



CITY OF RAPID CITY

Growth Management Department
300 Sixth Street
Rapid City, South Dakota 57701-2724

MEMORANDUM

TO: Mayor Shaw
City Council

FROM: Marcia Elkins, Director
Growth Management Department

DATE: November 16, 2005

RE: ICC International Codes Training
Denver, CO

Staff requests City Council approval of the travel request for Curt Bechtel, Code Consultant, Jeff Larus, Building Inspector III and Bill Charles, Building Inspector II, to attend the ICC International Codes Training seminar. The purpose of the seminar is to provide continuing education to the Building Inspections staff and to help comply with educational requirement of Insurance Services Organization. Participants will earn 3.5 Continuing Education Units for the five-day seminar.

The cost of travel is estimated at \$2,565.00 and includes the following expenses:

\$261.00	Mileage for City Vehicle**
\$459.00	Meals**
\$990.00	Lodging for 5 days (1-single occupancy; 1-double occupancy)
\$780.00	Registration (\$260 x 3 if paid by 1/9/06)
\$75.00	<u>Parking fees</u>
\$2,565.00	Total Travel Estimate

*Round trip mileage to Denver estimated at $406.77 \times 2 \times .32$ per mile

**Meals included in the seminar: lunch daily

Staff Recommendation: Staff recommends approval of the travel request for Curt Bechtel, Code Consultant, Jeff Larus, Building Inspector III, and Bill Charles, Building Inspector II, to attend the ICC International Codes Training seminar in Denver, CO, March 6-10, 2006 in an estimated amount of \$2,565.00.



**CITY OF RAPID CITY
TRAVEL REQUEST**

Person requesting travel Curt Bechtel Department #204 Growth Management

I hereby request permission to travel for the following purpose: (Give specific nature of business and interest of the City to justify cost involved.)

ICC International Codes Training

List all other City employees, if any, making the trip for the same purpose: _____
Jeff Larus, Bill Charles

Place of meeting or destination: Denver CO

Date of meeting March 6-10, 2006

Date trip to begin 3-5-06 Date trip will end 3-10-06

Method of transportation requested City Vehicle

Estimated transportation cost 406.77 x 2 x .32 \$ 261.00

Meals 459.00

Lodging 5 days \$99 x 2 990.00

Other costs - description Registration \$260 x 3 780.00

parking fees 75.00

Total estimated cost of trip \$ 2565.00

Signed: [Signature] Date March 1, 2006 Date 11/1/05
(person requesting travel) (Department Head)

When the cost of the trip will exceed \$500, per employee, this section must be signed.

In accordance with the provisions of Rapid City ordinances and travel regulations, consent is hereby given for travel as requested in the foregoing application. Maximum cost of trip authorized is \$ _____

Approved: _____ Date _____
Mayor

When the cost of the trip will exceed \$1,500, per event, Council approval is required.

Approved by Common Council on _____ (Date)

COLORADO CHAPTER EDUCATIONAL INSTITUTE

www.coloradochaptericc.org

REGISTRATION AND COURSE SELECTION FORM

REGISTER EARLY - REGISTRATION DEADLINE IS **MONDAY, FEBRUARY 6, 2006** 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 CLEARLY PLEASE!) Curt Bechtel

REPRESENTING: City of Rapid City

PHONE: (605) 394-4157 EMAIL: _____

MAILING ADDRESS: 300 Sixth St
Rapid City SD 57701

Telephone (303) 987-7554 or (303) 987-7573 or Email: nickle@lakewood.org or doujon@lakewood.org for program information

FEE CALCULATION (CHECKS ONLY) AND COURSE SELECTION - MARK THE APPLICABLE BOXES

Attendance	Payment Received by 1/9/06	Payment Received after 1/9/06	Amount Enclosed for This Individual
Full Week	\$ 260	\$ 325	\$
Per Day	\$ 65	\$ 75	

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 6, 2006
Checks are the only form of acceptable payment Our Federal Tax ID Number is 23-7421122

