dept., WA. This one day two part course is a very basic overview of the NFPA 13 standard. The class is targeted for NEW personnel entering the fire prevention bureau with very limited to no knowledge of fire sprinkler plan review. The second part of the course will be presented by TYCO addressing design issues in high sloped ceiling in residential occupancies.

Reinhard Hanselka, IES. IFC Chapter 27 Hazardous Materials, This class will show the participants how to use Chapter 27, including, its use as a road map to other chapters, MAQ's, control area concepts, storage, dispensing and use of hazardous materials.

Jero Kershan. A class for building and me officials, community development directors, day and county managers and others involved in decision-making, staffing and budgeting for the administration of building and fire codes. Discussion will include progressive administrative procedures and management approaches, department organization, determining and justifying staffing and fee levels, program budgets, performance measures, enterprise funding and more.

Tom Meyers, CCC, LLC. This class reviews the use of ICC evaluation reports when using the International Building Code. Specific materials discussed will be I-Joists, wood trusses, exterior insulated finish systems (EIFS), synthetic stucco systems, structural insulated panel systems (SIPS) and insulated concrete form (ICF) systems.

Tom Buist, WILLDAN. This class will provide an understanding of the wood-framed structure as well as an understanding of material; product knowledge; marking and identification; sizing; spans and tables. This seminar will cover common engineering terminology and provisions regulating lateral force-resisting systems (shear and diaphragm) in accordance with the 2006 International Building Code (IBC). There will be a productive question-and-answer period

Dan Weed, CCC, LLC. This class is designed to provide a broad overview of the process for residential plan review. This 1-day course will provide the basic steps to complete a comprehensive review of a residence. The class will discuss the tools and process for conducting a residential plan review. It will also increase your awareness of the necessary items required to insure code compliance of the homes built in your jurisdiction.

Greg Keith, P.h.D. This graduate level workshop will focus on the means of egress component requirements contained in Chapter 10 of the 2006 IBC. Prescriptive means of egress component provisions will be reviewed. The differences in corridor construction requirements contained in the UBC and IBC will be pursued.

Tom Thompson, Wally Prebis, P.E. An in-depth discussion of the general fire-resistive requirements of Chapters 7 and 8, 2006 IBC, ASTM E-119 and other ASTM Standards, including a detailed discussion of specific fire-resistive construction requirements.

Steve Thomas, CCC, LLC. This fast paced, 2-day class is designed primarily for the building department employee who has an interest in learning more about the plan review aspects of working at the front counter. The course is intended to provide essential information that will assist in doing plan review as it relates to such items as patio covers, room additions, decks, garages, hot tubs and other items.

Mark Eatherton, Radiant Panel Association. You will receive the basic knowledge required to successfully design and install a radiant heating system. You will learn about simple and advanced control equipment and strategies.

Guy McMann, Jefferson County. This class is an in depth review of type I hood systems and grease ducts with an emphasis on correct hood installation, understanding what type of hood is required over what type of appliances, inspection of grease ducts, and make-up air and exhaust systems. The class will also include a brief explanation of required fire suppression systems.

John Travers, Hialeah, FL. This very popular two day course will include even more hands-on information that is guaranteed to generate a great deal of discussion. A must attend for Code Officials and Electricians alike.

David Lowrey, Boulder Fire Dept. This one day course is a very basic overview of Section 907 of the 2006 IFC and NFPA 72standard. The class is targeted for NEW personnel entering the fire prevention bureau with very limited to no knowledge of fire alarm plan review.

Reinhard Hanselka, IES. IFC Chapter 34 Flammable and Combustible Liquids, This class will show the participants how to use Chapter 34, including MAQ's, control area concepts, liquid storage rooms, warehouses, sprinkler density for storage arrangements, dispensing and use of flammable combustible liquids.

Tom Meyers, CCC, LLC. This class provides an overview of the scoping provisions for accessibility in the International Building Code and the technical provisions of the ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities. The class will also discuss differences between the provisions enforced by building department and the American Disabilities Act Accessibility Guidelines.

David R. Roberts, P.E., A.E.C. Architectural Energy Corporation's REM/Rate™ home energy rating software and REM/Design™ home energy analysis software are becoming increasingly popular for use in demonstrating compliance with model energy codes, including the 2006 IECC, especially the Simulated Performance Alternative (Section 404). This class will provide an overview of Section 404 of the IECC and demonstrate the applicability of the REM software in demonstrating compliance with the 2006 IECC.

Tom Buist, WILLDAN. This class provides information, examples and a general discussion of various engineering principles and fundamentals required to better understand how structures are designed and function.

Greg Keith, P.h.D. This graduate level workshop will cover the means of egress design requirements contained in Chapter 10 of the 2006 IBC. The differences in the approach to the "three part" means of egress between the UBC and IBC will be discussed in detail.

