

2022

MISSOURI ASSOCIATION OF BUILDING & FIRE OFFICIALS EDUCATIONAL CONFERENCE

NOVEMBER 9-11, 2022



FROM THE PRESIDENT



Thank you for considering the third MABFO Educational Conference!

All the Missouri ICC Chapters have joined together for yet another historic event this November at the Lake of the Ozarks. Similar to our previous MEGA Conference, our primary purpose of this exciting event is to educate building officials, fire officials, architects, engineers, and other code professionals while raising money for the upcoming ICC Annual Meeting to be held in St. Louis, Missouri in October 2023. We realize this will be a BIG undertaking as well as an honor to host this nation-wide event in Missouri yet again.

Your participation in this year's MEGA conference is paramount to the hosting of the 2023 ICC Meeting and we hope you will join us for this important educational conference. We understand that everyone is affected by budget constraints, and therefore the committee has been working hard to provide extra value at this conference. This event promotes 2 ½ Days of training by ICC Instructors and Industry Experts along with a Vendor Expo, Prize Opportunities, and – most importantly – the opportunity to network with your peers such as building officials, fire officials, architects, engineers, and other code professionals.

I hope you give serious consideration to attending this educational event.

Ed Berkel

President | Missouri Association of Building & Fire Officials

REGISTRATION

NAME _____

AFFILIATION _____

TELEPHONE _____ EMAIL _____

ADDRESS _____

CITY, STATE ZIP CODE _____

MEAL RESTRICTIONS _____

COMPANION'S NAME _____

ADDITIONAL GUEST _____

Early Bird Registration \$275.00
 Deadline is October 7, 2022
 Includes seminars, breakfast & lunch

Wednesday Session Number _____

Thursday Session Number _____

Friday Session Number _____

Full Registration \$325.00
 Includes seminars, breakfast & lunch

Wednesday Session Number _____

Thursday Session Number _____

Friday Session Number _____

Single Day Registration \$150.00
 Includes seminars, breakfast & lunch

Wednesday/Thursday/Friday
 Session Number _____

Companion Fee \$115.00
 Includes breakfast & lunch

*Fee increases to \$125 after October 7, 2022.

Additional Guest \$115.00
 Includes breakfast & lunch

*Fee increases to \$125 after October 7, 2022.

Total Conference Fee
 Lodging is not included in conference registration fees.

PLEASE NOTE BELOW WHICH CHAPTER YOU ARE A MEMBER OF

- Fire Marshals Association of Missouri
- Jefferson County Fire Marshal Association
Metropolitan Fire Marshals Association
- Missouri Association of Building Code Administrators
- Missouri Association of Building Officials & Inspectors
- Missouri Association of Code Enforcement
- St Louis Professional Chapter of ICC
- Southwest Missouri Code Officials, Inc.
- None of the above

REFUNDS WILL BE GIVEN UNTIL NOVEMBER 4, 2022

MAKE CHECKS PAYABLE TO MABFO

IF PAYING BY CREDIT CARD, PLEASE PROVIDE THE FOLLOWING:

- Type of card
- Card number
- Expiration date
- Security code
- Billing zip code

MAIL PAYMENT TO:

MABFO
 c/o Eirene Knott BRR Architecture
 8131 Metcalf Ave., Suite 300 Overland Park, KS 66204

REGISTRATION MAY ALSO BE FAXED OR EMAILED:

Fax: 913-262-9044
 Email: mabfo2004@gmail.com

[EVENTBRITE REGISTRATION LINK](#)

LODGING

Lodging is not included in the conference registration fee and can be completed separately. Reservations can be made by calling Margaritaville Resort at 1-800-826-8272. Please use code "MBFO".

Lodging is available at the resort for the low rate of \$119 plus \$10 resort fee per night. Please note, tax exempt organizations will need to provide all the required documentation to the resort in order to not pay state sales tax on lodging.



WHERE

MARGARITAVILLE LAKE RESORT

494 Tan-Tar-A Estate Dr
Osage Beach, MO 65065
(573) 348-3131

WHEN

Wednesday
November

09

Thursday
November

10

Friday
November

11

SCHEDULE

WEDNESDAY

09

7:00 - 8:00 am	Breakfast
7:30 am	Welcome by Ed Berkel (President, MABFO) & Cindy Davis, (Immediate Past President, ICC) speaking opportunity
8:00 - Noon	Sessions
Noon - 1:00 pm	Lunch - Dominic Sims (CEO, ICC) speaking opportunity
Noon - 6:00 pm	Vendor Expo
1:00 - 5:00 pm	Sessions resume
6:00 - 10:00 pm	Hospitality rooms open

THURSDAY

10

7:00 - 8:00 am	Breakfast
8:00 - Noon	Sessions
8:00 - 5:00 pm	Vendor Expo
Noon - 1:00 pm	Lunch - Dominic Sims (CEO, ICC) speaking opportunity
1:00 - 5:00 pm	Sessions resume
6:00 - 10:00 pm	Hospitality rooms open

FRIDAY

11

7:00 - 8:00 am	Breakfast
8:00 - 11:00 am	Sessions
11:00 am	Prize Giveaways

MEET THE INSTRUCTORS

ADAM BAER

Session 14 - A Deep Dive
Into Fire Technologies

MARK FASEL

Session 11 - 2018 IPC Nonpotable Water
& Methods of Venting
Plumbing Fixtures & Traps

GREG HEDRICK

Session 13 - Fire Alarm Installations

MATT BELCHER

Session 15 - A look at the History,
Evolution & Future of the Energy
Code & it's impact on Residential
& Commercial Construction
& Code Enforcement

