

# **Traditional Topics**

## **2015 IBC® Update**

*Presenter: John Gibson*

*International Code Council*

This seminar will identify important changes in the International Building Code® from the 2012 edition to the 2015 edition. Participants will be presented with those changes that will most impact their use of the code as they apply the 2015 IBC®. The learner will receive an overview of the most important code changes.

## **2015 IRC® Update**

*Presenter: Steve Van Note*

*International Code Council*

This seminar will identify important changes in the International Residential Code® from the 2012 edition to the 2015 edition. Participants will be presented with those changes that will most impact their use of the code as they apply the 2015 IRC®. The learner will receive an overview of the most important code changes.

## **2015 IFC® Update**

*Presenter: Kevin Scott*

*KH Scott & Associates*

This course will identify important changes in the International Fire Code® from the 2012 edition to the 2015 edition. Participants will be presented with those changes that will most impact their use of the code as they apply the 2015 IFC®. The learner will receive an overview of the most important code changes.

## **2015 IECC® Update**

*Presenter: Andrew Klein P. E., CEM*

*AS Klein Engineering, PLLC*

This course will identify important changes in the International Energy Conservation Code® from the 2012 edition to the 2015 edition. Participants will be presented with those changes that will most impact their use of the code as they apply the 2015 IECC®. The learner will receive an overview of the most important code changes.

## **ISPSC Highlights**

*Presenter: Steve Barnes  
AquaStar Pool Products*

*Discover the 2015 and 2012 International Swimming Pool and Spa Code™ through this informative multimedia presentation focused on key elements of safety, proper design, and energy efficiency. Intended for new and veteran pool inspectors, you will receive a visual overview of pools and spas before digging into specific historical challenges faced by building inspectors and contractors alike. Learn crucial ISPSC requirements, including compliance with the Federal VGB Act, ADA for pools, and the new energy efficiency standard.*

## **2014 NEC Analysis of Changes**

*Presenter: Keith Lofland  
International Association of Electrical I Inspectors (IAEI)*

This seminar will cover the major changes in the National Electrical Code for the 2014 code cycle. There are four new articles that will be discussed and well as numerous changes and some re-organization for this code cycle.

## **cdpAccess at the Hearings**

*Presenter: Laurie Rich  
International Code Council*

cdpACCESS isn't just for proposal submission – there are a wide variety of services and features that can help you be more productive at the hearings. This seminar will review these features as well as answer any questions you may have about future cycles and upcoming events, including online voting.

## **2014 NEC One-and Two – Family Dwelling Electrical Systems**

*Presenter: Keith Lofland  
International Association of Electrical Inspectors (IAEI)*

This seminar will cover the general requirement and wiring methods as they apply to one- and two-family dwelling electrical systems. This includes branch circuit and feeder calculations, grounding, services, swimming pools, overcurrent protection and devices. It covers design, installation, and

inspection practices according to safety provisions in the National Electrical Code and the electrical requirements of the International Residential Code.

## **Special Inspections- Implementing and Managing IBC Chapter 17- Requirements for Building Departments**

*Presenter: Sam Palmer, Clark County, Nevada*

*Chuck Ramani, International Accreditation Service (IAS)*

Building Departments are again facing the challenges that come along with an improved economy and as a spike in construction-starts spread across the nation. To meet this challenge, building jurisdictions faced with implementing IBC Chapter 17 Special Inspection requirements will benefit from this presentation.

Part One of the presentation covers the special inspection requirements in IBC Chapter 17 including: what is special inspection, why special inspections are needed, the responsibilities of the different parties involved, the different categories of special inspection, and recommendations on steps for setting up a special inspection program.

Part Two of the presentation will show how building departments can use the IAS AC291 accreditation program to manage special inspections in their jurisdictions. This part of the course will cover the processes used to evaluate and verify the competence of special inspection agencies and monitor their performance.

Establishing a formal process to manage special inspections provides evidence that jurisdictions have performed their due diligence to ensure that special inspections are being carried out as required by the IBC. This presentation will show how IAS can help departments implement the program at little or no cost to their jurisdictions. A question and answer session will be offered at the end of the presentation.

## **Best Practices: Lessons Learned from the Building Department Accreditation (BDA) Program**

*Presenter: Chuck Ramani, International Accreditation Service (IAS)*

The ICC Major Jurisdictions Committee and IAS have partnered to bring you unique and innovative practices from IAS-accredited building departments large and small. During this session, IAS will present an overview of building department best practices in permitting, plan review, inspection, customer service, management and administration, and information technology. These best practices have been identified during the on-site evaluations of building departments and catalogued by IAS since the inception of its Building Department Accreditation program.

