

# Pre-Conference Tour

## Sunday, October 21, 2018

---

### **Richmond, VA Historical Building Tour: 8 am – 3 pm**

**Guide Name:** John Gibson

This tour will consist of a variety of guided tours to several historical buildings in Richmond, VA. The historical facts of each building as well as the Building Code and construction challenges will be discussed. Tour speakers will include staff from each location as well as a member of the Richmond Building Department.

**John Marshall House.** The house was built in 1790 and was home to the Great Chief Justice of the United States for 45 years. The house has been through two major renovations and is an outstanding example of Federal architecture and retains most of its original features.

**Hippodrome Theatre.** This Theatre was built in 1914 and is located an area of Richmond that was known as “Harlem of the South”. Billie Holiday, Louis Armstrong and other notable entertainers once performed at the “Hipp”. The theatre has been beautifully restored with meticulous attention to detail.

**Taylor Mansion.** This home was built in 1907 by architect John Lankford and is adjacent to the Hippodrome Theatre. It is been renovated and is now a restaurant, the Speakeasy Grill, specializing in southern cuisine. Brunch is included as a part of the tour.

**Virginia Capital Building.** The Virginia Capital Building was designed by Thomas Jefferson with foundations dating back to 1785. It is the oldest continually used Capitol in the United States. A recent renovation has been completed including an historic restoration and addition. An Architectural Historian discuss the project.

**Capital Square.** A series of rehabilitation and restoration projects have taken place in structures in the Capitol Square. The tour will include visiting the underground visitor center and viewing a partial demolition of a building.

# Conference Education Program

## Monday, October 22, 2018

---

### **Best Practices Collaboration Between Architects and Building Officials**

**Presenter Name:** M. Dwayne Garriss, Jared Zurn, AIA, NCARB; Greg Erny

**Description:** Have you ever wondered how you could work better with the building designer and create a truly productive working relationship? This panel discussion will engage the audience in activities as leaders in the code and architectural regulation world discuss best practices related to achieving high-quality design that conforms to both national and local requirements. Learn techniques to connect requirements to design intent and help the architect see the value of the requirements as more than just a checklist.

---

### **Residential Installations Conforming with Part 8 of the 2018 IRC**

**Presenter Name:** Keith Loftland

**Description:** This comprehensive seminar explains in clear, concise language, pictures and graphics the installation, design, and inspections of electrical systems in new and existing one- and two-family dwellings. The seminar includes the electrical requirements of both the National Electrical Code and the International Residential Code (IRC). Inspectors, contractors, electricians, and students will find this seminar particularly helpful. This program will assist attendees in making more accurate, thorough, and safer installations and inspections of one- and two-family dwellings dealing specifically with the electrical requirements of Chapters 34 through 42 of the IRC.

---

### **Residential Building Inspection: A Step by Step Guide**

**Presenter Name:** Mike Brinkman

**Description:** Residential Building Inspection: A Step-by-Step Guide is a “how to” resource developed by an expert in this field with many years of experience in project management, inspections and training those entering the field. The book will benefit a variety of professionals such as building department personnel, builders, contractors, project managers, home owners and others involved in residential building construction.

---

### **2018 IBC Essentials: Building Planning**

**Presenter Name:** John Gibson

**Description:** This seminar focuses on the Building Planning concepts of the 2018 International Building Code® (IBC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

### **2018 IRC Essentials: Design criteria, foundations, framing and finishes**

**Presenter Name:** Steve Van Note

**Description:** This seminar focuses on the Building Planning concepts of the 2018 International Residential Code® (IRC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

## 2018 IFC Essentials: General Precautions Against Fire (Chapters 3,4,5,6)

**Presenter Name:** Terrell Stripling

**Description:** This seminar focuses on the concepts in Chapters 3-6 of the 2018 International Fire Code® (IFC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

## 2018 IEBC Essentials: History, Compliance & Essentials

**Presenter Name:** Bill Koffel

**Description:** This seminar focuses on the history of rehab, compliance alternatives as well as the essentials of the 2018 International Existing Building Code® (IEBC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

