



Meeting Agenda for January 7, 2020
Redwood Empire Association of Code Officials
1007-B West COLLEGE AVE # 326 SANTA ROSA CA 95401

**THE ANNUAL BUSINESS MEETING ON January 7, 2020
WILL BE HELD AT:
Cattlemen's Restaurant,
5012 Petaluma Blvd N, Petaluma, CA 94952
\$25.00 PER PERSON
MEETING START TIME IS 12-NOON**

CALL TO ORDER and PLEDGE OF ALLEGIANCE

SELF INTRODUCTIONS - Officers, Guests, and Members

APPROVAL OF MINUTES - December 3rd, 2019 Meeting

OFFICER REPORTS

President: Jay Bradford -

An Executive Board Meeting was held on December 16, 2019 with current board members and the education committee attending. We discussed the January 7, 2020 membership meeting agenda and upcoming items for the 2020 calendar year.

Vice President: David Willoughby

Treasurer: Steve Buffenbarger - Account transactions summaries

Checking beginning balance: \$25,970.39

Deposits:

Debits and Checks:

Checking ending balance:

Secretary: Steve Neely

Past President: Charles Lucas

LIAISON REPORTS

CSI: Christian Holbrook and Matthew Cardel

SCFPO: Vacant -

ICC Rep: Chris Ochoa

CBOAC: Vacant

CALBO: Brad Wungluck

CEC Rep: Amie Brousseau - See attached report.

IAEI: Doug Hughes

BayREN: Christine Condon

ICC Region 1: Charles Lucas

COMMITTEE REPORTS

Education Committee: Eric Seabrook - The committee discussed possible upcoming trainings.

Website Committee: Jay Bradford - The committee decided to utilize existing services and monitor the offerings and features of the ICC products and will reevaluate as needed.

Audit Committee: Mike Renner

PROGRAM

Sonoma Clean Power: Lead Locally Projects and Advanced Energy Center

Speaker: Chad Asay, Sonoma Clean Power Lead Locally Program Manager.

As Program Manager, Chad Asay is responsible for the development, management and implementation of Sonoma Clean Power's "Lead Locally" program, which aims to develop strategies to double energy efficiency in existing buildings through a combination of cutting-edge energy efficiency research. Additionally, the program will develop a physical Energy Marketplace where the public will be able to learn about, test and purchase energy saving technologies.

Chad previously worked in administrative management for the Sonoma County Community Development Commission, and has over 15 years' experience in hospitality and resort development and management. Chad is multi-lingual and has managed multiple resorts in Latin America. Chad graduated from the University of Phoenix with a Bachelor's of Science degree in Business, with a concentration on Global Management.

Description: Sonoma Clean Power Lead Locally aims to develop strategies to double the energy efficiency of our community's existing buildings. The Program helps SCP customers install high-efficiency technologies that may be new to the local market, including technologies such as heat pump water heaters, ducted mini-split heat pumps, and residential phase change materials. SCP staff will provide REACO with an overview of Lead Locally technologies and the educational resources that will be promoted through Sonoma Clean Power's Advanced Energy Center, slated to open in late spring.

CORRESPONDENCE AND ANNOUNCEMENTS

1. The IAFF Foundation Burn Fund and UL are collaborating to present several topics at the Meeting the Safety Challenges of the Future Built Environment Forum January 13-14, 2020, in Sacramento, California. See attached announcement.
2. Nor Cal FPO's hosts 3 days of training on the 2019 CBC / CFC February 4th to 6th, 2020 from 8:00 am - 4:30 pm at the North Coast Builders Exchange (103 Apollo Way, Santa Rosa). Cost: \$125/day or \$325/3 days for members

NEW BUSINESS

1. Fiscal Year Budget – See attached report.
2. DOJ State Charity Delinquency Letter
3. IEAI is requesting a total sponsorship of \$750 up from the previous approved request of \$300.
4. REACO Membership Meeting dates and locations
5. CBOAC Voucher Use for one REACO Member

OLD BUSINESS

1. 2020 REACO Membership Dues

LEGISLATIVE NEWS

1. 2019 California Building Standards Code, CCR Title 24 went into effect January 1, 2020:
<https://www.dgs.ca.gov/BSC/Codes>

CODE ISSUES

ADJOURNMENT

Next meeting will be the **Regular Monthly Meeting on February 4, 2020 beginning at 12 noon** at the Cattlemen's Restaurant in Petaluma.