JAKE FRANKLIN

Session 16 - Codes & Standards -
Who Creates Them & How

BRAD KEARNS

Session 19 - Performing Single
Family Dwelling Inspections,
a Panel Discussion

GENE BOECKER

Session 18 - Accessibility

SUSAN GEHRING

Session 14 - A Deep Dive
Into Fire Technologies

ED LISINSKI

Session 12 - Current Topics in
Wood Construction for the Building
& Fire Official

MATHEW BROWN

Session 6 - Meeting the Energy Code
Using the Performance Method/
Advanced Framing & Bracing

STEVE GETTEMEIER

Session 17 - Inspections -
What are They Good For

JOE MCCLAIN

Session 21 - Backflow Preventers,
Mixing Valves & Related Components

SCOTT DABNEY

Session 19 - Performing Single
Family Dwelling Inspections,
a Panel Discussion

JOHN GIBSON

Session 3 - 2021 IRC Essentials;
Session 9 - 2021 IRC Essentials

JOSH MCINTYRE

Session 20 - Critical Deck
Connections for the 2015 IRC

SHIRLEY ELLIS

Session 16 - Codes & Standards -
Who Creates Them & How

SEAN GRAHAM

Session 21 - Backflow Preventers,
Mixing Valves & Related Components

JOHN MORGAN

Session 19 - Performing Single
Family Dwelling Inspections,
a Panel Discussion

MEET THE INSTRUCTORS

RON NUTTALL

Session 6 - Meeting the Energy Code Using the Performance Method/
Advanced Framing & Bracing

FRANK STURGILL

Session 19 - Performing Single Family Dwelling Inspections,
a Panel Discussion

JASON WEBB

Session 7 - Helping Ensure System Success - Today & Tomorrow

RON RICHEY

Session 4 - Modern Fires & Fire Sprinklers

STEVE THOMAS

Session 2 - Applying Codes to Cannabis Facilities

JAY WOODWARD

Session 5 - 2018 IBC & IFC Assembly Spaces; Session 10 - 2018 IBC Classification & 2018 IBC Exterior Walls & Openings

SCOTT RODGERS

Session 21 - Backflow Preventers, Mixing Valves & Related Components

DOUG THORNBURG

Session 1 - 2021 IBC Significant Changes; Session 8 - 2021 IBC Significant Changes

ADAM BAER

Adam Baer joined Tech Electronics as the Director of IT Services in 2008. Adam is responsible for the strategic growth of IT service offerings, including fulfilling the technology needs and developing solutions for customers across all of the markets Tech Electronics serves as well as implementing managed IT services and technology-as-a-service offerings. Adam has more than 20 years of experience in the IT services industry and holds Cisco CCDA, Sonicwall CSSA and Aruba Network certifications.

MATT BELCHER

Matt has been actively involved in the construction industry for four decades, including six years as a top building codes official. Building to the highest levels of International Standards, he is a nationally recognized building codes & policy consultant, arbitrator, educator, and author on the business of energy efficient, "resilient" building and development. Additionally, he served for 10 years as Director of the High-Performance Buildings Research Center, part of the Midwest Energy Efficiency Research Consortium at the University of Missouri.

GENE BOECKER

Gene Boecker joined CCI in 1995 and has provided accessibility and accessible means of egress consultation for the built environment for the Fair Housing Act (FHA), American with Disabilities Act (ADA), and Federal, State and Local requirements. His experience includes consultation services for numerous complex projects including residential, retail, mixed-use, covered malls, lifestyle centers, corporate campuses, educational facilities, high-rise office, cultural, health care, large assembly and sports venues across the nation; most recently including various buildings at the World Trade center, Hudson Yards, SoFi Stadium, Google Bayview and Google Charleston East campuses.

Gene has consulted under Federal, State and Local requirements, including: NYC Building Code (2008 and 2014); NYC Local Law 58; 2010 ADA Standards for Accessible Design; American Barriers Act Accessibility Guidelines; Fair Housing Act (10 safe harbor documents); ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities; International Building Code; California Building Code Chapter 11A & 11B; Illinois Accessibility Code; 521 CMR; New Jersey Barrier Free Subcode; and Texas Accessibility Code.

MATHEW BROWN

Matt Brown, AKA BBQ Man, is an Engineered Wood Specialist at APA – The Engineered Wood Association. He is located in Indiana and serves the greater Chicago area and surrounding region. He works to educate the wood industry on the impacts of energy efficiency and educate the raters, code officials, designers and builders on the advantages of wood construction for energy efficiency and sustainability. Matt's career in the construction industry began over 15 years ago and has worked for a large regional production builder, an energy rating and engineering firm and joined the APA in 2014.

SCOTT DABNEY

Scott is currently a residential plans examiner, inspector supervisor, and alternate inspector for the City of O'Fallon, Missouri, and he is certified as a combination residential inspector and plan reviewer. He started with the City of O'Fallon as a construction inspector in 1996 and transferred to a building inspector in 1999, since then, Scott has worked his way up to his current position as a supervisor. Scott has been involved in the code adoption cycle for the City over the years and is considered O'Fallon's residential code expert.

SHIRLEY ELLIS

Ms. Ellis has been active in developing, enforcing, and promoting codes, including code training, for over 40 years in various municipalities, private companies, and state institutions. In February 2021, she retired from the Energy Systems Laboratory at Texas A&M, where she served as the Texas Emission Reduction Plan energy code expert for over 14 years and returned to the City of Bastrop as the Building Official. Early in her career, she worked directly for US Greenfiber, the Austin Energy Green Building Program, and the Lower Colorado River Authority (LCRA), as an energy code specialist/expert, and as a building official/inspector in Pampa, Belton, Bastrop, and Austin, Texas.

