

Beehive Chapter of ICC



Annual Spring Training

April 24-26, 2017

Utah Valley Convention Center
220 W. Center Street
Provo, Utah 84601

*Approved AIA Courses,
earn AIA CEUs*

Partial funding by:



PREFERRED
EDUCATION
PROVIDER



AIA
Utah



*Utah Division of Occupational &
Professional Licensing (DOPL)*

Welcome

Dear Beehive Chapter Members, Associates, and Friends:

The Beehive Chapter Board would like to extend an invitation to each of you to join us at our Annual Beehive Chapter Education and Training Conference. We have put together a great list of courses with outstanding presenters. This will be a great way to earn continuing education units and expand your knowledge and understanding of the codes.

The conference will again be held at the Utah Valley Convention Center. This has proven to be an excellent home for your conference. All classes have been approved by ICC and each attendee will receive preferred provider education credits. We are also providing AIA credit for architects.

We will be providing a light breakfast in addition to lunch each day. There will also be refreshments served during the breaks. Please come join us at this year's Beehive Chapter Annual Education and Training Conference, we look forward to seeing you.

George Reid

Beehive Chapter President

About our Annual Spring Training

- Registration will begin at 7:30 A.M. each day with classes will begin promptly at 8:00 A.M.
- Learn from both national and local experts on several topics related to the State of Utah adopted codes.
- Breakfast, lunch, and refreshments during breaks will be provided.
- Partial funding for this conference has been provided by the Division of Occupational & Professional Licensing (DOPL) from the 1% surcharge funds from all building permits.

ICC Preferred Provider / AIA Credits

The Beehive Chapter is an approved ICC Preferred Provider. In addition, the Utah Chapter of AIA has approved these courses for those seeking AIA CEUs. All attendees will receive CEU certificates electronically following completion of their attendance at the conference.



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Registration

Registration for this year's conference must be completed online by clicking the link below. Please be aware that you must register ***each*** participant separately. The cost for registration is \$85.00 per day or \$225.00 for all three days. Fee includes classes, associated handouts, catered lunch, and two breaks each day.

Registration Link:

<https://form.iotform.com/70087535083154>

Please be aware that you will need to select the classes you are planning on attending (see the schedule in the middle of this packet). We are **no longer able to provide CEU's to General Contractors**, but other contractors (i.e. Electrical, Mechanical, Plumbing, etc.) will need to input their state license information on the registration page for their CEU's.

If paying by check, after registering online, please make your check payable to the **Beehive Chapter** and mail your registration to...

Beehive Chapter Registration
Attn: Paul Ashton, Treasurer
56 North State Street
Orem, Utah 84057

For questions please email Paul Ashton at beehivechaptertreasurer@gmail.com

Utah Valley Convention Center

The Conference will be held on the third floor of the Utah Valley Convention Center located at 220 West Center Street in Provo, Utah. Free parking is located behind the conference center as shown in the picture at the bottom of this page. Please see below for driving directions to the conference center.

From Salt Lake

- Take Interstate I-15 South
- Take Center Street (Exit 265) toward Provo, and stay straight to go onto Center Street.
- The Convention Center will be on the left.

From St. George

- Take Interstate I-15 North toward Salt Lake
- Take Center Street (Exit 265) toward Provo, and stay straight to go onto Center Street.
- The Convention Center will be on the left.



Course Descriptions – Day 1

2015 IBC MEANS OF EGRESS *(By: Doug Thornburg)*

This seminar will help attendees to understand the code requirements for establishing a means of egress in buildings. Attendees will be provided with an ICC Workbook which will serve as the basis of the course. The three parts of the egress system will be discussed in detail and the eight fundamental means of egress design issues will be clarified. Other egress issues such as occupant load calculations, door hardware, horizontal exits, etc. will also be discussed.

2014 NEC UPDATE *(By: Chris Jensen)*

This course will highlight the changes made to the 2014 National Electrical Code. Each Chapter of the NEC will be addressed and the more significant changes will be discussed in detail. The IAEI Analysis of Changes 2014 NEC book will be used as the basis of this presentation.

ACCA MANUAL J – LOAD CALCULATIONS

(By: Brent Ursenbach)

This class will help attendees to understand how building mechanical loads are to be calculated in accordance with ACCA Manual J as required by the IRC. Each attendee will receive a copy of ACCA Manual J as well as a copy of a new ACCA checklist, designed for use in verifying Manual J, D and S procedure accuracy. Many common challenges faced by code officials will be discussed.

2015 IBC BUILDING AREAS, FIRE AREAS & MIXED OCCUPANCIES *(By: Steve Thomas)*

Comprehensive discussion of the major compartmentalization 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.