Redwood Empire Association of Code Officials (REACO)

President Jay Bradford

1007B West College Avenue, Box 326

Santa Rosa, CA 95401

BUDGET WORKSHEET FOR CALENDAR YEAR 2019-20

Budget Worksheet Prepared 1/2/2020

SAVINGS ACCOUNT

Balance 12/31/2018 \$27,653

Balance 12/31/2019 \$27,864

Proposed Balance 12/31/2020 \$27,384

REVENUE

PROFIT / LOSS

-\$480

Career Succession Classes	\$10,000	\$11,235	\$1,235	\$1,200	increase due to use of ICC edu voucher	\$11,200	Preferred provider edu voucher \$1200 included
Membership Lunch Meetings	\$4,900	\$6,347	\$1,447	\$800	increase toward actual	\$5,700	rev includes yearly members @ \$225x6.
Membership Dues	\$2,750	\$2,533	-\$217	-\$250	reduce to 2019 actual membership	\$2,500	
Total Revenue	\$17,650	\$20,115	\$2,465	\$1,750		\$19,400	
EXPENDITURES							
Career Succession Classes	\$5,000	\$6,862	\$1,862	\$0	No change	\$5,000	
Membership Lunch Meetings	\$5,700	\$5,911	\$211	\$300	increase to reflect actual	\$6,000	
Memberships & Dues	\$1,000	\$450	-\$550	-\$500	Includes: ICC & preferred provider. 5 Board members, 10 meetings @ \$16 ea.	\$500	
Executive Board Lunch Meetings	\$650	\$664	\$14	\$150	3 Committee members, 5 meetings @ \$16 ea.	\$800	
Committee Lunch Meetings	\$0	\$0	\$0	\$250	B of A fee	\$250	
Professional Processing Fees	\$15	\$9	-\$6	\$0	Wix \$325, Form Builder \$400	\$15	
Professional Fees Website	\$575	\$714	\$140	\$140	bis lic, tax acct, 199 form	\$715	
Professional Fees Legal and Accounting	\$750	\$1,289	\$539	\$0	Post box for 2 years until 2022. Outed Pres Award.	\$750	
Office Supplies & Post box rental	\$250	\$195	-\$55	\$600	reduce \$1000	\$850	PO box due \$650 will pay for 2 years
Donations	\$2,000	\$1,000	-\$1,000	-\$1,000	RESCL booth, CBOAC \$1000, ICC Leadership	\$1,000	\$300 earmark for IAEI requesting \$750 (already calbed in \$750)
Scholarships / Sponsorship	\$2,000	\$1,750	-\$250	\$2,000	Trip expense \$2000 for ICC Leadership training	\$4,000	
Total Expenditures	\$17,940	\$18,844	\$905	\$1,940		\$19,880	

Redwood Empire Association of Code Officials (REACO)

President Jay Bradford

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Santa Rosa, CA 95401

BUDGET FOR CALENDAR YEAR 2020

SAVINGS ACCOUNT

Balance 12/31/2018 \$27,653

Balance 12/31/2019 \$27,864

Proposed Balance 12/31/2020 \$27,384

PROFIT / LOSS

-\$480

REVENUE

Career Succession Classes \$11,200

Membership Lunch Meetings \$5,700

Membership Dues \$2,500

Total Revenue \$19,400

EXPENDITURES

Career Succession Classes \$5,000

Membership Lunch Meetings \$6,000

Memberships & Dues \$500

Executive Board Lunch Meetings \$800

Committee Lunch Meetings \$250

Professional Processing Fee \$15

Professional Fees Website \$715

Professional Fees Legal and Accounting \$750

Office Supplies & Post box rental \$850

Donations \$1,000

Scholarships / Sponsorship \$4,000

Total Expenditures \$19,880



Efficiency Division Updates

CALIFORNIA ENERGY COMMISSION

REACO ICC Monthly Meeting

January 7, 2020

Efficiency Division Updates

- Business Meeting on December 11: EnergyPro version 8.0 approved for compliance with nonresidential 2019 Energy Code requirements. The following localities approved for local ordinances exceeding the 2019 Energy Code: City of Menlo Park, City of San Jose, City of San Mateo, City of Santa Monica, City of West Hollywood, and the County of Marin. Approval of National Lighting Contractors Association of America (NLCAA) for lighting controls Acceptance Test Technician Certification Provider (ATTCP) and the Refrigeration Service Engineers Society (RSES) for mechanical ATTCP. Next Business meeting is January 22.
Business Meetings Agendas and Minutes:
<https://www.energy.ca.gov/proceedings/business-meetings>
- **Staff review of Trinity Public Utility District's Application** for a photovoltaic waiver is available and open for public comment until January 13.
<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-BSTD-05>
- New **Blueprint Newsletter, Issue 128, October – December 2019** is now available:
<https://www.energy.ca.gov/newsroom/blueprint-newsletter>
- CHEERS HERS provider has submitted an **application amendment** to include their name change to California Energy Registry.
<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-HERS-01>
- Aurora Solar has submitted an application for CEC approval of their cloud-based solar design tool for validating the compliance of PV systems.