## Building High Performance Organizations, Private Sector Lessons for Public Sector Success

**Presenter Name:** Daran Wastchak

**Description:** The code industry is dominated by individuals working in the public sector. However, more and more small private businesses are stepping up to offer their services as contractors to local government agencies or directly to home builders and developers. To be successful in the private sector, small businesses must think like big businesses including how they plan ahead in the short and long term, select and hire employees, market themselves to potential (and existing) clients, and motivate their team for individual and company success. This presentation will share several of the most innovative and successful strategies being implemented today by entrepreneurs across many business sectors to maximize profitability as well as the efficient use of time and resources to create “High Performance” organizations.

---

## Swimming Pool Requirements based on Chapter 42 of the 2018 IRC

**Presenter Name:** Keith Loftland

**Description:** This seminar will lead the participants down the sometime complex but necessary winding road to electrical safety. The installations covered by this seminar can be indoors or outdoors, permanent or storable, and all with their own distinctive electrical requirements. Topics discussed will involve GFCI protection techniques, wiring methods, equipment use, grounding and bonding, and the equipotential grounding system.

---

## Building Heights and Areas: Using Software to Ease Building Code Analysis

**Presenter Name:** Ara Sargsyan

**Description:** This session will focus on the “Check Height and Area” software that reviews and analyzes building height and area compliance with the 2018 International Building Code (IBC), for buildings up to six stories, with up to four occupancy groups at each level. This user-friendly application is created for design professionals and building officials to ease building code analysis. Step-by-step instructions will be provided and common issues related to height and area limitations will be illustrated with examples of actual mixed occupancy group, multi-story buildings. The 2018 IBC update on Building Height and Area provisions will be discussed.

# Conference Education Program

## Tuesday, October 23, 2018

---

### Disaster Planning in the International Codes

**Presenter Name:** Kimberly Paarlberg

**Description:** Communities that prepare for disasters are safer places for people to live. By building in resiliency, disaster recovery is quicker and less costly. The ICC has many ways to help your community prepare. This presentation will provide an overview of the provisions currently in the International Codes including earthquake, wildfire, snow storm, floods, high winds, tornado/hurricanes and even tsunamis. Learn how these provisions are regional based on specific needs and what will work for your community.

---

### Significant Changes to the 2017 ICC/A117.1

**Presenter Name:** Kimberly Paarlberg

**Description:** October 2016 marked a watershed moment in the evolution of accessibility design principles. The membership of the ICC A117.1 voted to make dramatic and sweeping changes to the fundamental building blocks informing all accessible design. The new standard's provisions will have a domino effect on other design basics, square footages, bathrooms, kitchens, corridors, retail spaces, and subsequent costs of construction. New to the 2017 edition are increases to the clear floor space and turning spaces in response to technical data regarding the space needed by persons using scooters or some types of motorized wheelchairs; exterior routes, curb cuts, blended transitions, passenger drop offs and parking requirements coordinated with the Public Rights of Way Guidelines; electric car charging stations; accessible windows; accessible routes through parking lots; sign language interpreters stations; enhanced acoustics for classrooms; charging stations for electric wheelchairs and scooters; and gaming machines and tables.

---

### 2018 IBC Essentials: Means of Egress & Fire Protection

**Presenter Name:** John Gibson

**Description:** This seminar focuses on the Building Planning concepts of the 2018 International Building Code® (IBC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

### Legal Aspects of Code Enforcement and Administration

**Presenter Name:** Judith Dicine

**Description:** This educational session goes to the core of what safety code officials do in service of our communities daily - which is to keep the public safe through active code enforcement and administration. But, what about the U.S. Constitution and an individual's rights to privacy and property? And what happens when an individual doesn't comply with an order to correct a violation? All actions by governmental officials must have a lawful basis. The public interest is only rightly served when both critical safeguards are met: constitutionality and code.