586: ROOFING INSPECTION

587: PRESTRESSED CONCRETE SPECIAL INSPECTION

USS: A PIELD GUIDE TO MEMBULATING/CONDENSING HYDRONIC HEAT SOURCES

590: UP WITH FIRE AND SMOKE (FIRE & SMOKE DAMPERS)

592: USE OF CODES AND STANDARDS IN COURT

593: ALTERNATE FIRE SUPPRESSION (NOT 13, 13R OR 13D)

Rich Boon. An overview of the provisions of Chapter 15, 2006 IBC. Instruction will focus on proper application techniques and review of all types of roof coverings as well as evaluation reports applicable to roof covering products

Walter J. "Wally" Prebis, P.E., Doug Schlegel, P.E. An in-depth discussion of prestressed concrete theory, pretension and post-tension methods, inspections, and practical applications. The latest version of the Prestressed Concrete Institute Design Handbook will be provided.

Bark Eatherton, Advenced Hydronics. This course will deal with the plethors of new ulua high eficiency, modulating/condensing heat sources that seem to be popping up on the job on a regular basis. This course will cover accepted venting/combustion air issues, primary/secondary piping issues, condensate neutralization issues and more.

Sam Dardano, City of Boulder. Everything you ever wanted to know about fire/smoke dampers using sections 716 of the IBC and 607 of the IMC. The class will include instruction on damper types and required locations and a review of through-penetration firestop system.

Wayne J. McKenna and Terry-Dawn Hewitt, McKenna Hewitt. Everyone involved in fire litigation should be aware of the trend towards standardization and the effect industry codes and standards can have in court. This presentation summarizes the uses of industry codes and standards in court, including criminal and regulatory prosecutions, and civil cases. It provides an overview of some important standards and their value in a litigation context.

David Tomecek, PE, Hughes Associates, Inc. This course will examine the various types of suppression and extinguishing systems that may be used as alternatives to traditional sprinkler systems. While some sprinkler-based technologies will be presented - such as pre-action sprinklers and special purpose sprinklers/nozzles - the course focuses on non-sprinkler water-based systems, gaseous systems and chemical agents. A variety of agents and delivery methods will be discussed, along with the benefits and drawbacks of each.

PLEASE READ - IMPORTANT STUFF

PLEASE COMPLETE the Registration Form. You must check the classes you wish to attend in order to register. Please fill out a SEPARATE FORM FOR EACH PERSON attending and be sure to PRINT CLEARLY all requested information.

PLEASE NOTE: Tuition fees include instruction, noon meals, break refreshments, and handout materials. 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. If a selected class is filled, you will be notified by the education committee and asked for your alternative choice(s).

REFUND POLICY: If the request for a registration fee refund is received by February 15, 2008, 100 percent of the fee will be refunded. Fees will not be refunded if the request is received after February 15, 2008.

> Please mail the completed registration form(s) and appropriate payment to: Colorado Chapter ICC, Education Committee, P.O. Box 961, Arvada, Colorado 80001 www.coloradochaptericc.org

NOTE: WE CANNOT ACCEPT REGISTRATIONS BY FAX. FULL PAYMENT MUST ACCOMPANY REGISTRATION FORM. OUR FEDERAL TAX IDENTIFICATION NUMBER IS: 23-7421122

FELLOWSHIP BREAKFAST-Tuesday, March 4th, 6:30 AM

The Colorado Chapter of ICC would like to invite you to our first Educational Institute Fellowship breakfast.

We are excited to have our long time electrical instructor, Mike Holt, speak during this breakfast. We all know Mike as America's most knowledgeable electrical trainer and author. Mike Holt is a former high school dropout and former gang member that turned his life around with God's help.

Besides being considered one of the nation's top NEC experts Mike is the father of seven children and a world class rated Barefoot Water-skier, winning his 5th barefoot championship in 2007. Videos of Mike's water-skiing will be shown during breakfast. What sets Mike apart from some is his commitment to living a balanced lifestyle; he places God first, then family, career, and self.

COST:

REGISTRATION: Reservation and payment must accompany registration. Please check the box for the fellowship breakfast on the registration and course selection form.

PARKING...PARKING...PARKING...PARKING...PARKING

The Education Committee is working hard to address the problems with the parking situation we experienced last year. The fact is that there are far more attendees than available on-site parking spaces. The Marriott will be making some additional spaces available to attendees, but parking on-site will cost \$ 7.00 a day. Free parking vouchers will not be provided for attendees.

Attendees, especially local attendees, are encouraged to carpool or take RTD's light rail. We will be continuing to try and identify other alternatives for parking in the area. Please refer to the Chapter website at www.coloradochaptericc.org from time to time to get updated information and alternatives.