Energy Standards Training and Events

- **Energy Commission training** upcoming dates and locations:
www.energy.ca.gov/title24/orc/schedule_oe/index.php
 - 1/14: Illuminating Engineering Society, Culver City – 2019 Nonresidential Lighting
 - 1/15: Illuminating Engineering Society, Van Nuys – 2019 Nonresidential Lighting
 - 1/16: OJ Insulation, Gilroy, CA – 2019 Energy Code QII Requirements
 - 1/22: OJ Insulation, San Diego, CA – 2019 Energy Code QII Requirements
- **Energy Code Ace training:** www.energycodeace.com/training
- **PG&E training:** www.pge.com/pec
- **BayREN training:** www.bayrencodes.org/services/trainings/

Energy Code Resources

- **Online Resource Center:** <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/online-resource-center>
- **Energy Standards Hotline email** Title24@energy.ca.gov or call 800-772-3300

To receive regular updates, sign up and respond to the confirmation email:

- **Blueprint Newsletter email list:** <https://www.energy.ca.gov/newsroom/blueprint-newsletter>
- **Building Standards email list:** <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards>
- **Appliance Standards email list:** <https://www.energy.ca.gov/rules-and-regulations/appliance-efficiency-regulations-title-20>

ICC Calendar of Upcoming Dates:

- **Jan 15** 10 am PT, [Premium Access and Online Digital Library webinar](#)
- **Jan 14-16** [Principles of Building Safety Institute](#) at ICC in Brea, CA
- **Jan 27-30** [Code Official Institute](#) in Oakland, CA
- **Feb 13** [Essential Skills for Rising Leaders](#) at ICC in Brea, CA
- **Feb 27** [2015 IBC Special Topics - Day 1](#) at ICC in Brea, CA
- **Feb 28** [2015 IBC Special Topics - Day 2](#) at ICC in Brea, CA
- **March 5** [2018 IWUIC Overview](#) at ICC in Brea, CA
- **April 1** Deadline for [Emory R. Rodgers Leadership in Building Safety Fellowship](#)
- **April 5-9** [CALBO Annual Meeting](#), Indian Wells, CA
- **May** [Building Safety Month: Safer Buildings, Safer Communities, Safer World](#)
- **May 3-7** [CBOAC Annual Meeting](#), Morro Bay, CA
- **June 8 – 10** Chapter Leadership Academy, Denver, CO
- **Oct 11 -14** “See You in St. Louis” at [ICC’s 2020 Annual Conference](#) in St. Louis, MO

NOTES:

Click [here](#) for ICC’s Government Relations Department Chapter Monthly Update - January 2020

Click [here](#) for preliminary 2019 Group B Online Governmental Consensus Vote (OGCV) Results

Listen to the latest ICC Pulse Podcast: In Episode 23, Mark Johnson, ICC’s Executive Vice President of Business Development, interviews General Counsel Mel Oncu about copyright and the I-codes. [Click here](#) to listen.

Check out the [report](#) from the ICC October 23, 2019 Seismic Roundtable: Next Steps Forum Event.

Download the new [“myICC” app](#).

Federal and state monies may be available for your jurisdiction for code implementation, training and enforcement, click [here](#) for more info.

Face-to-Face Full Day Seminars: [Significant Structural Changes in the 2019 CBC / 2018 IBC](#)

ICC’s Past Presiding Officers offer special training [webinar series](#) to develop leadership qualities.

These publications are now available: [Significant Changes to the 2019 California Codes](#) for Building, Residential, and Fire, plus another great resource: [Complete Revision History to the 2018 I-Codes](#).

ICC [Government Relations](#) Chapter Monthly Update – January 2020

Follow @ICC_GR on [Twitter](#) for breaking news & announcements throughout the month

“Safer Buildings, Safer Communities, Safer World” is the theme of 40th annual Building Safety Month May is [Building Safety Month](#) for the International Code Council and for communities around the world. But what makes the 2020 Building Safety Month special is it marks its 40th anniversary. Building Safety Month has grown to involve a broad coalition of partners and supporters. It raises awareness about the importance of building codes and a strong system of code enforcement so that homeowners, government officials and the public have the necessary information for ensuring safety in the spaces where they live, work and learn. The Code Council, its 64,000 members, and a range of construction and design professionals participate in this campaign to highlight the importance of building safety through proclamations, informational events, legislative briefings and more. The [weekly themes for 2020](#) are:

- [Week One](#), May 1-10: **Disaster Preparedness**
- [Week Two](#), May 11-17: **Water Safety**
- [Week Three](#), May 18-24: **Resiliency. Sustainability. Innovation.**
- [Week Four](#), May 25-31: **Training the Next Generation**

Corporate sponsorship opportunities are [available](#). International partners include the Australian Building Codes Board, Building Officials Institute of New Zealand and the Ontario Building Officials Association. For more information about the campaign, visit www.buildingsafetymonth.org and [click here](#) to download the campaign poster. Follow along on social media using the hashtag #BuildingSafety365.

Preliminary results of Group B voting in person and online have been announced by the Code Council

With the completion of the 2019 Group B Public Committee Hearings in Las Vegas October 23-30 and the post-hearings online voting, the International Code Council recently released the preliminary results which will shape the 2021 International Codes. [Click here to see those preliminary results](#). Keep in mind they are not final as they have yet to be certified by the Validation Committee and confirmed by the ICC Board of Directors (in accordance with Section 10.1 of Council Policy 28 Code Development). The post-hearings online voting, formally known as the Online Governmental Consensus Vote (OGCV), was conducted November 19 to December 6. The 2019 Group B Final Action results, including vote tallies from the OGCV, will be posted following certification in accordance with Section 10.4 of CP 28.