---

---

## **2018 IFC Essentials: Fire & Life Safety (Chapters 7,8,9,10)**

**Presenter Name:** Terrell Stripling

**Description:** This seminar focuses on the concepts in Chapters 7-10 of the 2018 International Fire Code® (IFC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

## **The ICC/NCSEA Disaster Response Program**

**Presenter Name:** William Bracken, Doug Douglass

**Description:** The ICC/NCSEA (National Council of Structural Engineers Associations) have joined together to develop a national response platform that will build and maintain a database of volunteers that can be called upon in the post-disaster environment to help with Damage/Safety Assessments (Placarding) and Building Department recovery efforts. This presentation will introduce and discuss the ICC/NCSEA program along with other resources available via Mutual Aid agreement or Federal Disaster Assistance.

With input and experiences provided by Building Officials assisted during Hurricanes Harvey, Irma and Maria this presentation will also share specific success stories from the 2017 Hurricane Season.

---

## **2018 IRC Essentials: Fire and life safety, energy conservation, mechanical, plumbing and electrical provisions**

**Presenter Name:** Steve Van Note

**Description:** This seminar focuses on the Building Planning concepts of the 2018 International Residential Code® (IRC®). This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

## **2018 IEBC Essentials: Key Concepts of the Work Area Method**

**Presenter Name:** Bill Koffel

**Description:** This seminar focuses on concepts of the 2018 International Existing Building Code® (IEBC®). Key concepts of the work area method will be addressed. This seminar will provide a basis for the correct utilization of the code and help to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will also help the code user to correctly locate code requirements.

---

---

## What to Look for Basic Site and Commercial Plan Review

**Presenter Name:** Scott Adams

**Description:** This course provide a basic step-by-step approach to assist the Fire Code Official with performing a site plan review for new and existing projects, along with the basic items the Fire Code Official should look for when performing a fire and life safety plan review for a moderate-sized commercial project. This class will address the following portions of the review: (1) administration, (2) occupancy classification, (3) fire & life safety (fire protection, exiting, etc.), (4) fire department access and water supply requirements (fire flow). We will illustrate items to look for when performing a plan review. The class will conclude with a question & answer session.

---

## Lessons Learned 2017 Hurricanes: A Technical Evaluation of Building Performance & the Impact of Code Adoption and enforcement

**Presenter Name:** Daniel Bass, Manny Perotin, Stuart Adams

**Description:** Among the activities that the Federal Emergency Management Agency (FEMA) carries out in response to natural disasters caused by events such as floods and hurricanes is the deployment of Mitigation Assessment Teams (MATs). These teams are formed by and operate under the direction of the Risk Management Directorate's, Building Science Branch which is located at FEMA Headquarters (HQ). While the MAT program is managed from FEMA HQ, Regional Office, Joint Field Offices, and Regional staff play a key role in each MAT. Members of a MAT generally include representatives from FEMA Headquarters and the FEMA Regional Offices (ROs); representatives from state and local governments; consultants who are experts in specific technical fields such as structural engineering, building design and construction, land use and floodplain management, and building codes; and other technical, administrative, and general support personnel.

A MAT conducts field assessments and technical evaluations of the performance of buildings subjected to forces generated by the event. The primary purpose of the MAT's technical assessments is to identify design practices, construction methods, and building materials that either failed under the forces generated by the event or were successful in resisting such forces. In addition, the MAT will often look at land use management and planning practices as well natural hazard identification and risk assessment. This is done to learn whether actions, other than those involved in designing and constructing buildings, were successful in minimizing damages from natural hazards. Most recently, FEMA sent teams to Texas, Florida, Puerto Rico, and the US Virgin Islands

---

## Fire Alarm Installation Seminar

**Presenter Name:** Michael L. Savage, LLC

**Description:** This seminar will focus on the installation practices of Fire Alarm Systems in accordance with Article 760 of the National Electric Code as well as NFPA 72. Included will be the wire types and materials, monitoring, etc. This seminar is perfect for Fire Marshals, Inspectors, Plan Reviewers, Contractors and Electricians.

