

**IN THIS ISSUE**

- Message from the Board ........ p 1
- Inspector Profile ................ p 2
- Calendars ........................................ p 3
- Feature Article ......................... p 4
- Annual Spring Conference Flyer

**APRIL PROGRAM**

**Beehive Chapter Annual Spring Conference**

M-W, April 24-26, 2017
Utah Valley Convention Center
Provo, Utah
(see back of newsletter)

**Next Meeting:**
Coordinated by Beehive Chapter Board
May 17, 2017 Time: 12:00P.M.
Orem City Council Chambers
56 North State Street
Orem, UT 84057

---

**MESSAGE FROM THE BOARD**

Chris Kimball
Past President

As you can see from the photo above, I had a ton of fun this past weekend digging the footing for my new basketball standard. My old one corroded at the base and fell over during a wind storm a couple of months back. My kids kept asking when they were going to have a basketball hoop again and I finally got myself up off the couch.

In all honesty, I have not been spending much time on the couch and I doubt that any of you have either. There is simply too much work to be done. I cannot remember another time in my career when I have been as busy as I am now and it seems that the workload never ends.

On top of the immense workload we all know the current difficulty in finding and hiring experienced and qualified inspectors. How are we supposed to get the work done in the amount of time allotted?

While we might occasionally have the temptation to cut corners on a plan review, to not spend as much time on an inspection as we should, or to send a limited inspector out on a job to inspect something they are not yet qualified to do, we need to remember that we are a part of a very important “profession”.

We are all building safety professionals. As such, we need to ensure that even in these difficult times we are providing...

*(CONTINUED ON NEXT PAGE)*
quality plan reviews and thorough inspections. We also need to ensure that we are providing appropriate training to all of our staff. If we hire limited inspectors I hope that we are not throwing them out in the field to learn on their own but that we are providing them proper training alongside seasoned inspectors.

George Reid is working with the Beehive Chapter Board to develop an inspector training program that will hopefully allow those interested in joining our industry books for studying, a list of seasoned inspectors that they can shadow and gain real-world experience, and other training opportunities.

As a board we hope that you will let us know if you or members of your jurisdiction are willing to serve as mentors in this program and also if you have any new limited inspectors that might benefit by participating in this program. If you do please contact our president, George Reid, at Georger@vineyardtown.com.

This next week is also a great opportunity for staff training regardless of your level of experience. We hope that we will see all of you at our annual conference Monday through Wednesday at the Utah Valley Convention Center in Provo.

Sincerely,

Chris Kimball
Past President

---

Inspector Profile

Cris Johnson
Vineyard City Building Inspector

Hi, my name is Cris Johnson and I am from Spanish Fork, Utah. I grew up in Salem, Utah and moved to Spanish Fork when I built my first home in 2002. I got married to my wife Shelly in 2008 and we have three beautiful daughters: Ava, Adalyn and Gwen. We love anything outdoors and spend most of our summers camping, fishing and riding ATV’s.

I have been in the construction industry for more than twenty years working for Hall Engineering and Construction and also owning my own construction company.

I obtained my contractor’s license in 2007 and have designed and built many homes in Utah County. I have spent the last 6 years before coming to Vineyard working at Geneva Nitrogen as a Control Room Operator, also in Vineyard.

I am very excited to be working at Vineyard City as a Building Inspector.
Reprinted from the ICC-ES website.

High-Efficiency Plumbing Fixtures: Smart for the Environment, Smart for Business.

By: ICC Evaluation Service

More and more, designers, builders and even tenants are specifying resource-efficient plumbing products for new construction and renovations.

Greater water efficiency is an important aspect of sustainability and is relatively easy to implement. Beyond conserving water, additional benefits include reduced water payments, minimized effect on ecosystems, reduced infrastructure costs from rainwater harvest, offsetting treatment and pumping costs, less runoff/overwatering.

There are many fixtures to choose from that help save billions of gallons of water without compromising performance. Based on the Environmental Protection Agency’s (EPA) WaterSense® Program specifications, products must meet certain water efficiency criteria, highlights of which are as follows:

For tank-type toilets:
- Effective flush volume shall not exceed 1.28 gallons
- Solid waste removal must be 350 grams or greater
- Toilet must conform to adjustability and other requirements

For high-efficiency lavatory faucet:
- Lavatory faucets and accessories must conform to applicable code references
- Lavatory faucet accessory flow rate needs to be tested per code references
  - Maximum flow rate cannot exceed 1.5 gallons per minute (gpm), 60 pounds of pressure per square inch (psi) at inlet when water is flowing
  - Minimum flow rate must be 0.8 gpm or greater and 20 psi of pressure at inlet, when water is flowing
  - As long as the lavatory faucet is equipped with an accessory meeting these requirements, the faucet also meets the requirement
- When tested per applicable code reference, the flow rate meets the testing verification protocol.

For flushing urinals:
- No greater than 0.5 gallon of water per flush
- Fixture and flushing device must conform to specified requirements

For showerheads:
- For multi-mode units, no mode can exceed maximum flow rate
- Instructions cannot suggest alternate water-use setting to override maximum flow rate. Conversely, maintenance instructions must direct user to set maximum flow rate

For weather-based irrigation controllers:
- Irrigation adequacy for each zone must be 80 percent or greater
- Excess irrigation cannot exceed ten percent per zone; average excess across all zones cannot exceed five percent

Code-related organizations, such as the International Code Council (ICC), have published provisions devoted to sustainable building practices, many of which focus on water efficiency.