DAY ONE - MONDAY, MARCH 6, 2006 - 8.00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<ul style="list-style-type: none"> <input type="checkbox"/> 181 Managing with Impact <input type="checkbox"/> 182 Soils Identification and Foundation Design <input checked="" type="checkbox"/> 183 Building Areas, Fire Areas and Mixed Occupancies <input type="checkbox"/> 184 IBC Advanced Occupancy Classification <input type="checkbox"/> 185 IBC Fire Resistive Construction <input type="checkbox"/> 186 2003 International Residential Code 	<ul style="list-style-type: none"> <input type="checkbox"/> 187 A Fish Fry on Survival Island <input type="checkbox"/> 188 Plumbing Provisions of the 2003 IRC <input type="checkbox"/> 189 Air Conditioning and Refrigeration <input type="checkbox"/> 190 Grounding Vs Bonding of Electrical Systems (also check Day 2) <input type="checkbox"/> 191 2003 IFC Overview (also check Day 2) <input type="checkbox"/> 192 Legal Aspects of Code Administration <input type="checkbox"/> 193 Code Enforcement Techniques / Neighborhood Revitalization
DAY TWO - TUESDAY, MARCH 7, 2006 - 8.00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<ul style="list-style-type: none"> <input type="checkbox"/> 281 Residential Energy Code <input type="checkbox"/> 282 IBC Wood Framing <input checked="" type="checkbox"/> 283 Fire Protection Requirements of the IBC <input type="checkbox"/> 284 IBC Advanced Schematic Design <input type="checkbox"/> 285 Roofing Inspection <input type="checkbox"/> 286 2003 IBC Overview Nonstructural Provisions 	<ul style="list-style-type: none"> <input type="checkbox"/> 287 The Complete Permit Technician (also check Day 3) <input type="checkbox"/> 288 Radiant Basics <input type="checkbox"/> 289 2003 International Mechanical Code Overview <input type="checkbox"/> 290 Grounding & Bonding of Electrical Systems (also check Day 1) <input type="checkbox"/> 291 2003 IFC Overview (also check Day 1) <input type="checkbox"/> 292 The Wildland Urban Interface Code <input type="checkbox"/> 293 Environmental Crimes and Current Health Issue Prob & Solu
DAY THREE - WEDNESDAY, MARCH 8, 2006 - 8.00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<ul style="list-style-type: none"> <input type="checkbox"/> 381 Practical Application of Performance Based Eng Solutions <input type="checkbox"/> 382 Wind Load Provisions of the 2003 IBC <input checked="" type="checkbox"/> 383 Accessibility Provisions of the 2003 IBC <input type="checkbox"/> 384 IBC Advanced Types of Construction <input type="checkbox"/> 385 Moisture Control, Indoor Air Pollution & Mold (also check Day 4) <input type="checkbox"/> 386 2003 IBC Means of Egress 	<ul style="list-style-type: none"> <input type="checkbox"/> 387 The Complete Permit Technician (also check Day 2) <input type="checkbox"/> 388 2003 IPC Commercial Requirements <input type="checkbox"/> 389 Commercial Kitchen Hoods and Fire Suppression <input type="checkbox"/> 390 Changes to the 2005 NEC <input type="checkbox"/> 391 Fire Sprinkler Systems Plans Review <input type="checkbox"/> 392 Dealing with Hydrogen The Fuel of the Future <input type="checkbox"/> 393 Legal Aspects of Code Enforcement
DAY FOUR - THURSDAY, MARCH 9, 2006 - 8.00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<ul style="list-style-type: none"> <input type="checkbox"/> 481 Administration and Management of the Building Function <input type="checkbox"/> 482 Structural Concepts and Performance <input type="checkbox"/> 483 2003 International Residential Code <input type="checkbox"/> 484 IBC Advanced Means of Egress Components <input type="checkbox"/> 485 Moisture Control Indoor Air Pollution & Mold (also check Day 3) <input checked="" type="checkbox"/> 486 2003 IBC Overview Nonstructural Provisions 	<ul style="list-style-type: none"> <input type="checkbox"/> 487 Plan Review for the Permit Technician <input type="checkbox"/> 488 2003 IPC Water Distribution & Backflow Prevention <input type="checkbox"/> 489 2003 Fuel Gas Fundamentals <input type="checkbox"/> 490 Electrical Fires, Causes & Prevention (also check Day 5) <input type="checkbox"/> 491 Understanding Fire Alarm Systems (also check Day 5) <input type="checkbox"/> 492 Hazardous Materials General Provisions (also check Day 5) <input type="checkbox"/> 493 Understanding the International Property Maintenance Code
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<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 581 Glandestine Drug Labs Identification and Remediation <input type="checkbox"/> 582 Basic Structural Concepts <input type="checkbox"/> 583 2003 IBC Means of Egress <input type="checkbox"/> 584 IBC Advanced Means of Egress Design <input type="checkbox"/> 585 Concrete Inspection <input type="checkbox"/> 586 Fire Protected Curbside Sign and Installation 	<ul style="list-style-type: none"> <input type="checkbox"/> 587 Zoning and Land Use <input type="checkbox"/> 588 2003 IFCC and Gas Pipe Sizing <input type="checkbox"/> 589 Smoke and Fire Dampers <input type="checkbox"/> 590 Electrical Fires Causes & Prevention (also check Day 4) <input type="checkbox"/> 591 Understanding Fire Alarm Systems (also check Day 4) <input type="checkbox"/> 592 Hazardous Materials Control Provisions (also check Day 4) <input type="checkbox"/> 593 Certification Prep and Afternoon Exam

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NAME: (PRINT CLEARLY PLEASE!) JEFF LARUS

REPRESENTING: CITY OF RAPID CITY

PHONE: (605) 394 4157 EMAIL: JEFF.larus@rcgov.org

MAILING ADDRESS: 300 SIXTH STREET
RAPID CITY, SD 57701

Telephone (303) 987-7554 or (303) 987 7573 or Email nickle@lakewood.org or doujon@lakewood.org for program information

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Per Day	<input type="checkbox"/> \$ 65	<input type="checkbox"/> \$ 75	

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REPRESENTING: CITY OF RAPID CITY

PHONE (605) 394-4157 EMAIL: _____

MAILING ADDRESS: 300 SIXTH ST.
RAPID CITY, SD 57701

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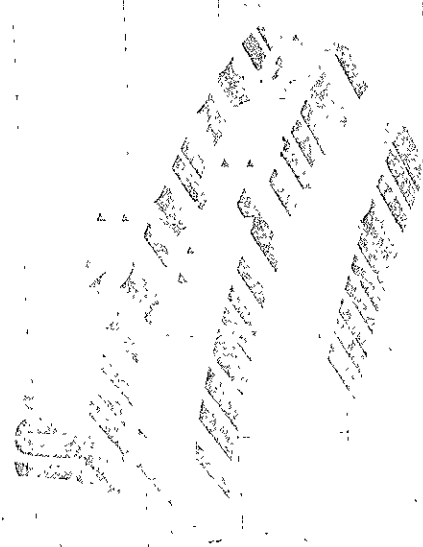
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INTERNATIONAL CODES TRAINING