Currently, Ms. Ellis serves on the International Code Council Board of Directors. Currently serving on the Budget and Audit committees and as the Board Liaison to the Global Membership Council and the states of Idaho, Oregon, and Washington. In previous years, her committee appointments included serving on the CEO Evaluation, Council Policy, By-laws, as chair of both the Resolution and the Awards Committees and as Board Liaison to the Codes and Standards Committee, Sustainability Membership Committee, the ICC Chapters of the states of Texas, Oklahoma, Kansas, and Region X. She has 20 years of experience as an ICC contract instructor and subject matter expert. In addition, Shirley held positions on several boards and committees for various code organizations, beginning with a legacy organization - the Southern Building Code Congress (SBCCI), and continuing in the ICC, and ICC Chapters - the Building Officials Association of Texas (BOAT), the Bluebonnet Chapter, the Capital Area Building Officials Association, the Texas State Association of Plumbing Inspectors (TSAPI) and the Women In Code Enforcement and Development (WICED).

Ms. Ellis has been active in the Code Change arena for over 30 years and has lobbied building codes issues in Legislatures at the Federal and State level and delivered thousands of trainings across the United States, in Jamaica and in China, to Building Officials, Inspectors, Builders, Developers, Government Officials, Architects and Engineers in the areas of plan review, inspections, certification study skills, software use, and ordinance and code development.

In addition, Ms. Ellis has received several awards, among them the ICC Affiliate of the Year, 2006, the BOAT Industry Person of the Year, 2005 and the Austin Home Builder's President's Award, 2005.

MARK FASEL

Mark Fasel is a Director of PMG technical resources for the International Code Council, where he serves as a subject matter expert to the plumbing, mechanical, fuel gas, swimming pool and spa codes. He represents ICC in federal and state coalitions, task forces, committees, and councils where expertise in I-Code subjects is required. Mark has more than 28 years of experience in the manufacturing and construction industry where most recently he served as the manager of government affairs and codes and standards at Viega LLC, a press technology and plumbing and heating system manufacturer. Mark was responsible for developing and coordinating all codes and standards language to launch new product technologies and have them recognized in building codes and standards publications. Serving on multiple technical committees, he has experience with all North American standard development agencies and represented his company as a technical expert at multiple industry associations such as PPI, PPFA, PMI, CDA, NAM and ASA. In his duties as Government Relations Manager for the company, Mark worked with State Representatives reviewing legislation to promote sustainable manufacturing processes and supply chain availability of products.

Previously, Mark led the Permitting and Inspections Department as the Director/ Building Commissioner for the City of Fishers, Indiana, with a staff of 15 team members he and his team were responsible for developing and implementing best practice strategies to manage all building permits, plan review and inspections of industrial, commercial and residential buildings, utility locates, right of way inspections, and zoning inspections. During his time at Fishers, he saw tremendous growth which coined the then "Town of Fishers" as one of the fastest growing communities in the Midwest in 2000 - 2007. During and prior to his time as Building Commissioner, he obtained ICC certifications as a residential

and commercial building inspector, mechanical inspector, plumbing inspector, and electrical inspector. Mark was also very involved in his local ICC Chapter the Indiana Association of Building Officials where he served on the Board of Directors for many years as well as serving as past president in 2006. Mark also served on the board of directors for the Greater Indianapolis PHCC and taught multiple classes on plumbing, mechanical and fuel gas for PHCC, IABO and BAGI (builders association of greater Indianapolis) during his time at the City of Fishers.

Prior to Fishers, Mark was a licensed general contractor who became a Building Official for the City of Indianapolis performing plan review and building inspections on commercial and residential properties.

Mark has a degree in Science from Vincennes University.

JAKE FRANKLIN

Outside Sales & Technical – Over 20 years in the plumbing industry – Has worked for a plumbing company and a wholesaler. Focuses on job site startups, job site technical assistance and customer service.

SUSAN GEHRING

Susan joined Tech Electronics of Kansas, Topeka, in 2017, as a Senior Systems Designer. In 2020, she was named the Director of Fire Detection and Fire Suppression Technology, where she is responsible for the growth of the company's fire and life safety solutions and services. With over 15 years of fire and life safety, her background includes time as a Fire Prevention Inspector and Fire Protection Specialist for the State of Kansas – Office of the State Fire Marshal. Before that, Susan worked as a Technician/Inspector and Fire Alarm Designer for Professional Fire Alarm Systems, Inc (PFAS). Susan holds a Bachelor of Business Administration in Production/Operation and Supply Chain Management and a Minor in Economics from Kansas State University. Her certifications include NICET Level IV in Fire Protection Engineering Technology, Fire Alarm Systems and NFPA: Certified Fire Protection Specialist.

STEVE GETTEMEIER

Steve retired after 40 years with the Florissant Valley Fire Protection District. The last 22 years with the Fire District he was the Fire Marshal. Before joining the Fire Service, he was a union carpenter working for his family custom homebuilding business.

Steve is still active volunteering in the Community. He does Fire Marshal consulting with a local Fire Protection District and teaches several classes dealing with the different types of building construction and inspections. He customizes these classes to the audience and presents around the State.

JOHN GIBSON

A certified Master Code Professional and Certified Fire Marshal; John has forty (40) other certifications, including thirty- three (33) from the ICC. Having earned a B.S. in Engineering from the University of Delaware, he has also studied Architecture at Georgia Tech and completed courses in Emergency Management and Fire Prevention at the National Emergency Training Center. Formerly the Director of the Department of Permits and Inspections for Frederick County Maryland, he is an ICC Honorary Member, has served on the ICC- Evaluations Services (ICC- ES) Board of Directors, the ICC Code Correlating Committee, the Board of Directors for BOCA International, Inc., Maryland's Governor's Smart Code Strategy Group, Chaired the ICC Board for International Professional Standards and is an Honorary Member and Past President of the Maryland Building Officials Association. He currently teaches ICC administrative, building, residential, existing building, property maintenance, zoning, green building, wildland/urban interface, energy courses, and is a contract instructor at the Dept. of Homeland Security, United States Fire Administration, National Fire Academy, and Emmitsburg, MD. He received the ICC Educator of the Year award in 2010.