# **Innovative Topics**

## **Rainwater Harvesting**

*Presenter: Rick Valte*

*City of Santa Monica*

The City of Santa Monica's watershed management program emphasizes rain harvesting for onsite beneficial and sustainable uses, such as active uses, irrigation and indoor flushing, and passive use, infiltration. This program focuses on maximizing the use of local water resources and eliminating the need for imported water resources, which presently the city does use, some 30%. The city's new Sustainable Water Management Plan has a goal to be self-sufficient on local water resources and eliminate imported water supplies by 2020. The heart of this program is the city's Urban Runoff Pollution Mitigation ordinance, which requires post-construction Best Management Practices (BMPs) to harvest rain as rainwater and stormwater. The program also provides various rain harvesting rebates to retrofit one's property to harvest rain.

## **Safeguarding Water Systems Through Backflow Prevention**

*Presenter: Patrick Sylvester*

*University of Southern California*

The USC Foundation has worked with water and health agencies for over seventy year protecting drinking water supplies through cross-connection control. This presentation will discuss the hydraulics of backflow and how backflow prevention assemblies are used to keep drinking water supplies from becoming contaminated through cross-connections.

## **Glued Laminated and Cross Laminated Timbers**

*Presenter: Michelle Kam-Biron*

American Wood Council

Glued laminated timber or glulam has been successfully used in the U.S. for over 75 years in a wide range of commercial buildings and bridges. Many of these structures and bridges remain in service after over 50 years but engineers are generally not familiar with the design and use of glulam. In the past decade a number of innovative glulam structures have been constructed in North America including a 300 foot clear span ice rink at the 2010 Winter Olympics, the new Terminal C at the Raleigh Durham International Airport, the Bullitt Center in Seattle which is the first building in the U.S. to meet the Living Building Challenge criteria and many more. CLT is just being introduced into North America after over 15 years of use in Europe and other countries where CLT framed buildings exceeding 8 stories are being successfully constructed. A number of 5-6 story CLT buildings are currently planned or have been built in

Canada and there is a widespread interest in this technology among U.S. design professionals. CLT will be recognized in the 2015 International Building Code and in the 2015 National Design Specification for Wood Construction and this webinar will introduce design professionals to this exciting new wood engineering technology.

## **Working with Existing Buildings**

*Presenter: Steve Thomas  
Colorado Code Consulting*

This seminar will address the use of the International Existing Building Code. Focuses on the fundamental requirements of IEBC that are placed on an existing structure that undergoes repair work, alteration, renovation activity or construction of an addition, and the effect of a change in the building's occupancy classification. The seminar will discuss the three options available to comply with the IEBC.

## **Introduction to Solar Water Heating for Code Officials**

*Presenter: Shawn Martin  
Solar Rating and Certification Corporation*

This seminar is designed to provide a basic introduction to solar water heaters, which are becoming increasingly popular nationwide. Unlike the more widely-known solar photovoltaic systems, these systems collect solar energy to heat water, without generating electricity. It will address the basic system components, system types, and key inspection issues and relevant provisions in the I-Codes and Solar Rating and Certification Corporation (SRCC) Solar Thermal standards.

## **Code Official Liability: *How to avoid getting to know your lawyer better!***

*Presenter: Judith Dicine  
State of Connecticut, Division of Criminal Justice*

With volumes of detailed regulations directing you to administer and enforce code, how can you possibly *avoid* legal action against you or your department? Or even be *successful* in defending a lawsuit against you? This presentation will offer attendees a newly created "TOP 10" list of things you should know to help avoid legal liability in your code official work. The seminal cases on governmental immunity (when you're safe) and its exceptions (when you're not) will also be reviewed, and updated with recent cases on code official liability from across the United States.

## **Hoarding: What's Code got to do with it?**

*Presenter: Judith Dicine*

*State of Connecticut, Division of Criminal Justice*

Hoarding is a mental health disorder which experts estimate affects 2-5% of the population in all communities. Fatalities and severe injuries from hoarding related incidents are growing in numbers; correlated to increased reporting and education regarding the various dangerous conditions caused by hoarding. In severe hoarding cases, these conditions routinely include storage of excessive combustibles with a heavy fuel load, which may be especially liable to fire, structural collapse, impeded or blocked required egress or emergency ingress, and pose life threatening hazards to the person with the hoarding disorder, any nearby occupants, neighbors and first responders. How do fire safety, health and building codes apply to these cases? Under what circumstances should a code agency conduct an inspection of the property? What about the owner or occupant's rights of property and privacy in these matters? This presentation will give a current look at an old problem; while applying general law for legal response to hoarding complaints.

## **The Impact on Building Safety in Today's Fires**

*Presenter: Sean DeCrane*

*Cleveland, Ohio, Division of Fire*

Today's modern fire environment is a changing dynamic. We have seen a saturation within the market place of new products containing fuel loads with increased heat release rates. This changing environment exposes occupants, fire fighters and the building's structural elements to greater extremes in the event of a fire.