New, easy-to-complete ICC Chapter Annual Report form will be launched online on January 6

Starting Monday, January 6, a “new, improved” ICC Chapter Annual Report application will launch. Karla Price Higgs, Vice President Member Services, said the report will be housed in the ICC website. To open it, those completing your Chapter’s annual report log in to their myICC page and click on “Chapters.” Then follow the prompts to “Add Annual Report.” “When you choose to complete the two-part report, your Chapter will be eligible for all benefits programs, including your Chapter Education Benefit Day, the Chapter Rewards Program, and the Chapter Awards program,” she said. [The new deadline for completing the application each year is March 15](#). Questions or comments? Contact the ICC Chapter Relations office by phone 888-ICC-SAFE x5268, or email chapters@iccsafe.org.

Master Code Professional status gaining popularity and gets a new look with an official MCP jacket

With the [creation of a special jacket](#), the ICC Master Code Professional status is getting a new look as well as its [own webpage on the ICC website](#). Other updates for MCPs include:

- Updated wall certificate
- Updated pin
- Updated welcome letter
- Sample press release

About 800 code professionals have achieved the Master Code Professional status. The Building Safety Journal recently [featured this new MCP, Gregory Horsfall](#), Building Inspector III, Placerville, Calif.

DOE report announces that 2018 International Energy Conservation Code helps produce cost savings

The U.S. Department of Energy (DOE) [recently announced](#) the 2018 International Energy Conservation Code (IECC) will improve energy efficiency in residential buildings. In support of this determination, DOE

conducted technical analysis evaluating the impacts of the updated code relative to the previous 2015 edition. DOE estimates national savings of approximately:

- 1.97 percent energy cost savings
- 1.91 percent source energy savings
- 1.68 percent site energy savings

Additional related information is available at [Regulations.gov](https://www.regulations.gov). Upon publication of an affirmative determination, states are required to certify that they have reviewed the provisions of their residential building code regarding energy efficiency, and made a determination as to whether it is appropriate for them to revise their code to meet or exceed the updated edition of the IECC. [Click here for a Building Safety Journal news feature](#) on the IECC authored by Michelle Britt, ICC Director of Energy Programs.

April 1 is the deadline to submit applications for the prestigious Emory R. Rodgers Fellowship

The deadline to [submit applications](#) to receive the [2020 Emory R. Rodgers Leadership in Building Safety Fellowship Award](#) is April 1. Emory R. Rodgers spent more than four decades devoting himself to the building safety profession and to the creation and ongoing development of the International Codes. As a leader in the industry and in the Code Council community, he put forth unprecedented efforts in educating and preparing the next generation of building safety professionals. This Fellowship is available annually to a building safety professional, who has embarked upon a demonstrated executive-level career path, and wants to further develop leadership skills through an eligible executive development program. The Fellowship will afford up to \$20,000 dollars to cover the full cost of the educational program and the award recipient's travel to and from the program. The 2019 recipient of the award was [Chris Landreth](#), Supervising Building and Fire Inspector for the City of Tracy, Calif. [Read more here](#).

2020 budget packages have several appropriations that are important to America's built environment

The U.S. Congress recently passed and President Donald Trump signed into law two spending packages for fiscal year 2020, including an appropriations agreement which funds several programs that benefit the building safety industry and which the International Code Council supported through engagement with lawmakers. They include:

- **A \$100 million increase to \$3.4 billion** total for the [Community Development Block Grant Program](#), which funds code adoption and enforcement activities at the state and local levels.
- **A \$167 million increase** in funding for the **National Institute of Standards and Technology (NIST)**. The Institute's Science and Technical Research and Services received a **\$29.5 million** boost over current levels. NIST's disaster resilience grants were preserved and current funding levels will allow NIST's premise plumbing research to continue.
- An **\$80 million increase in FEMA preparedness grants to \$2.9 billion**, including a \$35 million increase to \$560 million for the State Homeland Security Grant Program and a \$5 million increase to \$355 million for the Assistance to Firefighters Grant Program, staffing for an adequate Fire & Emergency Response Grant Program, and Emergency Management Performance Grant Program, respectively.
- **A \$20 million increase to \$1.26 billion for Perkins career and technical education state grants.**
- **A \$1.6 million increase to \$4.5 million** for [WaterSense](#), which the International Green Construction Code leverages and which is supported by both the International Accreditation Service and ICC Evaluation Service products.
- **A \$3 million increase to \$10 million for the Department of Energy's [Building Energy Codes Program](#)**, which supports the development and implementation of the IECC.

The appropriations legislation also extends from December 31, 2017, to December 31, 2020, the 45L tax credit for new homes that are 50 percent more efficient than the 2006 IECC and, over the same period, the 179D tax deduction for efficiency improvements to commercial buildings. The Code Council looks forward to continuing to work with the federal government, our members and our partners to aid in efforts to improve building safety and resilience. To read the FEMA spending agreement, click [here](#). The remaining spending bills may be accessed [here](#), and the tax provisions, [here](#).