SEAN GRAHAM

Vice President – Over 30 years in the plumbing industry – Focuses on engineers, commercial projects and working with inspectors on products that meet specific codes.

GREG HEDRICK

A Retired Fire Marshal out of Olive Branch, MS, Greg joined UL as an Alarm Systems Auditor in 2014 and has over thirty five year's experience in Fire Alarm Systems, as well as being certified as a NICET Level III Technician. Greg works out of the Memphis, TN region for UL. His duties at UL include performing investigations and audits of fire alarm companies throughout the Southern part of the United States. He provides outreach to the AHJ community throughout the US for UL's Fire Alarm Certification program. He is also Certified as an ICC Fire Inspector Level I and II, Plans Examiner, 1041 Instructor and 1033 Fire Investigator.

BRAD KEARNS

Brad has been a building inspector and plan reviewer spanning 19 years with the City of Florissant, Missouri and City of St. Charles, Missouri. Brad is currently the Senior Building Inspector and Senior Plans Examiner for St. Charles, Missouri. Brad is a Master Code Professional and Certified Building Official.

ED LISINSKI

Ed is the Midwest Regional Manager for the American Wood Council. He earned his Bachelor of Science degree in Architectural Engineering from the Milwaukee School of Engineering. He worked in the construction field, for a design-build firm, and eventually worked as a plan reviewer, assistant director and then building official and department director for the City of West Allis, Wisconsin. After 16 years with West Allis, he joined AWC on December 1, 2021. He is active at ICC, including serving as the chair of the Building Membership Council and as chair of the Structural Code Development Committee.

JOE MCCLAIN

President of Mack McClain & Associates – Over 30 years in the plumbing industry – Has represented many of the plumbing industries top lines, with an emphasis on Commercial and Mechanical products.

JOSH MCINTYRE

Josh has been a Simpson Sales Representative since 2012. He spent 10 years in the construction and building materials industry prior to joining Simpson Strong-Tie. He graduated from Southern Illinois University - Edwardsville with a B.S. in Marketing and Communications. Josh is active with many local and state code official groups, Lumberman Associations, and Home Builder Associations.

JOHN MORGAN

John recently retired as the Building Official and Zoning Administrator with Frontenac, Missouri. John has worked as an inspector, plan reviewer and building official for various municipalities over the last 35 years. He has performed thousands of inspections and plan reviews over the years. John holds numerous ICC certifications including Master Code Professional and Certified Building Official. John has been involved in the code development process including serving three terms on the ICC Code Development General Building Code Committee and has attended code development hearings dating back to the legacy BOCA National Building Code.

RON NUTTALL

Ron Nuttall graduated from Texas Tech University with a degree in Business Administration and joined APA in 2017. He began his career with Georgia-Pacific's distribution division in Texas and relocated with GP to their Denver sales center in 1996. After leaving GP, he promoted engineered wood products for both |rusJoist and BlueLinx before joining APA. His responsibilities for APA include consulting with builders, designers and code officials in the West Central US. Ron conducts CEU-approved workshops for designers, code officials, and other building professionals on best practices for specification, selection, and application of engineered wood products.

RON RICHEY

Ron Ritchey began his career with the National Fire Sprinkler Association in 2016 after retiring from the Lafayette Fire Department (Indiana) with 23 years of service, sixteen of those years as Assistant Chief of the Fire Prevention Bureau. He currently provides membership services for five states in the Great Lakes Region and develops and provides NFSA training seminars for code officials, code consultants, building owners, and design professionals throughout the country.

Mr. Ritchey holds numerous state and national certifications, and his formal education includes earning an Associate's Degree in Public Safety and a Bachelor's Degree in Business Management.

Ron currently serves on several technical committees including the International Code Council's Fire Code Interpretation Committee (ICC-FCIC); the following National Fire Protection Association Committees- NFPA 1 Fire Code-Special Equipment, Processes, and Hazardous Materials (FCC-HAZ); NFPA 101 Life Safety Code, Residential Occupancies (SAF-RES); and NFPA 5000 Building Code, Building Code, Residential (BLD-RES).

Ron is a member of the National Fire Protection Association, the International Code Council, numerous Fire Chief and Fire Inspector associations, and is a Certified Fire Protection Specialist (CFPS).

SCOTT RODGERS

Outside Sales & Technical – 5 years in the plumbing industry – Has a direct focus on commercial products and working with engineers in the planning stages of commercial projects. Assists with job site startups and owners training.

FRANK STURGILL

Frank has been in the construction industry spanning a career over 44 years. 28 years as a carpenter and 16 years as a St. Louis County Building Inspector. Frank is currently the Assistant Chief for the residential building department. He has an associate degree in Building Industry as well as several ICC certifications. Frank works close to the inspectors and plan reviewers in applying the codes and ordinances of St. Louis County.

STEVE THOMAS

Mr. Thomas has over forty years' experience in working with building codes including plan reviews, inspections and administration. His firm provides building code consulting services for governmental agencies and architectural firms, as well as educational seminars on building codes across the country. Working for a building code-consulting firm since 1999, he has served as the contract Building Official for different local jurisdictions in Colorado. Mr. Thomas has served on several ICBO and ICC committees including serving as a member and then Chairman of the ICC Means of Egress Code Development Committee. He is also the author of the book, Building Code Basics, based on the 2009 & 2012 IBC and Building Code Essentials based on the 2015 & 2018 IBC, both available from ICC. He and his previous firm, Colorado Code Consulting were awarded the Educator of the Year Award by the ICC in 2018. He has presented building code classes for the last 35 years and provides an interesting and engaging look at building codes.