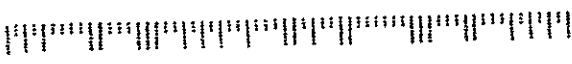
- International Building Code
- International Residential Code
- International Fire Code
- International Energy Conservation Code
- International Plumbing Code
- International Mechanical Code
- International Fuel Gas Code
- International Zoning Code



COLORADO CHAPTER EDUCATIONAL INSTITUTE

MARCH SIXTH THROUGH MARCH TENTH
TWO THOUSAND AND SIX
MARIOTT DENVER TECHNOLOGICAL CENTER
www.coloradochaptericc.org

- COURSE LIST
- SPECIAL INTEREST
- SIMPLIFIED ENGINEERING PRINCIPLES
- BASIC PLANS EXAMINATION
- ADVANCED PLANS EXAMINATION
- FIELD INSPECTION
- FIELD INSPECTION
- PERMIT TECHNICIANS
- INTERNATIONAL PLUMBING CODE
- INTERNATIONAL MECHANICAL CODE
- NATIONAL ELECTRICAL CODE
- INTERNATIONAL FIRE CODE
- INTERNATIONAL FIRE CODE

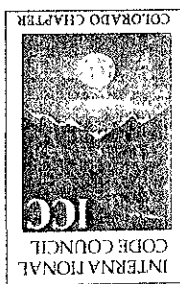


57701+2724-00 0009

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****AUTO**MIXED AADC 800
Mark A. Brodick
CITY OF RAPID CITY
300 6TH ST.
RAPID CITY SD 57701-2724

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



MARCH 2006 CURRICULUM

COURSE PATH	MAR 6 MONDAY	MAR 7 TUESDAY	MAR 8 WEDNESDAY	MAR 9 THURSDAY	MAR 10 FRIDAY
SPECIAL INTEREST	181 Managing with Impact	281 Residential Energy Code	381 Practical Application of Performance Based Engineering Solutions	481 Administration and Management of the Building Function	581 Clandestine Drug Labs Identification and Remediation
SIMPLIFIED ENGINEERING PRINCIPLES	182 Soils Identification and Foundation Design	282 IBC Wood Framing	382 Wind Load Provisions of the 2003 IBC	482 Structural Concepts and Performance	582 Basic Structural Concepts
BASIC PLANS EXAMINATION	183 Building Areas, Fire Areas and Mixed Occupancies	283 Fire Protection Requirements of the IBC	383 Accessibility Provisions of the 2003 IBC	483 2003 International Residential Code	583 2003 IBC Means of Egress
ADVANCED PLANS EXAMINATION	184 IBC Advanced Occupancy Classification	284 IBC Advanced Schematic Design	384 IBC Advanced Types of Construction	484 IBC Advanced Means of Egress Components	584 IBC Advanced Means of Egress Design
FIELD INSPECTION	185 IBC Fire-Resistive Construction	285 Roofing Inspection	385 and 485 Moisture Control, Indoor Air Pollution and Mold in Buildings		585 Concrete Inspection
FIELD INSPECTION	186 2003 International Residential Code	286 2003 IBC Overview. Nonstructural Provisions	386 2003 IBC Means of Egress	486 2003 IBC Overview: Nonstructural Provisions	586 Prestressed Concrete Special Inspection
PERMIT TECHNICIANS	187 A Fish Fry on Survival Island	287 and 387 The Complete Permit Technician		487 Plan Review for the Permit Technician	587 Zoning And Land Use
INTERNATIONAL PLUMBING CODE	188 Residential Plumbing Provisions of the '03 IPC & IRC	288 Radiant Basics	388 2003 IPC Overview for Commercial Inspections	488 2003 IPC Water Distribution & Backflow Prevention	588 2003 IFGC and Gas Pipe Sizing
INTERNATIONAL MECHANICAL CODE	189 Air Conditioning and Refrigeration Under the 2003 IMC	289 2003 International Mechanical Code Overview	389 Commercial Kitchen Hoods and Fire Suppression	489 2003 Fuel Gas Fundamentals	589 Smoke and Fire Dampers
NATIONAL ELECTRICAL CODE	190 and 290 Grounding versus Bonding Of Electrical Systems		390 Changes to the 2005 NEC	490 and 590 Electrical Fires Causes & Prevention	
INTERNATIONAL FIRE CODE	191 and 291 2003 International Fire Code Overview		391 Fire Sprinkler Systems Plans Review	491 and 591 Understanding Fire Alarm Systems	
INTERNATIONAL FIRE CODE	192 Legal Aspects of Code Administration	292 The Wildland Urban Interface Code	392 Dealing with Hydrogen, The Fuel of the Future	492 and 592 Hazardous Materials and the General Provisions of Chapter 27 of the 2003 IFC	
CODE ENFORCEMENT	193 Code Enforcement Techniques / Neighborhood Revitalization	293 Environmental Crimes Awareness and Current Health Issue Problems & Solutions	393 Legal Aspects of Code Enforcement	493 Understanding the International Property Maintenance Code	593 Certification Prep and Afternoon Exam