The timeframe for initiating fireground operations has also changed. Prior to the 21st century, traditional response times permitted fire fighters to arrive prior to rapid expansion of a fire is now reduced to situations where fire fighters are arriving when conditions are ripe for extreme fire behavior. These changes have implications for occupants, responding fire fighters and how we construct and protect today's built environment. This class will examine:

- Modern fire dynamics,
- The growth rate of today's fires
- Fire's impacts on occupant safety
- Fire fighter safety in today's buildings
- Impacts on structural safety

In addition to the analysis of today's fire conditions , we will also review recent research projects as they apply to the modern fire environment, recent code changes and their impact to fire fighter safety and potential avenues to improved occupant safety.

## **Safety Glazing**

*Presenter: Steve Van Note  
International Code Council*

This seminar examines the safety glazing requirements of the 2015 editions of the *International Residential Code (IRC)* and the *International Building Code (IBC)*, and illustrates the application of the provisions in various scenarios. Coverage includes testing and labeling requirements, and examples of approved materials. The program identifies hazardous locations related to glazing in residential and commercial buildings, explores design choices in satisfying the code requirements, and analyzes examples of typical glazing installations for compliance with the safety glazing provisions.

## **CALBO Topics**

### **Solar Photovoltaic Systems**

*Presenter: Bill Brooks  
Brooks Engineering*

This course aids counter technicians, plan checkers, and field inspectors to better understand the intent and changes to the 2013 California Electrical Code Article 690 - Solar Photovoltaic Systems. Discussions will include at least three things you should and should not see on a set of plans or in the field. The course will also include new labeling requirements and illustrations to clarify the numerous changes including arc fault detection. The class will be interactive with questions encouraged. Details will also be provided on the new requirements of AB2188 and straightforward ways to understand and comply with these new requirements. The new standard electrical plans, with both the comprehensive and simplified versions, will be reviewed. With the ever-changing technology and multitude of new solar products, having a better understanding of the intent of the code and the 2013 changes is a must for those involved with the fastest growing segment of the electrical industry.

# **Local Interest**

## **Developing a New Civic Center in Long Beach**

*Presenter: David Khorram and Panelists*

*City of Long Beach, Development Services*

The Long Beach City Council approved a proposal to construct a new \$350 million civic center. This is the largest proposed financing for public-private partnership in California. The new Civic Center corridor will include a new city hall, port of Long Beach headquarters, public library, two mid-rise residential buildings, a mixed-use high-rise and a redesign of historic Lincoln Park. The governmental buildings will break ground in 2016, with an estimated completion date of 2019. An esteemed team of professionals will present the project. The presentation will consist of project details, Code challenges, and an actual model of the proposed civic center will be on display.

# **Special Topics**

## **Hydrogen Vehicles and Fuel Cells**

*Presenters: Nick Barilo- Pacific Northwest National Laboratory*

*Carl Rivkin- National Renewable Energy Laboratory*

Hydrogen and Fuel Cells are HERE... Are you ready? The Hydrogen Safety Panel and National Renewable Energy Laboratory will conduct an educational session on hydrogen and fuel cell technologies. The classroom portion of the session will include an overview of the technology and key safety issues along with how the current codes address them. The session will also include a site tour to two facilities - a hydrogen vehicle fueling station and a stationary fuel cell installation. The site tour is limited to 50 participants. There will be a sign up sheet in the classroom and the first 50 participants will be invited to attend. Transportation is included.

## **2015 NEHRP Recommended Seismic Provisions – An Overview**

*Presenter: John Hooper*

*FEMA*

Seismic building code development in the U.S. starts in the Building Seismic Safety Council's Provision Update Committee (PUC), which updates the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures on a five year cycle. Most significant PUC code change proposals are adopted by ASCE-7, Minimum Design Loads for Buildings and Other Structures, which in turn is the national standard adopted by the International Building Code (IBC). The 2015 edition of the Provisions

will provide updates that will be considered for adoption into ASCE 7-16, which will be adopted into the 2018 IBC. Important changes to future U.S. seismic codes that will appear in the 2015 NEHRP Provisions will be described in this presentation. The Federal Emergency Management Agency (FEMA) provides funding to BSSC for this activity

## **ICC Journey to Leadership**

*Presenters: ICC Past Presiding Officers chaired by Steve Shapiro*

If you aspire to be a leader in the code profession, this session is for you. More than 80 percent of the Code Officials of the existing Code professional workforce is planning on retiring in the next 15 years, with more than 30 percent in the next 5 years. It is imperative that future leaders of the Code profession are developed. Being promoted to a higher level of responsibility in the Code profession, means you must move beyond technical expertise and rely on and utilize leadership skills.

This session will allow you to begin the thought process for developing your personal “leadership journey” for growth in the Code profession.

You will have the opportunity to hear from and interact with leaders in this industry. These leaders will share their personal leadership journey, including what made them successful and lessons learned.