COLORADO CHAPTER EDUCATIONAL INSTITUTE

www.coloradochaptericc.org

REGISTRATION AND COURSE SELECTION FORM

REGISTER EARLY - REGISTRATION DEADLINE IS <u>MONDAY</u>, FEBRUARY 4, 2008. Complete a SEPARATE REGISTRATION FORM FOR EACH PARTICIPANT. Please PRINT OR TYPE the following exactly as you wish it to appear on your badge:

NAME: (PRINT CL)	EARLY PLEASEI)					
REPRESENTING:						
PHONE: ()	EMA	EMAIL:				
MAILING ADDRESS:						
Te	lephone: (303) 430-2400 x2077 or Email: <u>dhor</u> i	ras@ci.westminster.co.us for progran	re information			
FEE CALCULATION (CHECKS ONLY) AND COURSE SELECTION – MARK THE APPLICABLE BOXES						
Attendance	Payment Received by 1/7/08	Payment Received after 1/7/08	Amount Enclosed for This Individual			
Full Week Per Day	□ \$ 260□ \$ 65	□ \$ 325□ \$ 75	\$			
Fellowship Breakfast	Tuesday, 3/4/08, 6:30AW	□ \$ 15				
MAIL TO: COLORADO CHAPTER ICC, EDUCATION COMMITTEE, P.O. BOX 961, ARVADA, COLORADO 80001 Full payment MUST accompany registration form(s). Registration deadline is Monday, February 4, 2008. Checks are the only form of acceptable payment. Our Federal Tax ID Number is: 23-7421122.						
DAY ONE - MONDAY	, MARCH 3, 2008 - 8:00 AM (All Classe					
181 Attitude Management: A Supervisor's Key to Success 182 Soils Identification and Foundation Design 183 IBC Wood Framing 184 2006 IBC Means of Egress 185 IBC Advanced Occupancy Classification 186 2006 IBC Multi-Family Construction		187 Fundamentals of the 2006 IRC 188 Creating a Hazard Mitigation and Emergency Management Plan 189 Backflow Prevention and Water Distribution 190 HVAC Fabrication & Installation Standards and Procedures 191 Grounding / Bonding of Electrical Systems (also check Day 2) 192 Legal Aspects of Fire Code Enforcement 193 2006 International Fire Code Overview (also check Day 2)				
DAY TWO - TUESDAY, MARCH 4, 2008 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)						
 281 Egress Behavior ar 282 Meth Labs 283 Design of Wood Fraction 284 2006 IRC Update 285 IBC Advanced School 286 Exterior Wall Syste 	ame Bldgs for High Wind, Snow & Seismic	287 2006 IBC Overview: Nonstructural Provisions 288 The Complete Permit Technician (also check Day 3) 289 Commercial Plumbing Provisions of the 2006 IPC 290 Mech. Insp. Under the IMC, IFGC and IRC (also check Day 3) 291 Grounding / Bonding of Electrical Systems (also check Day 1) 292 Big Box Retail and Fire Sprinklers: A Practical Approach 293 2006 International Fire Code Overview (also check Day 1)				
DAY THREE - WEDNESDAY, MARCH 5, 2008 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)						
〔	nce & Dangerous Buildings ns of the 2006 IBC Areas and Mixed Occupancies	387 2006 IBC Update 388 The Complete Permit Technician (also check Day 2) 389 Plumbing for Combination Inspectors 390 Mech. Irisp. Under the IMC, IFGC and IRC (also check Day 2) 391 Changes to the 2005 NEC 392 Basic Fire Sprinkler Review 393 IFC Chapter 27 Hazardous Materials				
DAY FOUR - THURSDAY, MARCH 6, 2008 — 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)						
[] 482 Alternate Materials [] 483 Wood-Frame Roof, [] 484 Residential Plan Re [] 485 IBC Advanced Mea	Management of the Building Function Shear Diaphragms & Var. Wood Products eview ns of Egress Components idoor Air Pollution & Mold (also check Day 3)	(
DAY FIVE - FRIDAY, I	MARCH 7, 2008 - 8:00 AM (All Classes					
 581 Accessibility 582 Performance Base 583 Basic Structural Co 584 2006 IRC Update 585 IBC Advanced Mea 586 Roofing Inspection 	concepts () 590 Up with Fire and Smoke (Fire & Smoke Dampers) () 591 Electrical Fires: Causes & Prevention (also check Day 4) eans of Egress Design () 590 Up with Fire and Smoke (Fire & Smoke Dampers) () 591 Electrical Fires: Causes & Prevention (also check Day 4) () 592 Use of Codes and Standards in Court					