OVERVIEW

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

2006 HIGHLIGHTS:

- Now **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.
- **New!** A full 5-day course path covering the diverse topics frequently encountered by Code Enforcement Officers.
- **New!** A new course from Lynn Pollard on "Managing with Impact"
- **New!** A comprehensive course on HVAC and Refrigeration requirements for residential and commercial applications.
- **New!** A course that inter-relates the IPC and IRC plumbing requirements pertaining to residential buildings.
- **New!** This course will focus on location, combustion air and venting of gas appliances as well as gas pipe sizing
- **New!** A Fire Code course for our times: Dealing with Hydrogen, the Fuel of the Future.
- **Back!** An IPC class covering both hydronic and electric radiant heating systems, including installation and controls.
- **More!** Two offerings each on the IRC, Non-Structural Provisions of the IBC and IBC Means of Egress.
- **Back!** The International Energy Conservation Code (IECC) for Residential applications!
- **Back!** Wind Load Provisions of the IBC!
- **Back!** Pete Tyree is back with "Basic Structural Concepts," the best in "engineering for non-engineers"!
- **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 2003 IBC from Greg Keith! This is a week that you won't forget!
- **Back and Revised!** A practical interactive workshop covering a variety of performance based design solutions using real life examples.
- **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 - Now expanded to two full days!
- **More Electrical!** Two days on grounding & bonding, arguably one of the most important and least understood subjects in the electrical code, from Mike Holt, the best guy to tell it!
- **Hot!** 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 covering Hazardous Materials, Legal Aspects, UWI Code. Hydrogen Fueling and Fire Sprinkler Plan review.

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 FEBRUARY 6, 2006.** Registrations or fees received after February 6th or faxed registrations 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 code books and other references available for viewing and purchase at the Institute.

LOCATION:

- Marriott Hotel, Denver Technological Center (DTC), south of Denver at I-25 & Belleview (Exit 199).
- Room rates are \$99/night single or double until February 6th or until our room block is filled.
- Reservations 1-800-228-9290 or local number 303-779-1100, or write Marriott Denver Tech Center at 4900 S. Syracuse Dr., Denver, CO 80237. Be sure to reference the **Colorado Building Officials** when making your reservations, and obtain those reservations as soon as possible.

COURSES AND INSTRUCTORS

All courses will be based upon the 2003 editions of the IBC, IECC, IFGC, IFC, IMC, IPC, IRC and the ICC Performance Code and the 2002 edition of the NEC. Code books will also be available for purchase. **PLEASE BRING A CALCULATOR AND THE APPLICABLE CODE BOOK(S).** 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: MANAGING WITH IMPACT

Lynn Pollard Managing with impact requires thoughtfulness, diligence and assertiveness. This program will assist you in maximizing your communication and delegation skills with your employees while building trusting, open relationships that result in higher productivity and healthier morale.

281: RESIDENTIAL ENERGY CODE

Eric Makela. This class will provide an overview of the energy efficiency provisions of the 2003 IRC and residential provisions of the International Energy Conservation Code (IECC), including an overview of the 2006 edition. Plan review and inspection issues will be addressed. The use of the U.S. Department of Energy's REScheck energy code compliance tools will also be discussed.

381: PRACTICAL APPLICATION OF PERFORMANCE BASED ENGINEERING SOLUTIONS

Steve Rondinelli and Dave Leiker, Rolf Jensen & Assoc. This course is aimed at providing real life examples of performance based design (PBD) solutions. The course will cover a broad range of applications to give the attendees an understanding of methods that can be used to understand the basic technical aspects of PBD reports. It will explore practical applications of computer modeling and calculations for fire exposure on unprotected structural members, smoke control design, tenability and egress analysis, and other issues seen in PBD uses in building designs. It will also focus on providing an overview of PBD tools for technical applications and not on actual engineering calculations

481: ADMINISTRATION AND MANAGEMENT OF THE BUILDING FUNCTION

Jere Kersnar. A class for building and fire officials, community development directors, city 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, departmental organization, determining and justifying staffing and fee levels, program budgeting, performance measures, enterprise funding and more

581: CLANDESTINE DRUG LABS - IDENTIFICATION AND REMEDIATION

Tom Meyers. The manufacturing of methamphetamine has grown exponentially, becoming a significant problem for local government. This fast-paced course is designed to teach inspectors how to identify a meth lab how the drug is manufactured, and what forms of hazardous contamination is left behind. The second part of the course will discuss remediation methodology and the building department's role in administering the clean-up.

182: SOILS IDENTIFICATION AND FOUNDATION DESIGN

Bill Koechlin, P.E. A detailed discussion of soils and foundation investigations and how they are implemented into foundation design

282: IBC WOOD FRAMING

David P. Tyree, P.E., Dennis Pitts. This is an all-day course intended for new inspectors and plans examiners and for anyone else desiring a refresher in the basics of general wood frame construction primarily as it applies to dwellings.

382: WIND LOAD PROVISIONS OF THE 2003 IBC

John R. Henry, P.E. This training program examines the new wind load provisions of the International Building Code. The design requirements for wind are illustrated by design examples, addressing both the simplified wind design procedure of the 2003 IBC and the analytical procedure in ASCE 7.

482: STRUCTURAL CONCEPTS AND PERFORMANCE

John R. Henry, P.E. A discussion of engineering fundamentals and their application to bending, shear, deflection and combined loads in structures, as well as examples and discussion of failures in structures.

582: BASIC STRUCTURAL CONCEPTS

Perry C. "Pete" Tyree, P.E. A general discussion of engineering fundamentals necessary to better understand how structures are designed.