DOUG THORNBURG

Doug provides administrative and technical leadership for the ICC product development activities. Prior to employment with ICC in 2004, he was in private practice as a code consultant and educator on building codes for nine years. Doug also spent ten years with the International Conference of Building Officials (ICBO) where he served as Vice-President/Education.

In his current role, Doug also continues to create and present 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 in 2008, 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. He has authored a variety of code-related support publications, including the IBC Illustrated Handbook and the Significant Changes to the International Building Code.

JASON WEBB

Jason Webb is the Director of Industry Affairs for Potter Electric Signal Company. Following retirement from a 25-year fire service career which included over 12 years as AHJ in a high-growth metropolitan fire department, he spent five years as a fire safety advocate, trainer and program developer/manager for the National Fire Sprinkler Association and the Automatic Fire Alarm Association before coming to Potter. He is an accomplished author and instructor, providing continuing education for firefighters, fire and building code officials, fire protection contractors, and design professionals for over two decades. He is an active member of the ICC, NFPA, NFSA, AFSA, AFAA, FSSA and SFPE and sits on numerous codes and standards development committees.

JAY WOODWARD

Jay is a Senior Staff Architect with ICC's Business and Product Development department and works out of the Lenexa, Kansas Distribution Center. 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.

With over 30 years of experience in building design, construction, code enforcement and instruction, Jay's experience provides him with the ability to communicate effectively on issues of code application and design for code enforcement personnel as well as architects and designers. Jay has previously served as the secretariat for the ICC A117.1 standard committee, ICC's Energy Conservation Code and the International Building Code's Fire Safety Code Development committee.

SESSION DESCRIPTIONS

WEDNESDAY

09

SESSION 1 - 2021 IBC SIGNIFICANT CHANGES

SESSION 2 - APPLYING CODES TO CANNABIS FACILITIES

SESSION 3 - 2021 IRC ESSENTIALS

SESSION 4 - MODERN FIRES AND FIRE SPRINKLERS

SESSION 5 - 2018 IBC AND IFC ASSEMBLY SPACES

SESSION 6 - MEETING THE ENERGY CODE USING THE PERFORMANCE METHOD/
ADVANCED FRAMING AND BRACING

SESSION 7 - HELPING ENSURE SYSTEM SUCCESS TODAY AND TOMORROW

THURSDAY

10

SESSION 8 - 2021 IBC SIGNIFICANT CHANGES

SESSION 9 - 2021 IRC ESSENTIALS

SESSION 10 - 2018 IBC CLASSIFICATION AND 2018 IBC EXTERIOR WALLS
AND OPENINGS

SESSION 11 - 2018 IPC NONPOTABLE WATER AND METHODS OF VENTING PLUMBING
FIXTURES AND TRAPS

SESSION 12 - CURRENT TOPICS IN WOOD CONSTRUCTION

SESSION 13 - FIRE ALARM INSTALLATIONS

SESSION 14 - A DEEP DIVE INTO FIRE TECHNOLOGIES

FRIDAY

11

SESSION 15 - A LOOK AT THE HISTORY, EVOLUTION AND FUTURE OF THE ENERGY
CODE AND IT'S IMPACT ON RESIDENTIAL AND COMMERCIAL
CONSTRUCTION AND CODE ENFORCEMENT

SESSION 16 - CODES AND STANDARDS - WHO CREATES THEM AND HOW

SESSION 17 - INSPECTIONS -WHAT ARE THEY GOOD FOR

SESSION 18 - TYPICAL FAILS IN ACCESSIBILITY

SESSION 19 - PERFORMING SINGLE FAMILY DWELLING INSPECTIONS,
A PANEL DISCUSSION

SESSION 20 - CRITICAL DECK CONNECTIONS FOR THE 2015 IRC

SESSION 21 - BACKFLOW PREVENTERS, MIXING VALVES AND RELATED COMPONENTS

**All Sessions will provide Continuing Education Units (ICC; AIA HSW)/Professional Development Hours for building officials, fire officials, architects and engineers*

SESSION

1

11.09.22
All Day

2021 IBC Significant Changes

ICC - Doug Thornburg

DESCRIPTION

Overviews the significant changes from the 2018 to the 2021 IBC®. Identifies changes in organization and code requirements and the applicability of these requirements to design, plan review and inspection. This course uses the Significant Changes to the International Building Code, 2021 Edition.

6 CEUS

SESSION

2

11.09.22
All Day

Applying Codes to Cannabis Facilities

ICC - Steve Thomas

DESCRIPTION

This seminar will be a full exploration of the multitude of building uses and mixed uses related to the burgeoning cannabis industry, and how the codes may apply. The session will discuss the applicable requirements for these facilities in the different I-Codes and the NEC. The classification of the occupancies and different code requirements will be discussed as well.

6 CEUS

SESSION

3

11.09.22
All Day

2021 IRC Essentials

ICC - John Gibson

DESCRIPTION

This 6-hour seminar examines basic concepts of the 2021 International Residential Code® (IRC®). These concepts provide a basis for the correct utilization of the code. A clear understanding of the identified requirements allows the code user to apply the IRC in specific situations and helps 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. It will also provide a basis for the correct use and application of the code as well as to begin to develop a procedure for applying them.

