



December 3, 2019 Meeting Minutes

Redwood Empire Association of Code Officials

1007-B West College Avenue # 326 Santa Rosa, CA 95401

The December 3rd meeting was held at Cattleman's in Petaluma

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

The meeting was called to order at 12:09 pm by Charles Lucas, which was followed by the pledge of allegiance.

2. SELF INTRODUCTIONS (Officers, Guests, Members)

There were 29 members and guests in attendance.

3. APPROVAL OF MINUTES -

A motion to approve the minutes was made by Mike Enright and Doug Hughes seconded, all approved, no opposed.

4. OFFICERS REPORTS

President: Charles Lucas – No report, the officers did not meet this month.

Vice President: Jay Bradford – Thanked Charles for his year of service

Secretary: David Willoughby – Verified that the November bank statement is consistent and accurate with the Treasure's upcoming monthly report.

Treasurer: Steve Buffenbarger- Checking account report for the month of October:

Checking beginning balance: \$25,970.39

Deposits: \$2713.14 – membership dues and lunch, seminar income, interest.

Debits and Checks: \$726.08 – membership lunch and reimbursement.

Checking ending balance: \$27,957.45

Also prepared and passed out to the membership the Annual Business Meeting Account Balances report and a draft budget for 2020.

Past President: Tony Piazza – No report

5. LIAISON REPORTS

AIARE: No Report

CSI: Christian Holbrook: Christian and Alex Daddow were not present. No report.

SCFPO: Glenn Schainblatt: Devin Gambonini from Petaluma Fire and SCFPO gave the report and said that most of the jurisdictions are wrapping up their ordinances for the upcoming new code adoption. 2 new legislations coming up are AB 178 which gives exceptions for various requirements to victims of recent wildfires. AB 38 is the second and will require enforcement of the fire safety clearance in Very High Fire Severity Zones within the SRA and LRA areas within 120 days of home sales. Next meeting is December 18th and will be the end of the year luncheon. Officer installation will be in January.

ICC: Chris Ochoa: Chris mentioned that the online governmental consensus voting deadline is coming up this week. Something that came out of the conference in Las Vegas is a new ICC App for the phone and a 2020 – 2025 ICC Vision Plan that you can look at on the website. CBSC has several openings they are trying to fill.

CBOAC: Glenn Schainblatt: Glen stated that they are moving forward with the annual conference and business meeting at Morro Bay on May 3rd to 7th. The program will consist of State and agency updates, FEMA has committed to a 4-hour presentation (flood plain managers will get credit for the class). You can make reservations online for the conference. Eric Seabrook made a motion to sponsor the CBOAC ABM this year at the Premiere level for a cost of \$1,000, Jay Bradford seconded and all approved, no opposed. Sponsorship at the Premiere level enables a free registration for the ABM, also included is free advertisement of REACO logo on the CBOAC website and conference material. We will determine who will use the free registration at a future meeting.

CALBO: Brad Wungluck: Not present. Chris Ochoa mentioned that Ed Week training in Burlingame coming up December 16th – 19th.

CEC: Amie Brousseau: Amie mentioned that they are busy getting all the forms ready for the new code. She will be at the CALBO Ed Week in Burlingame this month. Mike Enright asked about the Code Adoption process for the CEC and Amie said it is a public process and can take 2 to 3 months to complete. Once the CEC gives its approval Steve Buffenbarger asked if they will notify the CBSC or does the local jurisdiction need to notify the CBSC. Amie said she was not sure but would check on.

IAEI: Doug Hughes: Doug mentioned that the free Electrical Code (NFPA 70) held November 20th in Petaluma was a success and had a good turnout, about 75 people. On January 29th Northern California IAEI Chapter officers Installation banquet will be held in South San Francisco this year. December 5th and 6th is a training on the residential and commercial provisions of the Electrical Code that incorporates the 2019 changes.

BayREN: Carolyn Glanton: Christine Condon reported they are coordinating with the education committee to get trainings scheduled on the new codes which will start happening in January. The BayREN trainings will be in Cloverdale and Santa Rosa. Also, working with Energy Code Ace to get full day trainings. Refer to their website for more information at <http://sonomacounty.ca.gov/General-Services/Energy-and-Sustainability/>. Mike Enright mentioned that there are energy code trainings offered thru PG&E as well. Martin Dodd is the instructor in many cases and is very good. Glenn Schainblatt mentioned that Sonoma Clean Power is also offering help to jurisdictions. Doug Hughes mentioned that storage battery system requirements are available at the Sustainable Energy Action Committee (SEAC) website. The link to this page is <https://www.seacgroup.org/s6-storage-battery-requirements>.