183: BUILDING AREAS, FIRE AREAS AND MIXED OCCUPANCIES

Steve Thomas, Tom Meyers. 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, fire-resistance-rated construction and mixed-use buildings. It will include topics on allowable areas, area increases, unlimited area buildings, fire area concept & construction, incidental/accessory use areas and separated/non-separated uses.

283: FIRE PROTECTION REQUIREMENTS OF THE IBC

Tom Meyers. This class focuses on those areas of the code that deal with a building's fire safety features, including both fire protection and resistance. The relationship between active and passive fire protection will be discussed. The class will cover topics such as Types of Construction, Fire Walls/Barriers/Areas, Fire/Smoke Dampers, Opening/Penetration Protection, Sprinklers, Standpipes and Alarm Detection systems.

383: ACCESSIBILITY PROVISIONS OF THE 2003 IBC

Tom Meyers. This seminar is designed to provide an in-depth look at the accessibility provision of the 2003 International Building Code. The class will focus on not only the scoping provisions of the code, but also the design standards, which are needed to assure that accessibility is provided.

483 OR 186: 2003 INTERNATIONAL RESIDENTIAL CODE

Patrick Buckley. Intended for persons new to the IRC or moving from the UBC to the IRC, this class will explore the many differences between the two codes and will focus on building planning, inspection and fundamental code provisions. The IRC is now the only code governing all aspects of one- and two-family dwelling construction. This course is essential for persons new to the IRC. (Note: This class is offered on either Monday or Thursday)

583 OR 386: 2003 IBC MEANS OF EGRESS

Steve Thomas. This course will offer a basic overview of the means of egress requirements of Chapter 10, 2003 IBC, with supporting practical exercises. (Note: This class is offered on either Wednesday or Friday)

184: IBC ADVANCED OCCUPANCY CLASSIFICATION

Greg Keith. This graduate level workshop will discuss the occupancies contained in Chapter 3 of the 2003 IBC. Methods relating to the proper classification of occupancies will be discussed. Differences between UBC and IBC occupancy categories will be emphasized. **IT IS HIGHLY RECOMMENDED THAT THE STUDENT REGISTER FOR ALL FIVE CLASSES IN THE ADVANCED PLANS EXAMINATION COURSE PATH.**

284: IBC ADVANCED SCHEMATIC DESIGN	Greg Keith. This advanced workshop, geared towards plans examiners and Architects, will discuss the provisions contained in Chapters 3-5 of the 2003 IBC. Technical requirements relating to allowable area and height determination and mixed occupancies will be stressed.
384: IBC ADVANCED TYPES OF CONSTRUCTION	Greg Keith This graduate level workshop will explain the types of construction requirements contained in Chapters 4, 6 and 7 of the 2003 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.
484: IBC ADVANCED MEANS OF EGRESS COMPONENTS	Greg Keith. This graduate level workshop will focus on the means of egress component requirements contained in Chapter 10 of the 2003 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.
584: IBC ADVANCED MEANS OF EGRESS DESIGN	Greg Keith. This graduate level workshop will cover the means of egress design requirements contained in Chapter 10 of the 2003 IBC. The differences in the approach to the "three part" means of egress between the UBC and IBC will be discussed in detail.
185: IBC FIRE-RESISTIVE CONSTRUCTION	Tom Thompson, Bob Eugene, Wally Prebis, P.E. An in-depth discussion of the general fire-resistive requirements of Chapters 7 and 8, 2003 IBC and E-119 and other ASTM Standards, including a detailed discussion of specific fire-resistive construction requirements.
285: ROOFING INSPECTION	Rich Boon. An overview of the provisions of Chapter 15, 2003 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.
385 AND 485: MOISTURE CONTROL AND INDOOR AIR POLLUTION AND MOLD IN BUILDINGS	Joseph Lstiburek. An entertaining, stimulating and thought-provoking two days that will change the way you think about how we build our buildings today. Topics will include changes in building technology, why we don't build the way we used to, vapor diffusion and air flow retarders, vented and unvented roof assemblies and crawl spaces, keeping the rain and ground water out, biologicals, indoor air quality, HVAC, recent issues on mold and alternative materials & techniques.
585: CONCRETE INSPECTION	Red Holland, P.E., Mark Kluver, P.E. A discussion of the fundamentals of producing and inspecting quality reinforced concrete construction. Instruction will provide a practical working knowledge of the basic inspection and testing practices for concrete and reinforcing steel.
286 OR 486: 2003 IBC OVERVIEW: NONSTRUCTURAL PROVISIONS	Steve Thomas (286), Tom Meyers (486). This seminar is designed to provide a broad overview of the nonstructural provisions of the 2003 IBC. It will be of special interest to anyone associated with the building construction industry, code regulatory agencies, design professionals, contractors, home builders and building owners. (Note: This class is offered on either Tuesday or Thursday)
586: PRESTRESSED CONCRETE SPECIAL INSPECTION	Walter J. "Wally" Prebis, P.E., Doug Schlegel, P.E. An in-depth discussion of prestressed concrete theory, pretension and posttension methods, inspection requirements, and practical applications. Attendees will receive the latest version of the <i>Prestressed Concrete Institute Design Handbook</i> .
187: A FISH FRY ON SURVIVAL ISLAND	Franny Knight, Shenanigans. This is an indoor training camp designed for Permit Technicians wishing to revolutionize their workplace. Imagine a working environment where fun, joy, energy, productivity and incredible teamwork can drive out stress, boredom, toxic energy and burnout. Learn to stand out from the crowd by providing a pleasant atmosphere for your customers.
287 AND 387: THE COMPLETE PERMIT TECHNICIAN	Steve Burger, CBO. This two-day course is intended to provide essential information in the areas of code history and administration, legal aspects, customer service, basic construction, inspection process and zoning terms, permit fee calculations, basic occupancy and construction types, basic means of egress and dealing with difficult customers. Please bring a calculator, 2003 International Building Code, 2003 International Zoning Code, Legal Aspects of Code Administration, and "You Can Build It" information book.
487: PLAN REVIEW FOR THE PERMIT TECHNICIAN	Steve Thomas, Colorado Code Consulting, LLC. This fast-paced, one-day class is designed primarily for the Building Department employees who have an interest in learning more about the plan review aspects of working at the public counter. The course is intended to provide essential information that will assist the Permit Technician in doing plan review as it relates to such items as patio covers, room additions, decks, garages, hot tubs and other items that can be encountered during the plan review process. Completion of this class will provide the basic skills to perform a plan review. Please bring the 2003 International Residential Code.
587: ZONING AND LAND USE	Harold Stitt, Senior Planner. This class will provide a thought-provoking and entertaining overview of the 2003 International Zoning Code. The class is intended for permit technicians and those interested in learning basic zoning concepts. Topics to be covered include zoning