6 CEUS

SESSION

4

11.09.22
All Day

Modern Fires and Fire Sprinklers

NFSA - Ron Richey

DESCRIPTION

This seminar will provide an overview of the complexities involved with the proper fire sprinkler protection of the modern built environment given the challenges of modern commodities and configurations. These occupancies range from homes, mid-rises, high-rises, big box stores, storage warehouses, and massive distribution warehouses with automated storage and retrieval systems. These buildings exist all across the country, from major metropolitan cities, suburban areas, and rural communities. All these complexities are challenging for all stakeholders involved, including responding fire department personnel who oftentimes have not received proper information and/or adequate training.

This seminar will provide attendees with an overview of recent fires involving these facilities, an overview of the codes and standards impacting them, as well as the recommendations to consider when approving permits or responding to incidents within these buildings. There needs to be an emphasis placed on the overall fire protection of these facilities from concept, design, installation, inspection, approval, pre-plan, and then to the fire. We must recognize the need for all stakeholders (building owners, installing contractors, responding firefighters and code enforcement personnel, etc.) to be engaged in the overall fire protection consideration of these facilities and to ensure that we have all features integrated to promote successful outcome of an actual fire in these facilities. The data is beginning to show, this is not a matter of if, but of when the fire will strike. While most of these fires that have burned buildings down with adequate fire protection and fire department response have been arson, the results can still be improved if everyone is involved in the process, yes, that includes fire department operations.

Participants will be provided with an overview of the different storage arrangements and commodity classifications. Three major types of sprinklers allowed in NFPA 13 and IFC Chapter 32 Requirements for High-Piled Combustible Storage will be discussed. The importance of pre-incident planning coordinated between the building owner and responding fire department personnel will be emphasized. The building owner's responsibility to ensure inspection, testing, and maintenance requirement in NFPA 25 are understood.

LEARNING OBJECTIVES:

At the conclusion of this seminar the participant will be able to:

1. Recognize the NFPA 13 and International Fire Code Chapter 32 requirements for high-piled combustible storage. Current trends of alternative means and methods will be discussed.
2. Discuss important storage arrangements and commodity classification factors affecting fire sprinkler protection.
3. Understand the distinct characteristics between storage sprinklers and standard spray sprinklers.
4. Recognize the different types of fire pumps and the fire-resistive requirements for fire pump rooms.
5. Identify deficiencies in relevant NFPA & FM Standards for Firefighter Response in Storage Occupancies.
6. Understand the interrelationship between responding fire department and building owner representatives with the engineered fire protection system.

6 CEUS

SESSION

5

11.09.22
All Day

2018 IBC and IFC Assembly Spaces

ICC - Jay Woodward

DESCRIPTION

This seminar will address the 2018 International Building Code® requirements applicable to design and construction of assembly spaces. It will address the differences between the various Group A occupancies and how assembly uses may also fit within the business or educational occupancy classifications. The seminar will cover the unique aspects of the code related to assembly uses including the stage and platform requirements of Section 410, the ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and Grandstands, the special egress provisions of Section 1028, along with the special amusement building and motion picture projection room requirements from Chapter 4. International Fire Code® provisions related to places of assembly such as requirements for a fire watch, limitations on open flames, combustibles and finishes will also be addressed. The discussion will include the unique IBC criteria applicable to accessibility, fire protection and building size issues in assembly buildings. During this seminar, participants will listen to lecture, discuss examples and participate in activities that pertain to the course content.

6 CEUS

SESSION

6

11.09.22
All Day

Meeting the Energy Code Using the Performance Method/Advanced Framing and Bracing

Mathew Brown, Ron Nuttall

DESCRIPTION

MEETING THE ENERGY CODE USING THE PERFORMANCE PATH

Understanding today's energy codes already creates a unique new challenge for builders and home energy raters. Determining the builders needs for meeting the energy code while balancing cost and structural requirements can be difficult. This presentation will look at common building construction practices in Climate Zones 3-5 and identify assemblies and credits that can be utilized for both ERI and simulated performance path compliance. Flexibility is often the key to whole home energy performance and cost effectiveness. This class will explore options that balance energy losses with measures that have greater efficiency gains to deliver a code compliant, energy efficient home.

1. Participants will understand how the flexibility inherent in performance-based energy code compliance can save costs.
2. Participants will understand how to apply performance-based energy code compliance to exterior wall assemblies through a performance compliance simulation.
3. Participants will understand the prescriptive path and the performance path to IECC compliance, the distinctions between them, and which one to choose for a particular project.
4. Participants will understand component and material effects on ERI and how these choices impact IECC compliance and costs.

ADVANCED FRAMING: MAXIMIZING THE VALUE & EFFICIENCY OF WOOD WALL SYSTEMS

Advanced Framing, also known as Optimum Value Engineering (OVE), is the name given to a variety of techniques available for use in Wood Framed Residential Construction where framing member spacing is greater than 16"oc. The primary purpose for use of most advanced framing techniques is to eliminate all unnecessary lumber from the framing process, reducing construction costs, while simultaneously eliminating thermal bridging and increasing the potential insulation volume to the thermal envelope of the home. Common advanced framing techniques will be shared along with the challenges and benefits that builders find during the conversion from traditional framing to advanced framing.

1. Learn about advanced framing details and techniques.
2. Understand how using advanced framing techniques can dramatically decrease the amount of lumber and labor needed and as a result, significantly lower overall construction costs.
3. Learn how advanced framing techniques promote energy efficiency by reducing thermal losses and maximizing the space for insulation.
4. Understand the obstacles and benefits of implementing advanced framing in lieu of traditional construction methods.

SESSION

6

11.09.22
All Day

Meeting the Energy Code Using the Performance Method/Advanced Framing and Bracing *Cont.*

IRC WALL BRACING

This presentation will walk you through an evaluation process that will help you better understand the Braced Wall requirements of the International Residential Code and how they impact the way that you design houses. In addition, new concepts in wall bracing design will be introduced that will minimize red tags related to wall systems and maximizes design flexibility. Attendees will learn the basics of IRC and APA simplified wall bracing methodologies and how to address the code requirements for wall bracing.