---

## Best Practices: Lessons Learned from Building Departments

**Presenter Name:** Chuck Ramani, Samuel Palmer

**Description:** The ICC Major Jurisdictions Committee and IAS have partnered to bring forward 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. Many of 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.

---

## 7 C's for Inspectors

**Presenter Name:** Johnny Goetz, Ed Lisinski, Dan Dockery

**Description:** This class was written as a resource for inspectors to respond to new public attitudes toward Regulations and Regulators and responses to elected officials acting on behalf of constituents. By the end of this class, the Code Enforcement Official will identify with approaches that are not taught as part of getting your certifications – referred to as “soft skills”. This includes tools to defuse problematic situations; a background to the General Statutes that will make policies and appeals easier to understand and explain; and identify programs such as “Raise the Profile” to improve impression of the inspector.

---

## The New Code Official: A Safety 2.0 Emerging Leader's Perspective

**Presenter Name:** Jesse De Anda and John Hudgison

**Description:** Code officials in the next two decades will find an adaptive business model that merges the American work environment with continuing technological advancements. Join us to understand perspectives on how future generations will accomplish their work to improve recruitment, retention and development of the emerging workforce by adapting evolving technologies and generational effectiveness.

---

## Best Practices: IAS Special Inspections

**Presenter Name:** Chuck Ramani, Samuel Palmer

**Description:** 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.

---

## IECC Simplified Residential

**Presenter Name:** Michelle Britt

**Description:** This 90 minute session will provide an overview of the IECC, from navigation of the code to application and enforcement. You will also learn from best practices by jurisdictions who have adopted the code; what are strategies that communities have used to implement the IECC and how do they improve code compliance? This session will provide a simplified approach to the energy code that everyone will find beneficial.

## The Importance of “Grit” in Leadership

**Presenter Name:** Ivan Joseph

**Description:** High performing teams have similar attributes. Using examples of business people and his own coaching experience, NAIA National Coach of the Year Ivan Joseph shares four key tools for team excellence. Grit is the ability to persevere despite setbacks to accomplish a task and is an attribute of many successful people. In fact, grit is a higher predictor of success than many other factors including intelligence, hard work—over 112 other factors measured. Grit is an attribute we can develop in ourselves, and coach for in others. Ivan shares how to develop grit. Most importantly we should praise the effort, the diligent work—that is what builds grit. Ivan also discusses the importance of focusing on goals. Goals are a part of focus, yet we get caught up in the distractions. Learning to maintain focus in the face of distractions leads to higher performance. Leadership and teamwork is all about relationships. High performing teams are more cohesive and value relationships. Ivan Joseph shares examples of how to build community, the importance of touch, and exercises he uses. Great leaders must be adept at identifying and putting the right person with the needed skillset in the right role. And, the role must be enticing for the person.

---

## How Your Community Can Save Money While Saving the World

**Presenter Name:** Hope Medina

**Description:** The Sustainability Membership Council’s presentation will quantify the benefits of adopting the International Energy Code, International green Construction Code, and National Green Building Standard. This presentation will demonstrate how Federal agencies and programs such as FEMA and USDA’s Energy Efficiency Loans and Grants program are utilizing the energy and sustainability codes for Federal benefits and funding. Attendees will learn how different approaches can save money while demonstrating compliance with the energy and sustainability codes. The presentation will explain why this should be important to your community and how this importance has been recognized by the world. This presentation will demonstrate what communities in other countries are doing with energy and green building codes to save the world. Attendees will be able to compare how their community’s performance with other communities around the world. This presentation will examine what future constituents of your community will expect to find in a modern community. Learn how to get your community the benefits it deserves.