Course Descriptions – Day 2

2015 IEBC OVERVIEW *(By: Roger Axel)*

This seminar will introduce critical concepts of the 2015 International Existing Building Code® (IEBC®). It will provide a basis for the correct use and application of the code. It will build an understanding of the intent of the code through detailing basic tables, categorizations and a case study.

2015 IBC: MULTI-FAMILY DWELLINGS *(By: Todd Snider)*

This class will focus on the specific IBC requirements for multifamily dwellings such as apartment complexes. The course will include accessibility requirements of IBC 1107 and Chapter 10 of ICC A117.1-09 for Type A and B units. It will also cover some common problems associated with the design of multifamily buildings including fire rating, exhaust systems, construction types, etc. Requirements for accessory structures such as pools and carports will also be discussed.

ACCA MANUAL D – DUCT DESIGN *(By: Brent Ursenbach)*

This class will help attendees to understand how the duct design needs to be accomplished in order to comply with ACCA Manual D as required by the IRC. Each attendee will receive a copy of ACCA Manual D as well as a copy of a new ACCA checklist, designed for use in verifying Manual J, D and S procedure accuracy. Many common challenges faced by code officials will be discussed.

RAPID INSPECTION TECHNIQUES (RIT) FOR FIRE PREVENTION *(By: Scott Adams)*

This seminar is intended to assist fire code officials to master their skills in code enforcement. Participants will be presented with specific fire and life safety scenarios affecting multiple occupancies and will address specific code provisions. We will discuss the IFC administrative requirements, occupancy classification, general precautions against fire, emergency planning and preparedness, fire service features, interior finish, decorative materials and furnishings, fire protection systems, and means of egress.

Instructors *(continued)*



Doug Thornburg is currently Vice-President and Technical Director of Products and Services for ICC. Doug continues to provide building code seminars nationally and has developed numerous educational texts and resource materials. He was presented with ICC's inaugural Educator of the Year Award, recognizing his outstanding contributions in education and training. A graduate of Kansas State University and a registered architect, Doug has over 36 years of experience in building code training and administration.



Jay Woodward is a Senior Staff Architect for ICC. His primary responsibility is the development of new ICC publications and instructing seminars. Among the publications he has authored or co-authored are the Significant Changes books on the IBC, IMC and A117.1 standard, and the recent ICC book Firestopping, Joint Systems and Dampers. Jay has more than 30 years of experience in building design, construction, code enforcement and instruction.



Steve Thomas is an industry expert with 30 years of experience in building code plan review, inspection and administration. He is currently the president of Colorado Code Consulting, LLC. He served as the Building Official for the City of Glendale, Colorado for 18 years. Steve started a building code consulting firm in 1999 to provide building department services for governmental agencies, code consulting services for architectural clients and building code education across the country.



Scott Adams currently serves as the Assistant Fire Chief for the Park City Fire Service District and has a bachelor's degree in Fire Protection Engineering. Chief Adams currently serves on the ICC Fire Service Membership Council, ICC Western Regional Fire Code Action Committee, Technical Committee member on the NFPA-1 Fire Prevention Code, NFPA-101 Life Safety Assembly Occupancy Committee, and NFPA Fire Test Committee. He is ICC certified as a Fire Inspector II and Building Plans Examiner.



Brent Ursenbach, CBO is the Salt Lake County Energy/Mechanical Code Specialist and is an ICC Combination Inspector. He retired from HVAC contracting in 2005 after 33 years working in the field, and has now worked as a code official for the past 10+ years. He currently serves on the Utah Chapter ICC Code Change and Development Committee, Utah Conservation Plan-Buildings Subcommittee, RMGA (Rocky Mountain Gas Association) Board of Directors and is the chairman on the Utah UBCC Mechanical Advisory Committee.

Instructors



Chris Jensen was in his early teens when he began working for his grandfather's electrical contracting company. In 1994 he became a Journeyman electrician and in 2004 received his Master electrician's license. In 2005 he changed hats and became a combination inspector for North Logan City and in 2014 became the Building Official. He has taught the electrical apprenticeship program for Bridgerland Applied Technology College as well as multiple classes for the Utah Chapter of I.A.E.I.



Roger Axel Building Official, City of New Hope, Minnesota; 35 years combined construction and inspection experience, including the Mall of America; Bachelor of Science Degree in Industrial Education; Associate in Applied Science Degree in Building Inspection Technology; Certified Building Official; ICC instructor; instructor for Housing and Building Inspection Institute at UW-Madison College of Engineering; past Chairman, and current Executive Officer of the Association of MN Building Officials.



Doug Smith, MCP, CBO has worked in the building safety and construction industries for more than 17 years. He is an ICC Master Code Professional, Certified Building Official, Combination Commercial Plans Examiner, Combination Inspector, Residential Plans Examiner, Accessibility Inspector/Plans Examiner, Fire I and II Inspector, Fire Plans Examiner, and Energy Plans Examiner. Doug is considered an expert on photovoltaic (PV) code requirements and has taught many classes on the subject. He has also developed a variety of PV template checklists.