	history, classifications and uses, access requirements, easements, water and sewer services, fire department development conditions and additional improvements that may be required.
188: RESIDENTIAL PLUMBING PROVISIONS OF THE 2003 IPC & IRC	Pat Clark. This class will review and discuss highlights of each chapter of the IPC and IRC as they apply to residential applications, of special interest to combination inspectors. Be sure to bring your IPC Commentary as well as both the 2003 IPC and IRC.
288: RADIANT BASICS	Mark Eatherton. Don't let the name of this course fool you, it is a very comprehensive course on the fundamentals of radiant heating, including floors, walls and ceilings. This course deals with both hydronic and electric systems, exploring all the hardware involved as well as the design and installation of systems. 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.
388: 2003 IPC OVERVIEW FOR COMMERCIAL INSPECTIONS	Pat Clark. This class will review and discuss the highlights of each chapter as they apply to commercial inspections. The 2003 IPC Commentary and 2003 IPC are a must.
488: IPC WATER DISTRIBUTION & BACKFLOW PREVENTION	John LaTorra. A discussion of the water distribution provisions of the 2003 IPC, as well as cross connection, back flow and back siphonage hazards and related requirements.
588: INTERNATIONAL FUEL GAS CODE & GAS PIPE SIZING	John LaTorra. A discussion of the provisions for fuel gas piping as contained in the 2003 International Fuel Gas Code, along with supporting practical exercises.
189: AIR CONDITIONING AND REFRIGERATION UNDER THE 2003 IMC	Karl Biemel. This class will first cover various residential requirements then discuss the requirements for commercial refrigeration and chillers, including cooling towers and heat pumps. Equipment information updates from the industry will also be discussed.
289: 2003 INTERNATIONAL MECHANICAL CODE OVERVIEW	Sam Dardano. A broad overview of the International Mechanical Code (IMC), including instructions on the residential and light commercial provisions and an overview of the provisions commonly encountered by inspectors and contractors, such as: equipment, warm air heating, vented decorative appliances, ducts, combustion air, venting, and other miscellaneous subjects plus any significant changes in the next edition of the IMC.
389: COMMERCIAL KITCHEN HOODS AND FIRE SUPPRESSION	Sam Dardano. Review of the installation requirements for commercial kitchen hoods, including mechanical, fire-resistive construction and fire suppression systems, as well as proper acceptance testing of the completed installation. Training will be based on the IMC and UL300 standards and include information on approved fire protective systems.
489: 2003 FUEL GAS FUNDAMENTALS	Sam Dardano. This new class will focus on location of gas appliances, required combustion air, gas pipe sizing and venting of gas appliances.
589: SMOKE AND FIRE DAMPERS	Sam Dardano. This class will include specific review of code requirements for the proper installation of fire and fire/smoke dampers and through-penetration firestop systems.
190 AND 290: GROUNDING VERSES BONDING OF ELECTRICAL SYSTEMS	Mike Holt. 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.
390: CHANGES TO THE 2005 NATIONAL ELECTRICAL CODE	John Travers. 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.
490 AND 590: ELECTRICAL FIRES: CAUSES AND PREVENTION	John Travers. This very popular course has been expanded to two full days and continues to include a even more hands-on information that will generate a great deal of discussion. A must attend for Code Officials and Electricians alike.
191 AND 291: 2003 INTERNATIONAL FIRE CODE OVERVIEW	Tom DeMint, Poudre Fire Authority. This course provides a two-day in-depth review of the critical elements of the 2003 edition of the International Fire Code. It covers all of the major aspects of the IFC and is appropriate for Fire Code Enforcers, Engine Company Officers, Architects, Engineers, and Designers. Bring a copy of the 2003 IFC with you.
391: FIRE SPRINKLER SYSTEMS PLANS REVIEW	Jared Moravec, Union Colony Fire Rescue Authority. Basic considerations of plans review for fire sprinkler systems will be discussed. The course will focus on reviewing design and layout of sprinkler systems in accordance with NFPA 13, 13R, 13D, and other nationally recognized standards. A practical approach will be used. This course meets continuing education requirements for those certified as a Fire Suppression Systems Inspector by the State of Colorado. Bring a copy of NFPA 13, 13R and 13D to class.
491 AND 591: UNDERSTANDING FIRE ALARM SYSTEMS:	David Lowrey, Fire Protection Engineer and Tami Holley, Fire Protection Engineer. This 2-day course is set up to provide a basic and advanced understanding of how to perform a quality plan review based on the design of the system and an understanding of how and why NFPA 72 is written. Inspection testing & maintenance of fire alarm systems will be covered.