---

## Transition to Digital: How Technology will Enable the Jurisdiction of the Future

**Presenter Name:** Jeff Wight, Dan Janousek

**Description:** Technology will enable the jurisdiction of the future. Join ICC’s technical product team and General Code to discuss the transition to digital code access and learn how technology opens up new possibilities for efficiency and collaboration. In this session, you’ll hear how General Code has helped over 2,500 local governments overcome challenges and gain efficiencies in the transition to digital access to their local Codes. Participants will learn how ICC’s online Codes platform is revolutionizing code access for building officials, constituents, and design professionals. The presentation will culminate with a case study about how the City of O’Fallon has embraced digital and has taken full advantage of the ICC Code platform to make a custom local building Code, complete with all local amendments, available online for the first time.

---



## Let's Walk a Project and Review Firestop

**Presenter Name:** Sharron Halpert

**Description:** Participants will look at things they already know with a whole new light and be able to actively put the information to use on their next jobsite visit. They will learn UL nomenclature and how to use it on a jobsite to determine level of expertise of installers or special inspectors. The class participants will also review a mock firestop submittal and walk a mock jobsite together and discuss the various concerns they find. Participants will also identify how the preliminary walk will set the groundwork for what they can expect from the firestop installer.

---

## New High Performance Fire Resistance Coating Applications

**Presenter Name:** Chris Birchfield

**Description:** This course provides an overview of the latest fire retardant and intumescent coatings and application for structural steel, lightweight truss systems, wood, drywall, interior furnishings, fabrics, plastics and fiberglass to meet building code requirements.

---

## 2018 NDS Changes

**Presenter Name:** Buddy Showalter

**Description:** This presentation will provide an overview of the significant changes for wood design per AWC's National Design Specification (NDS) for Wood Construction. The 2018 NDS is referenced in the 2018 International Building Code and 2018 International Residential Code and used to design wood structures worldwide. The 2018 NDS references ASCE/SEI Standard 7-16 Minimum Design Loads and Associated Criteria for Buildings and Other Structures which includes increased wind loads. Participants will learn about changes in the 2018 NDS to address increased wind loads and gain an overview of the standard.

---

## Fire and Smoke Protection Features & the NEW 2018 International Fire Code 701 Requirements

**Presenter Name:** Bill McHugh

**Description:** During the International Fire Code (IFC) development process, many worked together to make the Fire and Smoke Protection Features Chapter of the 2018 edition of the IFC for fire and life safety. The result was that separate sections were developed for each fire-resistance and construction designed to resist the passage of smoke. They bring the appropriate attention to the building owner through the IFC that during new construction, fire and smoke assembly documentation needs to be communicated to the building owner and manager. This documentation demand in the IFC results in documentation needed to meet systems selection, installation, special inspection and maintenance requirements. Every part of the building life cycle is touched by these requirements in 701 of the IFC.

---

---

---

## Foam Plastic Insulation – Exterior Wall Fire Safety

**Presenter Name:** Justin Koscher, Lorraine Ross, Jesse Beitel

**Description:** When government and other entities don't adopt or designers don't use the latest versions of codes and standards, they lose the benefit of the latest technology, research and collective wisdom related to fire, electrical and life safety"

-NFPA President and CEO Jim Pauley said after the Grenfell Tower fire

The tragic June 2017 fire at the Grenfell Tower in London has led British authorities to conduct a comprehensive review of building fire regulations intended to provide answers to how the fire occurred and what should be done to prevent a future tragedy. The Grenfell Tower fire has communities outside of England asking, could this type of fire happen here? The fire has left others wondering whether the goals of building fire safety and energy efficiency are compatible.

For communities in the United States, the answers can be found in the system of model building codes and consensus standards that reflect current best practices for the construction industries. However, the best codes and standards are only paper unless we act to adopt, understand, and enforce them.