The International Green Construction Code™ (IgCC™) includes comprehensive provisions for water efficiency covering virtually every water conservation related area of construction.

Evaluated Products for Greater Peace of Mind and Efficiency.

The ICC Evaluation Service (ICC-ES) Plumbing, Mechanical and Fuel Gas Listing (PMG) Program is a subsidiary of ICC and is devoted to certifying PMG products. Green plumbing products that are evaluated and listed by ICC-ES PMG make selecting, specifying and approving water-efficient products and solutions faster and easier.

The ICC-ES PMG Listing program is widely accepted and recognized. It gives code officials and inspectors a high level of confidence that a product is code compliant.

For details on the EPA’s WaterSense Program and complete specifications on the above-referenced high-efficiency plumbing products, visit www.epa.gov/watersense. For information on the IgCC™, visit www.iccsafe.org/cs/igcc.

www.icc-es.org/pmg
Beehive Chapter of ICC

Annual Spring Training

April 24-26, 2017

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

Utah Division of Occupational & Professional Licensing (DOPL)

Partial funding by

Approved AIA Courses, earn AIA CEUs
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.

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.jotform.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 beehivechaptretreasurer@gmail.com
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.
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 affecting multiple occupancies and will address specific code provisions. We will discuss the IFC general code provisions, occupancy classification, administrative requirements, emergency planning and preparedness, fire service features, interior finish, decorative materials and furnishings, fire protection systems, and means of egress.
2015 IBC: ACCESSIBILITY (By: Todd Snider)

This course focuses on the accessibility requirements of the IBC and its relationship to the American with Disabilities Act (ADA). The course focuses on Title 24, Part 1 of the IBC, which covers accessibility requirements for buildings. The course also includes a discussion of accessibility requirements for existing structures, including buildings, and the process of transitioning from inspector to plan reviewer.

Instructor:

Todd Snider, P.E., SE

Course Descriptions – Day 3

2015 IBC: 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 of the IRC, most of which will be included in the field and during plan reviews. The course will also explain the importance of accessibility, residential, and mechanical plans, which should be reviewed by the inspector. The course will also include a discussion of how to perform residential plan reviews and inspections. This course is designed to help inspectors understand the requirements for residential and commercial PV systems. It is designed to start with the basics and lead the attendees step by step into more difficult concepts while simplifying the requirements. This course is designed to help inspectors, electricians, and design professionals in the industry.

Instructor:

George Williams, MCP, CBCO

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 fundamentals of both residential and commercial PV systems. It is designed to start with the basics of solar photovoltaic requirements and lead the attendees step by step into more difficult concepts while simplifying the requirements. This class is designed to help inspectors, electricians, and design professionals in the industry.

Instructor:

Doug Smith

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, fire protection systems, and means of egress. The content addresses issues that are necessary for many design and plan review decisions.

Instructor:

Jay Woodward

Course Descriptions – Day 4

2015 IBC: FIRE & LIFE SAFETY PRINCIPLES (By: Todd Snider)

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, fire protection systems, and means of egress. The content addresses issues that are necessary for many design and plan review decisions.

Instructor:

Todd Snider, P.E., SE

Course Descriptions – Day 4

2015 IBC: FIRE & LIFE SAFETY PRINCIPLES (By: Todd Snider)

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, fire protection systems, and means of egress. The content addresses issues that are necessary for many design and plan review decisions.

Instructor:

Todd Snider, P.E., SE

Course Descriptions – Day 4

2015 IBC: FIRE & LIFE SAFETY PRINCIPLES (By: Todd Snider)

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, fire protection systems, and means of egress. The content addresses issues that are necessary for many design and plan review decisions.

Instructor:

Todd Snider, P.E., SE
### BEEHIVE CHAPTER OF ICC ANNUAL SPRING TRAINING

**Utah Valley Convention Center – Provo, UT**

**April 24-26, 2017**

**MONDAY, APRIL 24**

| Class #1 | 2015 IBC Means of Egress | Doug Thornburg |
| Class #2 | 2014 NEC Update | Chris Jensen |
| Class #3 | ACCA Manual J – Load Calculations | Brent Ursenbach |

**TUESDAY, APRIL 25**

| Class #4 | 2015 IBC Building Areas, Fire Areas & Mixed Occupancies | Steve Thomas |
| Class #5 | 2015 IBC Overview | Roger Axel |
| Class #6 | 2015 IBC – Multi-Family Dwellings | Todd Snider |
| Class #7 | ACCA Manual D – Duct Design | Brent Ursenbach |
| Class #8 | Rapid Inspection Techniques (RIT) for Fire Prevention | Scott Adams |

**WEDNESDAY, APRIL 26**

| Class #9 | 2015 IBC - Accessibility | Todd Snider |
| Class #10 | 2015 IBC – Plan Review & Inspections | George Williams |
| Class #11 | 2014 NEC – Solar PV Installations | Doug Smith |
| Class #12 | 2015 IBC Fire & Life Safety Principles | Jay Woodward |

*CEU 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.