192: LEGAL ASPECTS OF CODE ADMINISTRATION

Linda Pieczynski, Attorney-at-Law. This course provides code officials 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, establishing procedures for a board of appeals, application of property law concepts to code enforcement, theories of legal liability, the principals, defenses and immunities of negligence and civil rights acts, guidelines for court testimonies. Legal aspects textbooks will be available at the bookstore for purchase.

292: THE WILDLAND URBAN INTERFACE CODE

Chris White, Anchor Point Group. This class is a one-day overview of the Wildland Urban Interface Code. This code is intended to assist the jurisdiction in assuring appropriate development in the wildland urban interface. Components of fuels reduction, access, water supply and ignition resistant construction will be discussed. Bring a copy of the 2003 Urban Wildland Interface Code with you.

392: DEALING WITH HYDROGEN, THE FUEL OF THE FUTURE

Kevin Scott, Kern County Fire Department. This class will discuss the regulations affecting the fueling of hydrogen vehicles. Topics will include hydrogen storage, piping, generation, and dispensing practices.

492 AND 592: HAZARDOUS MATERIALS AND THE GENERAL PROVISIONS OF CHAPTER 27 OF THE 2003 IFC

Reinhard Hanselka, PE, REA. This class will be a comprehensive study of Chapter 27 of the International Fire Code with practical examples and illustrations. This chapter explores the general requirements for the storage or use of all hazardous materials. Learn how to apply the requirements to all hazardous materials exceeding the permit quantity and understand control areas within the IFC. Bring a copy of the 2003 IFC with you.

193: CODE ENFORCEMENT TECHNIQUES / NEIGHBORHOOD REVITALIZATION

Carl Smart, City of Fort Worth. This class will provide an overview of the latest techniques and strategies (traditional and non-traditional) to enforce local codes and ordinances. Topics will include issuance of violation notices and citations, effective use of administrative boards, citizen involvement programs, public education & prevention programs, and cost-effective abatement programs. The class will also discuss how to evaluate the agency's impact on the neighborhood, how to identify programs & community efforts that impact revitalization and how to determine ways to expand enforcement effectiveness through agency partnerships.

293: ENVIRONMENTAL CRIMES AWARENESS AND CURRENT HEALTH ISSUE PROBLEMS & SOLUTIONS

Robert Kalutkiewicz, EPA and Tenney Bays, Brian Hlavacek, Chuck McCammon and Jessica Gonzales of Tri-County Health. The morning session is designed to give a broad overview on how to identify potential environmental crimes covered under federal and state statutes and how to distinguish between civil or criminal violations. The afternoon session will deal with such local environment and health issues as rodents, meth labs cleanup, mold and mosquitoes (West Nile Virus).

393: LEGAL ASPECTS OF CODE ENFORCEMENT

Nancy Reid, AACE. This course explains the steps necessary for case preparation, including court appearance and testifying preparation. Additional topics will include Right of Entry and Criminal Law verses Civil Law. Legal terms and their meanings will also be covered as well as some pertinent case law.

493: UNDERSTANDING THE INTERNATIONAL PROPERTY MAINTENANCE CODE

Dan Peterson, AACE. This course will explain the philosophy, attitudes and values surrounding property maintenance enforcement. Minimum requirements of the code will be discussed as well as the rationale and intent for enforcement. Basic inspection principles and techniques will also be outlined.

593: CERTIFICATION PREP AND AFTERNOON EXAM

Dan Peterson, AACE. This morning class will prepare the student to take the AACE Property Maintenance, Housing or Zoning Inspector certification exams in the afternoon session or in the near future. An open-book practice exam will demonstrate the proper use of the code books. Bring your appropriate codes with you. NOTE: The afternoon certification exams require prior separate registration and fees. Go to the Education & Publications section at www.coloradochaptericc.org for a registration form or call Joyce Parsons at 303.762.2356 for more information.

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 19, 2005**, 100 percent of the fee will be refunded. Fees will not be refunded if the request is received after **February 19, 2005**.

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

COLORADO CHAPTER EDUCATIONAL INSTITUTE

www.coloradochaptericc.org

REGISTRATION AND COURSE SELECTION FORM

REGISTER EARLY - REGISTRATION DEADLINE IS **MONDAY, FEBRUARY 6, 2006**. 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 CLEARLY PLEASE!)

REPRESENTING: _____

PHONE: () _____ EMAIL: _____

MAILING ADDRESS: _____

Telephone: (303) 987-7554 or (303) 987-7573 or Email: nickle@lakewood.org or doujon@lakewood.org for program information

FEE CALCULATION (CHECKS ONLY) AND COURSE SELECTION – MARK THE APPLICABLE BOXES

Attendance	Payment Received by 1/9/06	Payment Received after 1/9/06	Amount Enclosed for This Individual
Full Week	<input type="checkbox"/> \$ 260	<input type="checkbox"/> \$ 325	\$
Per Day	<input type="checkbox"/> \$ 65	<input type="checkbox"/> \$ 75	

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 6, 2006
Checks are the only form of acceptable payment. Our Federal Tax ID Number is: 23-7421122