This session will bring together experts for a panel presentation and an interactive audience dialogue on the resources that are available to help ensure buildings here in the U.S. are built and renovated to greatly reduce fire incidents and losses when fires do occur. The experts will highlight specifically how U.S. codes and standards create a system approach to controlling the use of foam plastic insulation products in commercial buildings of varying heights. The panel will provide examples of approved assemblies in a variety of exterior walls for different construction configurations. The presentations also will focus on how fire safety can be maintained throughout the design process and construction phases. Finally, the audience dialogue will be structured to create a conversation on how we can leverage the current system of codes and standards to encourage adoption, education, and enforcement.

---

## UL Resources -Navigating Fire Resistant Designs

**Presenter Name:** Jon Roberts

**Description:** This presentation will provide code officials with a more thorough understanding of the many different tested fire resistant designs they may encounter in their daily operations. Throughout the presentation we will expand the knowledge of the audience by providing a glimpse into the little understood world of fire testing, what it all means to a code official and how to quickly find what they need to do their job successfully.

---

## Why, When, What and Where Lightning Protection Required

**Presenter Name:** Robert Torbin

**Description:** This session will discuss the uncertainties and inconsistencies in current model codes and product standards regarding the need for lightning protection. Present standard practices for lightning protection for the residential market; describe developing changes to the model codes based on new technologies and installation practices; and project future code changes to fully address.

---

## So, You Think You Know Grease Duct Wrap?

**Presenter Name:** Sharron Halpert

**Description:** This is a hands-on class where we install grease duct wrap on a 6 ft length of duct. We talk about how the material is tested, how it is installed in simple installations such as our mock up as well as more complex installations.

---

## Virginia Maintenance Code

**Presenter Name:** Sean Farrell

**Description:** This session will cover the history of the Virginia Maintenance Code, Virginia Legislative authority, administration, and technical provisions of the code. This session will conclude with Matt Paxton discussing challenges associated with this code.

---

## Ever-Changing Structural Provisions of Our Building Codes

**Presenter Name:** SK Ghosh

**Description:** The structural provisions of the *International Building Code* (IBC) are largely by reference to a loading standard (ASCE 7) and a number of material standards, each of which keeps on changing every three to six years. Particularly when a new edition of ASCE 7 is adopted by the IBC, major changes in structural provisions can result. The 2012 and 2015 IBC adopted ASCE 7-10; the 2018 IBC adopts ASCE 7-16. Just this one update has resulted in very significant changes in the snow design, wind design, and seismic design provisions of the 2018 IBC. Attendees will be given an overall idea of these changes and their impact. The last part of the presentation will be directed to indicating how S. K. Ghosh Associates LLC (SKGA), now a member of the ICC Family of Companies, tries to help the structural design and plan check communities deal with these frequent and substantive code changes.

---

## Approving and Selecting Building Products with Confidence - What to Look for in Evaluation Reports

**Presenter Name:** William Gould, Michael Temesvary

**Description:** This session will provide an overview on ICC Evaluation Services, LLC (ICC-ES) and the role that we serve for the ICC membership, product manufacturers and the public. ICC-ES is the premier building product evaluation agency in the United States. Our evaluation reports provide building code officials and inspectors with critical information on new and innovative building products and how they comply with the I-codes and referenced standard requirements.

---

# PMG Track:

## Tuesday, October 23, 2018

---

### Layers of Protection: Based on the 2018 ISPSC

**Presenter Name:** Carvin DiGiovanni

**Description:** Description: This seminar introduces participants to the ISPSC highlighting the safety and building aspects of the code as they relate to protecting the pool and spa user. The presentation will include information on barriers (layers of protection), suction entrapment avoidance circulation systems and energy.

**Target Audience:** Building Officials, Architects, Building Inspectors, Pool and Spa Contractors, Engineers, Plans Examiners, Plumbing Inspectors

---

### 2018 IPC® Significant Changes

**Presenter Name:** Robert Braun

**Description:** This seminar introduces participants to the major changes from the 2015 IPC to the 2018 IPC. Participants will discuss the changes, reasons for the changes, and take part in knowledge review activities. Information presented will allow participants to apply these new code requirements to design, plan review, and/or inspection.