Advisory Council urges FEMA to partner with ICC to protect safety and property with current codes

The Federal Emergency Management Agency's (FEMA) statutorily established National Advisory Council (NAC) recently urged the agency to partner with ICC to raise awareness of codes' mitigation benefits.

The report recommended FEMA to encourage up-to-date codes in grant programs that improve community preparedness and resilience. In the aftermath of Hurricane Katrina, the U.S. Congress required the establishment of the NAC—a 35 member cross-section of officials, emergency managers, and emergency response providers from state, local, tribal and territorial governments, the private sector and nongovernmental organizations—to advise FEMA. The Code Council participates in the NAC’s recommendation development process and presented before the NAC in October. According to FEMA, [roughly two-thirds of communities that face hazard risk have not adopted hazard resistant codes](#). Many studies have demonstrated the extensive loss avoidance benefits current codes provide. [Read more here about this ongoing effort](#).

ICC joins stake holders in U.S. House testimony on the National Windstorm Impact Reduction Program

Virtually every state of our nation experiences some variety of windstorm, and from 1980 to 2017, these natural disasters have resulted in over 5,000 fatalities and \$1 trillion in economic losses. That’s why recent testimony from ICC and stake holders before the U.S. House of Representatives’ Subcommittees on Research and Technology and Environment stressed support for the reauthorization of the National Windstorm Impact Reduction Program (NWIRP). The program is implemented through a coordinated effort between federal agencies, academia, and private sector organizations such as the International Code Council. The Federal Emergency Management Agency (FEMA), National Institute of Standards and Technology (NIST), National Oceanographic and Atmospheric Administration (NOAA) and National Science Foundation are all participants. The program supports the development, adoption and enforcement of building codes and other mitigation strategies. “Building codes have been recognized as a highly cost-effective hazard mitigation measure,” Ryan Colker, ICC Vice President of Innovation and Executive Director of the Alliance for National and Community Resilience (ANCR). “We stand ready to support this Committee and the NWIRP agencies in achieving shared goals of better understanding windstorms and assessing and reducing their impacts.” The Congressionally-established National Institute of Building Sciences found that adopting the 2018 International Building Code and International Residential Code, which govern commercial and residential construction and renovations, provided \$10 in mitigation benefits against hurricane winds for every \$1 invested. [Click here to read the full story](#).

Defense legislation leverages a model maintenance code to improve conditions in military housing

Congress recently passed and the President signed into law the House-passed National Defense Authorization Act (NDAA) for fiscal year 2020, which authorizes funding and policies for U.S. Department of Defense (DOD) programs and requires that privatized military housing meet or exceed requirements set by a nationally recognized, consensus-based, model property maintenance code, such as the International Property Maintenance Code (IPMC). Separately, DOD recently updated its building code, the Unified Facilities Criteria (UFC), to use the 2018 International Building Code, 2018 International Existing Building Code and 2018 International Plumbing Code. The UFC had previously required using the 2015 versions of these codes. The UFC establishes common requirements for DOD construction activities, and addresses safety, functionality and durability. [Read more about these actions here](#).

International Code Council and RESNET create new voluntary certification for building safety industry

The International Code Council and the Residential Energy Services Network (RESNET) developed a new certification designation, the International Energy Conservation Code (IECC)/Home Energy Rating System (HERS) Compliance Specialist. This certification combines the energy code knowledge of code officials with the energy efficiency knowledge of HERS Raters to identify experts in energy plan review and inspection. The credential leverages the strengths of both organizations to increase the number of qualified individuals available for evaluating energy code compliance and home energy performance. The IECC/HERS Compliance Specialist designation verifies competence in energy performance measurement and energy code proficiency. These certified specialists can supplement the work of jurisdictions facing resource constraints that affect their ability to conduct the necessary reviews. IECC/HERS Compliance Specialists may now be used for both code compliance and energy performance rating services. [Read more about this innovative program here](#).

Got Pulse? In Episode 23 features Mark Johnson interviewing ICC General Counsel on copyright issues

Executive Vice President & Director of Business Development Mark Johnson interviews Code Council General Counsel Mel Oncu about the International Codes and copyright issues. [Click here](#) to listen.

Upcoming from the [ICC Learning Center](#): Institutes, training, seminars, webinars, etc.