DAY ONE - MONDAY, MARCH 6, 2006 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<input type="checkbox"/> 181 Managing with Impact <input type="checkbox"/> 182 Soils Identification and Foundation Design <input type="checkbox"/> 183 Building Areas, Fire Areas and Mixed Occupancies <input type="checkbox"/> 184 IBC Advanced Occupancy Classification <input type="checkbox"/> 185 IBC Fire-Resistive Construction <input type="checkbox"/> 186 2003 International Residential Code	<input type="checkbox"/> 187 A Fish Fry on Survival Island <input type="checkbox"/> 188 Plumbing Provisions of the 2003 IRC <input type="checkbox"/> 189 Air Conditioning and Refrigeration <input type="checkbox"/> 190 Grounding Vs Bonding of Electrical Systems (also check Day 2) <input type="checkbox"/> 191 2003 IFC Overview (also check Day 2) <input type="checkbox"/> 192 Legal Aspects of Code Administration <input type="checkbox"/> 193 Code Enforcement Techniques / Neighborhood Revitalization
DAY TWO - TUESDAY, MARCH 7, 2006 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<input type="checkbox"/> 281 Residential Energy Code <input type="checkbox"/> 282 IBC Wood Framing <input type="checkbox"/> 283 Fire Protection Requirements of the IBC <input type="checkbox"/> 284 IBC Advanced Schematic Design <input type="checkbox"/> 285 Roofing Inspection <input type="checkbox"/> 286 2003 IBC Overview: Nonstructural Provisions	<input type="checkbox"/> 287 The Complete Permit Technician (also check Day 3) <input type="checkbox"/> 288 Radiant Basics <input type="checkbox"/> 289 2003 International Mechanical Code Overview <input type="checkbox"/> 290 Grounding & Bonding of Electrical Systems (also check Day 1) <input type="checkbox"/> 291 2003 IFC Overview (also check Day 1) <input type="checkbox"/> 292 The Wildland Urban Interface Code <input type="checkbox"/> 293 Environmental Crimes and Current Health Issue Prob. & Solu.
DAY THREE - WEDNESDAY, MARCH 8, 2006 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<input type="checkbox"/> 381 Practical Application of Performance Based Eng. Solutions <input type="checkbox"/> 382 Wind Load Provisions of the 2003 IBC <input type="checkbox"/> 383 Accessibility Provisions of the 2003 IBC <input type="checkbox"/> 384 IBC Advanced Types of Construction <input type="checkbox"/> 385 Moisture Control, Indoor Air Pollution & Mold (also check Day 4) <input type="checkbox"/> 386 2003 IBC Means of Egress	<input type="checkbox"/> 387 The Complete Permit Technician (also check Day 2) <input type="checkbox"/> 388 2003 IPC Commercial Requirements <input type="checkbox"/> 389 Commercial Kitchen Hoods and Fire Suppression <input type="checkbox"/> 390 Changes to the 2005 NEC <input type="checkbox"/> 391 Fire Sprinkler Systems Plans Review <input type="checkbox"/> 392 Dealing with Hydrogen, The Fuel of the Future <input type="checkbox"/> 393 Legal Aspects of Code Enforcement
DAY FOUR - THURSDAY, MARCH 9, 2006 – 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<input type="checkbox"/> 481 Administration and Management of the Building Function <input type="checkbox"/> 482 Structural Concepts and Performance <input type="checkbox"/> 483 2003 International Residential Code <input type="checkbox"/> 484 IBC Advanced Means of Egress Components <input type="checkbox"/> 485 Moisture Control, Indoor Air Pollution & Mold (also check Day 3) <input type="checkbox"/> 486 2003 IBC Overview: Nonstructural Provisions	<input type="checkbox"/> 487 Plan Review for the Permit Technician <input type="checkbox"/> 488 2003 IPC Water Distribution & Backflow Prevention <input type="checkbox"/> 489 2003 Fuel Gas Fundamentals <input type="checkbox"/> 490 Electrical Fires Causes & Prevention (also check Day 5) <input type="checkbox"/> 491 Understanding Fire Alarm Systems (also check Day 5) <input type="checkbox"/> 492 Hazardous Materials General Provisions (also check Day 5) <input type="checkbox"/> 493 Understanding the International Property Maintenance Code
DAY FIVE - FRIDAY, MARCH 10, 2006 - 8:00 AM (All Classes Are Full Day - Choose Only One Class Per Day)	
<input type="checkbox"/> 581 Clandestine Drug Labs. Identification and Remediation <input type="checkbox"/> 582 Basic Structural Concepts <input type="checkbox"/> 583 2003 IBC Means of Egress <input type="checkbox"/> 584 IBC Advanced Means of Egress Design <input type="checkbox"/> 585 Concrete Inspection <input type="checkbox"/> 586 Prestressed Concrete Special Inspection	<input type="checkbox"/> 587 Zoning and Land Use <input type="checkbox"/> 588 2003 IFGC and Gas Pipe Sizing <input type="checkbox"/> 589 Smoke and Fire Dampers <input type="checkbox"/> 590 Electrical Fires - Causes & Prevention (also check Day 4) <input type="checkbox"/> 591 Understanding Fire Alarm Systems (also check Day 4) <input type="checkbox"/> 592 Hazardous Materials General Provisions (also check Day 4) <input type="checkbox"/> 593 Certification Prep and Afternoon Exam

*** Call the Marriott DTC at 800-228-9290 or 303-779-1100 for Hotel Accommodations ***
 When calling, be sure to reference the 'Colorado Building Officials' for available room rates of \$ 99 per night