1. Attendees will learn and understand the various load paths necessitating the need for IRC braced wall designs.
2. Attendees will learn and understand the IRC simplified wall bracing method, and the APA simplified wall bracing methods will be taught and contrasted.
3. Attendees will learn and understand the history of wall bracing in the IRC, bracing methods, braced wall lines and braced wall paths.
4. Attendees will learn and understand the required braced wall panel widths and locations in a braced wall line.

6 CEUS

SESSION

7

11.09.22
All Day

Helping Ensure System Success – Today and Tomorrow

Jason Webb

DESCRIPTION

Water-based fire protection systems are to be maintained in accordance with NFPA 25. Fire Alarm Systems in accordance with NFPA 72. But what addresses how they work together? That, along with new technologies like remote inspections and automated testing have made for some significant changes in direction of some standards and many new technical requirements. Newer standards like NFPA 3 & 4, and the soon to be published NFPA 915 are impacting building and fire code official in ways they may not be ready for. In this session, we'll take a look at recent important changes to NFPA 25 & 72, and peek into what NFPA 3 & 4, and 915 will mean for helping ensure systems operate when needed, and what code officials need to prepare for.

6 CEUS

SESSION

8

11.10.22
All Day

2021 IBC Significant Changes

ICC - Doug Thornburg

DESCRIPTION

Overviews the significant changes from the 2018 to the 2021 IBC®. Identifies changes in organization and code requirements and the applicability of these requirements to design, plan review and inspection. This course uses the Significant Changes to the International Building Code, 2021 Edition.

6 CEUS

SESSION

9

11.10.22
All Day

2021 IRC Essentials

ICC - John Gibson

DESCRIPTION

This 6-hour seminar examines basic concepts of the 2021 International Residential Code® (IRC®). These concepts provide a basis for the correct utilization of the code. A clear understanding of the identified requirements allows the code user to apply the IRC in specific situations and helps 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. It will also provide a basis for the correct use and application of the code as well as to begin to develop a procedure for applying them.

6 CEUS

SESSION

10

11.10.22
All Day

2018 IBC Classification and 2018 IBC Exterior Walls and Openings

ICC - Jay Woodward

DESCRIPTION

2018 IBC BUILDING CLASSIFICATIONS

This seminar addresses the key issues of the 2018 International Building Code® (IBC®) regarding the proper classification of buildings. The process for correctly evaluating a building for code compliance relies on a systematic approach to the determination of occupancy classification and construction type. Everything starts with the correct building classification! A clear understanding of the classification process provides the groundwork for the proper application of many other important code provisions.

2018 IBC EXTERIOR WALL AND OPENING PROTECTION

This seminar addresses the various provisions in the IBC dealing with exterior wall design and construction. Although such walls are primarily regulated due to their location on the lot, many other additional requirements are set forth in the code. Exterior bearing walls are regulated by Table 601, while the use of exterior exit stairways, exit courts and exterior areas of assisted rescue will also typically mandate some degree of fire-resistance. Specific topics include fire separation distance, location on lot, multiple buildings on the same lot, type of construction, combustible materials on exterior side of wall, exitways, including exterior exit stairways, exit courts, interior exit stairways and exterior balconies, exterior areas of assisted rescue and fire wall termination.

6 CEUS

SESSION

11

11.10.22
All Day

2018 IPC Nonpotable Water and Methods of Venting Plumbing Fixtures and Traps

ICC - Mark Fasel

DESCRIPTION

2018 IPC NONPOTABLE WATER

This seminar reviews code provisions in the 2018 International Plumbing Code for non-potable water systems. This seminar identifies the provisions in the 2018 IPC pertaining to nonpotable water systems. It summarizes the health and safety issues addressed in the code for these systems when installed for many indoor or outdoor applications. It covers on-site reuse systems for the collection, storage, treatment and reuse of sources of water such as rainwater, graywater and other clear water streams. It also includes centralized nonpotable water sources, such as reclaimed water piped directly to the building.

2018 IPC METHODS OF VENTING

During this session, we will present the various approaches to venting that are permitted in the 2018 IPC. You will find that these venting provisions offer the installer and designer different paths to achieving an adequately vented system, which could result in cost savings along with ease of installation in different types of construction. The goal of this seminar is to provide key information on the design, installation and inspection principles located in Chapter 7 Sanitary Drain, Chapter 8 Indirect/Special Waste, and Chapter 9 Vents of the 2018 IPC."

6 CEUS

SESSION

12

11.10.22
All Day

Current Topics in Wood Construction

AWC - Ed Lisinski

DESCRIPTION

This is a series of short seminars from the American Wood Council:

- **BCD 231: Construction Fire Safety Best Practices:** this is a great course for both fire and building officials...it goes over fire safety on construction sites
- **BCD 501: Fire-Resistance and Sound Ratings for Wood Framed Assemblies:** another really good one that deals with wood framed buildings and getting fire resistance, especially where exterior walls and interior floors intersect, and how to determine sound resistance in residential properties.
- **DES 343: Woodn't You Like to Know?:** A great class that is sort of our catch all for a number of topics such as fasteners, connections, cutting and notching, some fire resistance, etc.
- **DES 622: Background and Overview of New Mass Timber Provisions:** Just like the title says. This is #3 in a series of 6 classes on mass timber
- **DES 623: Height & Areas and Construction Fire Safety:** This is #4 in the series of 6 on mass timber. It will give them the basics on building size and fire ratings in those buildings

6 CEUS

SESSION

13

11.10.22
All Day

Fire Alarm Installations

UL Greg Hedrick

DESCRIPTION

This class will cover the basics of fire alarm systems utilizing NFPA 72-2019, NEC 2014 and IFC 2018. The course will also discuss control panels, initiating devices, notification devices, wiring of the system, signal processing, placement of devices, notification appliance placement, acceptance testing and central station service. The course will also discuss the National Electric Code requirements as it pertains to fire alarm systems. There will be thorough discussion on Emergency Radio Communication Enhancement Systems (ERCES).