Online learning is available from the ICC Learning Center. Find course listings you'd like to attend in the [Learning Center](#) using the Search function. Single-day training events are an opportunity to focus on topics to ensure your code knowledge stays up to date, with some seminars offering a Virtual Classroom option so you can participate in the event from any location with an internet connection:

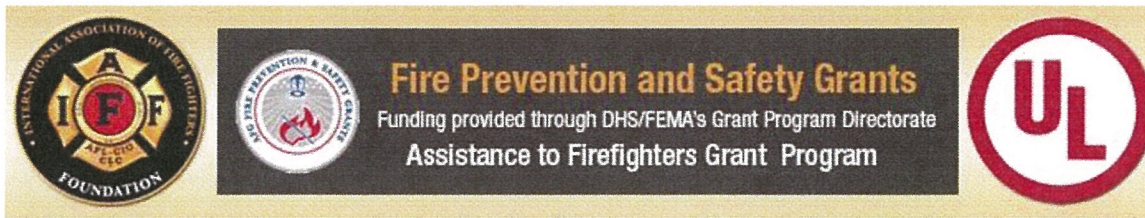
- January 9 - [2018 IBC® Means of Egress](#).
- January 13 - [Background and Overview](#) (New Mass Timber).
- January 22 - [Getting the Most of the IPMC®](#).
- January 23 - [2018 IBC Significant Changes](#).
- February 6 - [2018 IPC Essentials](#).
- February 12 - [2019 CRC Essentials](#).
- February 13 - [2019 CBC Essentials](#).
- February 20 - [2015 IRC® Essentials](#).
- February 24 - [Heights and Areas and Construction Fire Safety](#) (New Mass Timber).
- March 5 - [Legal Aspects of Code Administration](#).
- March 23 - [Fire Safety](#) (New Mass Timber).
- April 8 - [Fire and Connection Design and Special Inspection](#) (New Mass Timber).
- June 4 - [2018 IECC® Essentials](#).
- August 13 - [Essential Skills for Rising Leaders](#).
- August 18 - [Effective Communication](#).
- September 10 - [Formulating an Effective Code Enforcement Program](#).
- November 18 - [Essential Skills for Rising Leaders](#).

The following is the updated list of [ICC Institutes](#) and other training opportunities across the nation, many of which offer virtual options for those who cannot travel. Find course listings you'd like to attend in the [Learning Center](#) using the Search function:

- January 14 at Country Club Hills, Ill., Virtual, [Applying the Codes to Cannabis Facilities](#).
- January 14-16 in Brea, Calif., [Principles of Building Safety Institute](#).
- January 22 at Salt Lake City, Utah, [2018 IPC®, IMC® / IFGC® Significant Changes](#).
- January 27-30 at Oakland, Calif., [Code Official Institute](#).
- February 3-7 at Chaska, Minn., [The Upper Great Plains Region III Educational Institute](#).
- February 4 at Country Club Hills, Ill., [2018 IBC and IFC® Fire Protection Systems](#).
- February 13 at Brea, Calif., [Essential Skills for Rising Leaders](#).
- February 24-26 at Myrtle Beach, S.C., [Fire & Life Safety Institute](#).
- February 27 at Brea, Calif., [2015 IBC Special Topics - Day 1](#).
- February 28 at Brea, Calif., [2015 IBC Special Topics - Day 2](#).
- March 5 at Brea, Calif., [2018 IWUIC® Overview](#).
- March 9-13 at Las Vegas, [EduCode 2020](#).
- March 18-19 at Atlanta, Ga., and Virtual, [Permit Tech Institute](#).
- March 24 at Country Club Hills, Ill., [Additional Training on Mass Timber Construction includes the Mass Timber Building and the IBC® Seminar](#).
- March 30-April 3, Austin, Texas, [2015 Residential Building Inspection Institute](#).
- June 3 at Country Club Hills, Ill., [Essential Skills for Rising Leaders](#).
- June 24 at Oakland, Calif., Virtual, [2019 CRC Essentials](#).
- June 25 at Oakland, Calif., Virtual [2019 CBC Essentials](#).
- August 13 at Brea, Calif., Virtual, [2019 CRC Essentials](#).
- August 14 at Brea, Calif., Virtual, [2019 CBC Essentials](#).
- August 19 at Oakland, Calif., [Complaint Management from Start to Finish](#).

Certification Test Academies feature interactive and question-based review for the exam. Students will receive a voucher to take the exam at a later date. Upcoming opportunities:

- Available daily online, [2015 Permit Technician 14 Study Guide](#).
- Available daily online, [IRC® Online Study Guide for Residential Building Inspectors B1](#).



The [IAFF Foundation Burn Fund](#) and UL are collaborating to present several topics at the Meeting the Safety Challenges of the Future Built Environment Forum January 13-14, 2020, in Sacramento, California.

This event is an opportunity to network with business and industry leaders, discuss emerging issues and concerns in the fire service and provide input on efforts to ensure future technologies meet desired building performance levels.

Topics include:

- [Flammable Refrigerants](#)
- [FSRI Firefighter Safety Research Institute](#) (FSRI)
- [Smoke Alarms](#)

Make plans to attend - Arrival date is Sunday, January 12 and departure is Wednesday, January 15.

Meeting the Safety Challenges of the Future Built Environment Forum

January 13-14, 2020
Rancho Cordova Hall
2729 Prospect Park Drive
Rancho Cordova, CA 95670

Breakfast and lunch is provided by IAFF and UL on January 13-14.