George Williams, MCP, CBO has worked in the building safety industry for more than 10 years. He is an ICC Master Code Professional, Certified Building Official, Certified Housing Code Official, Combination Inspector and holds many other UICC certifications. George has been instrumental in the start-up of two building departments including the adoption of codes, implementation of permitting processes, development of policies and procedures, as well as hiring and training of staff.



Todd Snider, PE, SE has more than 10 years of plan review and structural engineering design experience. He has performed plan reviews on thousands of projects including various residential, commercial, mixed-use, industrial and hazardous facilities throughout Utah, Nevada, California, and Washington. Todd is a registered structural engineer and has a Master's degree in Civil Engineering with an emphasis in structural engineering. He is also an ICC certified commercial building, energy, accessibility and mechanical plans examiner.

Course Descriptions – Day 3

2015 IBC: ACCESSIBILITY (By: *Todd Snider*)

This course focuses on the accessibility requirements of the IBC and ICC/ANSI A117.1. It covers requirements for commercial buildings including Use Group R-Occupancies such as hotels and apartment buildings. The course also includes a discussion of accessibility requirements for existing structures undergoing additions, alterations, or change of use. Changes from the 2003 to the 2009 ICC/ANSI A117.1 standards will be highlighted.

2015 IRC: PLAN REVIEW & INSPECTIONS (By: *George Williams*)

This seminar will discuss how to perform residential plan reviews and inspections, ensuring compliance with the 2015 International Residential Code (IRC). The class will include a brief overview common key elements of the IRC, most applicable in the field and during plan review. The seminar includes best practices and methodology for performing both plan reviews and inspections. Topics include: reasonable submittal requirements, concise review comment writing, and synergy between plan reviewers and inspectors. This seminar is perfect for individuals new to the industry, or in the process of transitioning from inspector to plan reviewer.

2014 NEC: SOLAR PV INSTALLATIONS (By: *Doug Smith*)

This course is designed to help provide the essentials for a better understanding of how and where the codes address solar photovoltaic (PV) systems. This course will cover the fundamental code requirements of both residential and commercial PV systems. It is designed to start with the basics of Photovoltaic requirements and lead the attendees step by step into more difficult concepts while simplifying the requirements. This class is designed to aid inspectors, electricians, and design professionals in the plan review process of PV systems.

2015 IBC: FIRE & LIFE SAFETY PRINCIPLES (By: *Jay Woodward*)

This seminar addresses the critical concepts of the 2015 IBC regarding fire and life safety issues. These concepts provide a basis for the correct use of the code in building planning, classification of buildings and occupancies, fire-resistance-rated construction, fire protection systems and means of egress. The content addresses issues that are necessary for many design and plan review decisions.

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 ANNUAL SPRING TRAINING
 UTAH VALLEY CONVENTION CENTER – PROVO, UT
 APRIL 24-26, 2017

MONDAY, APRIL 24	TUESDAY, APRIL 25	WEDNESDAY, APRIL 26
Class #1 2015 IBC Means of Egress <i>Doug Thornburg</i>	Class #5 2015 IEBC Overview <i>Roger Axel</i>	Class #9 2015 IBC - Accessibility <i>Todd Snider</i>
Class #2 2014 NEC Update <i>Chris Jensen</i>	Class #6 2015 IBC – Multi-Family Dwellings <i>Todd Snider</i>	Class #10 2015 IRC – Plan Review & Inspections <i>George Williams</i>
Class #3 ACCA Manual J – Load Calculations <i>Brent Ursenbach</i>	Class #7 ACCA Manual D – Duct Design <i>Brent Ursenbach</i>	Class #11 2014 NEC – Solar PV Installations <i>Doug Smith</i>
Class #4 2015 IBC Building Areas, Fire Areas & Mixed Occupancies <i>Steve Thomas</i>	Class #8 Rapid Inspection Techniques (RIT) for Fire Prevention <i>Scott Adams</i>	Class #12 2015 IBC Fire & Life Safety Principles <i>Jay Woodward</i>

***C.E.U. CERTIFICATES AWARDED FOR ALL CLASSES ***

Persons requiring assistance due to disabilities, please contact John Little at (801) 804-4542 by April 17, 2017 so proper accommodations can be made.

Daily Schedule → Registration: 7:30 A.M.; Classes begin at 8:00 A.M. and conclude at 5:00 P.M.; Lunch: Noon-1:00 P.M.; Breaks: 10:00 A.M. & 3:00 P.M.

Beehive Chapter Registration
Attn: Paul Ashton, Treasurer
56 North State Street
Orem, Utah 84057