**Target Audience:** Building Officials, Architects, Building Inspectors, Contractors, Engineers, Plans Examiners, Plumbing Inspectors

---

### 2018 IMC, IFGC® Significant Changes

**Presenter Name:** Jim Tinner

**Description:** This seminar introduces participants to the major changes from the 2015 IMC and IFGC to the 2018 IMC and IFGC. Participants will discuss the changes, reasons for the changes, and take part in knowledge review activities. Information presented will allow participants to apply these new code requirements to design, plan review, and/or inspection.

**Target Audience:** Building Officials, Architects, Building Inspectors, Contractors, Engineers, Plans Examiners, Plumbing Inspectors

---

### Residential HVAC Design Process

**Presenter Name:** John Sedine

**Description:** Description: This seminar introduces participants to the Air Conditioning Contractors of America (ACCA) HVAC residential design process. It will cover ACCA's ANSI Manuals J, D, and S and referenced ICC code sections that require calculations to be done for new and existing homes. Participants will discuss the major aspects of heat gain / heat loss, duct design, proper selection of HVAC equipment, and the attributes of both good and bad design. This seminar will also provide additional resources and checklists for contractors and inspectors to help with the design and inspection process.

**Target Audience:** Building Officials, Architects, Building Inspectors, Contractors, Engineers, Plans Examiners, HVAC Inspectors

---

# Conference Education Program Tours: Tuesday, October 23, 2018

---

## **Dominion Energy Center Tour**

**Guide Name:** ICC Staff

**Description:** The cornerstone of the Dominion Energy Center is the fully renovated, historic Carpenter Theatre. This grand theater has nearly 1,800 comfortable, spacious seats, state-of-the-art acoustics and brilliant lighting, including new fiber optics that enhances the ceiling's sparkling stars. As the Carpenter Theatre celebrates 84 years of bringing entertainment to Richmond, RPAA is excited that the space has been restored for new audiences to enjoy.

Dolly Vogt (Manager) & Steve Sweet (Facility/Technical Director) – both worked on the Dominion Energy Center (formerly Richmond Center Stage) construction project together will be on the tour. A representative from the Richmond Building Department will also join the tour.

---

## **Agecroft Hall Building Tour**

**Guide Name:** ICC Staff

**Description:** This tour will begin with 9-minute introductory film that tells the fascinating story of how Agecroft Hall came to be located in Richmond, Virginia. The focus of the guided tour is the 16th and 17th century history of the house and the material culture and lifestyle of its inhabitants. A presentation and discussion with the Curator of Collections to talk to the entire group about the building and its construction will be held. A representative from the Richmond Building Department will also join the tour.

---

## **Institute for Contemporary Art at Virginia Commonwealth University Architectural and LEED Building Tour**

**Guide Name:** ICC Staff

**Description:** The Institute for Contemporary Art at Virginia Commonwealth University opened its doors in April 2018. This newly constructed \$41 million building was designed Steve Holl Architects, Named by *Time* magazine as America's Best Architect. This new center is an iconic new landmark for the City of Richmond and Virginia Commonwealth University. To achieve LEED certification, great care has been paid to incorporate environmentally friendly systems and resources whenever possible, including the use of geothermal wells for heating and cooling the building, three green roofs to absorb stormwater and maximize insulation, and glass walls designed to exhaust heat in the summer and harness it in the winter. All of this will ensure lower operating costs, less environmental impact and a healthier environment for those using the facility.

---

## **American Civil War Museum: Historic Site & Newly Constructed Buildings "Behind the Scenes" Tour**

**Guide Name:** ICC Staff

**Description:** The American Civil War Museum is a multi-site museum located in Richmond. This tour will begin with a guided tour at Historic Tredegar includes interpretation around their 9-acre site and through several historic buildings. The tour will include a discussion of these buildings as well as other historical facts. The second portion of the tour will include a tour of the newly constructed museum building. This new museum building will not yet be open to the public. Building features will be discussed from a building code perspective. A member of the Richmond Building Department will join the tour.

---