Hotel Information

Courtyard Sacramento Rancho Cordova
10683 White Rock Road
Rancho Cordova, CA 95670

Registration and Hotel: \$95.00 per night, book prior to December 31, 2019

<https://connect.ul.com/meeting-challenges-of-built-environment-sacramento.html#meetingagenda>

For more information contact:

Tom Flamm
(202) 824-8620
tflamm@iaff.org

Sean DeCrane
Sean.DeCrane@ul.com



Meeting the Safety Challenges of the Future Built Environment

Rancho Cordova Hall

Sacramento, CA

January 13 – 14, 2020

There are numerous factors driving building design and construction innovation. Building Performance is a major factor, but the intended performance of the building can have several influences. These influences drive the desired outcome in building design.

In today's environment two influences in building design include Sustainability and Energy Conservation. Supporters of Sustainable Construction have driven interest in creating greater interest in expanding the use of engineered wood products as structural members. Recently the International Code Council developed the 2021 Edition of the Building Code and ratified the permitting of Mass Timber Buildings up to eighteen stories. Do we have sufficient testing and data to support this increase in permitted heights?

To drive Energy Conservation, developers and building owner have utilized insulated panels on the exterior of their buildings. The Standards regulating these exterior panels are varied internationally. While a couple of major façade fires have garnered public attention, there have been numerous fires internationally involving combustible facades once thought safe. Do we need a single Standard that can be applied internationally?

To meet the demands of Sustainability with greater efficiency many building owners and managers are turning to developing energy storage technologies that deploy an Electro-chemical base to increase the energy density capabilities of their on-site Battery Energy Storage System. In many cases, to avoid previous flooding conditions, these systems are being proposed for above ground installation in occupied buildings. Can these battery systems be deployed safely in occupied buildings? What would occur should a failure happen within the battery system or if the battery system is damaged? Would the occupants be at risk? Can the responding fire fighters safely bring the event to a successful conclusion?

The Goal of this Symposium is to discuss and identify:

- **Knowledge gaps,**
- **Areas of safety concerns**
- **Potential collaborative efforts to address these gaps and concerns.**

Agenda

Sunday January 12, 2020		
5:30 pm – 8:00 pm	Networking Reception	TBD
Monday January 13, 2020		
8:00 am	Registration - Breakfast	Rancho Cordova Hall
8:30 am	Welcome	Frank Lima IAFF DVP, UL Rep
Session 1 Tall Mass Timber Buildings (Moderator: Bob James)		
9:00 am – 10:30 am	The ICC TWB Ad Hoc Committee Testing	Ray O'Brocki, AWC
	Ascent Timber Highrise Project	Jason Korb, Korb & Associates Architects Unconfirmed
	US Testing and Code Modifications – A Fire Fighter Safety Perspective	Sean DeCrane, Manager Industry Relations, UL
10:30 am – 10:45 am	Break	
10:45 am – 12:00 pm	Panel Discussion of Presenters/Guests <ul style="list-style-type: none"> Erich Rhoden, Milwaukee FD, 	Bob James, Moderator
12:00 pm – 12:45 pm	Lunch	Provided on-site
Session 2 Energy Storage Systems (Moderator: Bob James)		
12:45 pm – 2:15 pm	Industry Perspectives - ESS	Kevin Fok, LG Chem
	A Fire Department Response	Paul Rogers, FDNY (Ret)
	Thermal Runaway and Fire Propagation Using UL 9540A	Adam Barowy, UL
2:15 pm – 2:25 pm	Break	
2:25 pm – 3:40 pm	Panel Discussion of Speakers/Guests <ul style="list-style-type: none"> Chief Tom Abbott, Surprise, AZ Fire Department Chief Bobby Ruiz, Peoria, AZ Fire Department 	Bob James, Moderator
3:40 pm – 4:30 pm	Fire Fighter Safety Research Institute	Sean DeCrane, UL LLC
	Smoke Alarm Update/Close Before You Doze Occupational Health Management	Melinda, UL LLC
5:30 pm – 9:00 pm	Group Networking Meal	California Automobile Museum

Tuesday, January 14, 2020		
Session 3 Low GWP (Flammable) Refrigerants (Moderator: Bob James)		
8:00 am	Registration – Breakfast	Rancho Cordova Hall
8:30 am – 10:00 am	GWP Flammable Refrigerants and the Fire Service	Jim Dominik, Illinois Fire Chiefs Association
	GWP Flammable Refrigerant Standard Changes	Mark Skierkiewicz, UL
	Safe Transition to Low GWP Refrigerants	Richard Lord, Sr. Technical Fellow, Carrier Corporation AHRI Safe Refrigerant Transition Task Force Speakers Bureau
10:00 am – 10:15 am	Break	
10:15 am – 11:30 pm	Panel Discussion of Presenters/Guests <ul style="list-style-type: none"> • Brian Rodgers, UL • Helen Walter-Terrinoni, AHRINET • Rick Swan, IAFF 	Bob James, Moderator
11:00 pm – 12:15 pm	Lunch	Provided On-site
12:15 pm – 1:15 pm	IAFF Burn Foundation Updates	Tom Flamm, IAFF
1:15 pm – 1:30 pm	Break	
Session 4 Building Facades (Moderator: Bob James)		
1:30 pm – 3:00 pm	Global Overview on Exterior Wall Flammability	Dwayne Sloan, UL
	Grenfell: A London Tragedy	George Healy, Deputy Chief; FDNY
	Exterior Wall Assemblies having Combustible Components: Use in Buildings at Great height-Unacceptable Risks	John Buckheit, Deputy Assistant Chief; FDNY
3:00 pm – 4:15 pm	Panel Discussion of Presenters/Guests	Bob James, UL Moderator
4:15 pm	Adjourn	