6 CEUS

SESSION
14
11.10.22
All Day

A Deep Dive into Fire Technologies: From Wireless & ERCES to Self-Testing Detectors and Cloud Connected Real-Time Alerting

Tech Electronics: Susan Gehring, Adam Baer, Joe Filla

DESCRIPTION

Join us for a full-day seminar broken up into four sessions where technologies will be reviewed along with code requirements, processes, permitting, documentation, and inspections that relate to each technology. The final session of the day will be a facilitated group discussion focused on sharing experiences, techniques, and tools to drive change and navigate hurdles in your jurisdictions.

SESSION 1: WIRELESS TECHNOLOGY: FIRE PROTECTION DURING CONSTRUCTION

Speaker: Susan Gehring, Tech Electronics - Director of Fire Detection & Suppression Technologies

SESSION 2: EMERGENCY RADIO COMMUNICATIONS ENHANCEMENT SYSTEMS (ERCES), PUBLIC SAFETY DAS, AND THE LATEST UPDATES IN 2-HOUR RATED CABLE

Speaker: Adam Baer, Tech Electronics - Director of IT Systems & Services

SESSION 3: CHANGES IN FIRE ALARM TECHNOLOGY: SELF-TESTING DETECTORS, INSPIRE CONTROL PANEL, AND CLSS GATEWAY

Speaker: Susan Gehring, Tech Electronics - Director of Fire Detection & Suppression Technologies

SESSION 4: GROUP DISCUSSION FACILITATED TO REVIEW THE IMPLEMENTATION OF THE PRESENTED TOPICS

Facilitators: Joe Filla, Tech Electronics - Technology Solutions Manager;
Susan Gehring, Tech Electronics - Director of Fire Detection & Suppression Technologies

6 CEUS

SESSION
15
11.11.22
8am - 11am

A look at the History, Evolution and Future of the Energy Code & it's impact on Residential and Commercial Construction & Code Enforcement

Matt Belcher

DESCRIPTION

A look at the History, Evolution and Future of the Energy Code and the impact on important processes in Residential and Commercial Construction Business and Code Enforcement

3 CEUS

SESSION
16
11.11.22
8am - 11am

Codes and Standards - Who Creates Them and How

Shirley Ellis

DESCRIPTION

This class is all about building industry codes and standards. As professionals in this industry, you may think you understand building codes and standards, but do you really. This session will discuss ways codes and standards are similar and more importantly how they differ. Also, how are codes and standards developed, maintained and your role in the processes will be covered during the session.

3 CEUS

SESSION

17

11.11.22
8am - 11am

Inspections - What are They Good For

Steve Gettemeier

DESCRIPTION

This presentation will be an audience participation class with round table discussions among building and fire code professionals.

Some topics that will be covered in this class:

- What information needs be shared from the building and fire officials to the engine companies and police.
- How new occupancy inspections differ when looking from the building and fire official's eyes.
- What inspections should be done jointly.
- Why should initial fire cause investigations include the building department?
- What is happening in "Big Box " stores as it relates to recent fires and structural problems.

3 CEUS

SESSION

18

11.11.22
10am - 11am

Typical Fails in Accessibility

Gene Boecker

DESCRIPTION

In any project, there is always, ALWAYS something that is not constructed properly to provide accessibility. It may be that the design was wrong or that the installation was wrong. This presentation will exam the typical elements that are cited in inspections as "not in compliance with the standards." We will look at interior and site elements, noting the errors and discuss possible solutions. The IEBC and IBC as well as the A117.1 standard will be the main "codes" used in the presentation but we'll also touch on the federal ADA, FHA, and Section 504 requirements so that participants will have a better understanding about why certain things may be as they are in the building.

3 CEUS

SESSION

19

11.11.22
8am - 11am

Performing Single Family Dwelling Inspections, a Panel Discussion

Moderator - John Morgan

Panel - Brad Kearns, Scott Dabney, Frank Sturgill

DESCRIPTION

This class will cover single family dwelling building inspections. This is a panel discussion group to discuss the requirements of the International Residential Code as it relates to the various building inspections from footing to final. The intent in this class is to promote discussion among the panel and the attendees. We will discuss each phase on the inspection process, site inspections, footing inspections, foundation inspections, framing and bracing inspections, and final inspections. This will give the opportunity for building officials and inspectors from various municipalities to engage in a networking process in a classroom setting to discuss the codes, inspection process and experiences.

3 CEUS

SESSION
20
11.11.22
8am - 11am

Critical Deck Connections for the 2015 IRC

Simpson - Josh McIntyre

DESCRIPTION

This course will provide an introductory look at some of the core code requirements for deck construction from the 2015 International Residential Code.

3 CEUS

SESSION
21
11.11.22
8am - 11am

Backflow Preventers, Mixing Valves & Related Components

Sean Graham, Joe McClain, Scott Rodgers, Jake Franklin

DESCRIPTION

Thermostatic and digital master mixing valve - Proper install, piping, ASSE standards, legionella and hot water

Sewage pumps - Proper sizing, install items to note; head, run, discharge

Trench drains - Proper slope, flow rates, options for layout. Body material types and proper fluid handling; caustic, acids, chemical resistance

3 CEUS