***The above schedule may be subject to change.**

Panel discussions would be led by a selected Moderator who can solicit questions from the audience for the panelists with the capability of keeping the discussion focused and supplementing when required. We would gather the feedback to develop steps forward for UL and industry.

Target Attendees: (100 approximately)

- Fire Officials
- Building Officials
- Architects
- Insurance and Underwriters
- Designers

Topics:

Building Façade Systems:

Modern architecture has moved beyond traditional concrete skyscrapers. New modern designs incorporate the artistic talents of the designers and meet the customers desire to identify themselves with individualistic structures.

Energy codes also drive the incorporation of design features intended to conserve energy use in a building for all-seasons. There are also environmental challenges in various regions of the world where structures must withstand wind, rain, snow or extreme changes in the environment.

These design challenges have led to the use of artificial exterior systems known as facades since they serve purposes other than structural load bearing purposes. To accomplish these goals designers, contractors and industry have created multiple options to meet the demands. Unfortunately, a number of these designs have developed weaknesses when subjected to fire conditions.

The goal of our seminar will be to address the various test standards in use throughout the world and potentially identify a pathway forward to developing, or identifying, one singular standard that manufactures must meet as it applies to fire conditions. This would provide consistency of design and performance world-wide.

Tall Wood Buildings:

In recent years the idea of building structures to greater heights utilizing engineered timber products has gain traction. Recently we have seen structures completed that are eighteen stories in height. There are multiple efforts world-wide to increase the use of this form of construction utilizing Cross-Laminated Timber products.

The proposed session will review current activities and efforts, including in the United States where the Code Development Committee recently approved buildings up to eighteen stories.

We will review current testing, performance of structural components and the various concerns. We will also attempt to establish a consensus pathway forward that provides for design flexibility and occupant and fire fighter safety.

Battery Energy Storage Systems:

In recent years we have experienced a growing desire to utilize high-density Battery Energy Storage Systems in occupied buildings. The significant amount of potential energy has raised safety questions especially concerning fire safety.

We will review the development of UL 9540A and the potential changes to the Safety Standards regarding Battery Energy storage Systems. We will discuss the potential knowledge gaps and concerns surrounding the expanded use of high-density battery systems in occupied buildings.

Firefighter Safety Research Institute:

UL Firefighter Safety Research Institute (FSRI) advances fire research knowledge and develops cutting edge, practical fire service education aimed at helping firefighters stay safe while more effectively protecting people and property. Working in partnership with the fire service, research departments, and agencies, UL FSRI executes firefighter research and makes the results widely available to the global fire community. With a team of pioneering experts and access to UL's leading infrastructure, equipment, and vast knowledge and insights, UL FSRI conducts and disseminates research and training programs focused on the changing dynamics of residential, commercial, and industrial fires and the impact they have on strategies and tactics throughout the fire service

Low GWP (Flammable) Refrigerants:

Due to environmental concerns, the selection of refrigerants for heating, ventilation, air conditioning and refrigeration (HVAC/R) systems has become significantly more complicated. Hydrofluorocarbons (HFCs) were originally introduced as a replacement for ozone-depleting chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs). HFCs, however, are greenhouse gases and subject to use restrictions in most countries. As a result, the industry has turned its attention to refrigerants considered to have a low global warming potential (GWP).

Before 1990, most refrigerants were considered non-flammable, but in the late 1980s and early 1990s concerns about the ozone layer and the environment caused the industry to begin transitioning away from traditional refrigerants and toward lower GWP alternatives, which tend to have higher flammability characteristics.

The air conditioning and refrigeration industry has been actively working to address this issue since 2006, by developing a new class of refrigerants, known as A2L refrigerants to meet the lower GWP regulations. While having lower flammability characteristics as compared to traditional refrigerants, A2L refrigerants are much harder to ignite and are much less flammable than A3 hydrocarbon refrigerants, such as R290 (propane).

With the development of these new A2L refrigerants and the increasing charge limits in commercial and household products the Fire Service is asking, "How does this impact the safety of the occupants and our members who may be operating in structures with products containing A2L refrigerants?"

This Symposium will bring together industry representatives, researchers and members of the fire service to discuss current safety requirements, testing that has been conducted, and potential safety concerns, with an emphasis on developing collaborative efforts to balance environmental, product, and fire safety.