ICC Region 1: Glenn Schainblatt: Charles attended the phone meeting and reported that there were new officers that have just taken their seats, otherwise there was not much mentioned.

6. **COMMITTEE REPORTS**

Education Committee: Eric Seabrook mentioned that there is a 2 day electrical residential and commercial inspection class by Mike Stone on December 5th and 6th (2019 CEC) later this week. The CA Fire Chiefs Association and NorCal FPO are putting on a 3-day training, February 4 – 6 in Santa Rosa at the North Coast Builders Exchange, on the 2019 CBC, CFC updates, and means of egress. All of these trainings can be found on the REACO website on the Home page or in the Calendar of Events at <https://www.reacoicc.org/>. Charles mentioned that Kevin Scheumann would be interested in volunteering on the Education Committee. Eric welcomed him and said he would have plenty to do.

Web-Site Committee: Board members are continuing to maintain the site. Charles reminded us that ICC is providing website hosting and maintenance for \$50/month, something to think about. Chris Ochoa described the ICC website program being offered.

Audit Committee: Charles mentioned that we need to get ready to fill this for the 2019 year. He asked if there is anyone interested in being on the committee. Mike Renner offered to volunteer some of his staff.

Nominations Committee: Past Presidents present at the meeting comprise the committee (Tony Piazza, Doug Hughes, Glenn Schainblatt, and Eric Seabrook) The committee presented the nominated Officers

7. **PROGRAM**

Installation of Officers. Eric Seabrook from the Nominations Committee introduced the nominated officers as follows:

Past President – Charles Lucas
President – Jay Bradford
Vice President – David Willoughby
Secretary – Steve Neely
Treasurer – Steve Buffenbarger

Charles asked if there were any other nominations from the floor. No one spoke up. Mike Enright made a motion to adopt the slate of candidates as put forth by the nominations committee by a unanimous voice proclamation. This was seconded and all in favor, no opposed. Chris Ochoa swore in the new officers, pictures were taken, pins were given to the new Past President and the President, the gavel was passed from Charles

to Jay, and an ICC medallion was presented to the old Past President for their service. The Officers took over their new roles from this point forward during the meeting.

8. CORRESPONDENCE AND ANNOUNCEMENTS

No items brought forward.

9. NEW BUSINESS

Mike Enright mentioned that today was the 2nd reading of the City of Santa Rosa's Code Adoption Ordinance includes the all-electric Reach Code without exceptions. This should become effective within a few months considering approval by the CEC and no lawsuits. Glenn Schainblatt is retiring, his last day is December 31, 2019. Eric Seabrook made a motion to make Glenn an honorary member of REACO in perpetuity, Doug Hughes seconded the motion. Jay checked the Bylaws and there was no requirement to retire before being made an honorary member. A vote was made, all in favor and no opposed. Glenn expressed his appreciation of the organization and all those who have served with him.

10. OLD BUSINESS

No items brought forward.

11. LEGISLATIVE NEWS

Jay mentioned that there is a host of new legislation including on ADU's and JDU's that will become effective starting January 1st. You can find information on this at both the CALBO and CBOAC websites.

12. CODE ISSUES

No new issues brought forward.

13. ADJOURNMENT

The meeting was adjourned at 1:58 pm by Jay Bradford and cake and the annual raffle occurred after this.

**The next meeting will be held on January 7th, 2020 at Cattleman's Steakhouse in Petaluma.
Registration is \$25, lunch is provided. The meeting starts at 12 noon.**



December 2019 ICC Announcements

Susan Dowty
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ICC Calendar of Upcoming Dates:

- ~Nov 19 - Dec 6 Online Governmental Consensus Voting for Group B Public Comments
- Dec 18 10 am PT, [Premium Access and Online Digital Library webinar](#)
- Jan 14-16 [Principles of Building Safety Institute](#) at ICC in Brea, CA
- Feb 13 [Essential Skills for Rising Leaders](#) 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 3-7 [CBOAC Annual Meeting](#), Morro Bay, CA
- June 8 – 11 Chapter Leadership Academy, Denver, CO
- Oct 11 -14 [ICC's 2020 Annual Conference](#) in St. Louis, MO

NOTES:

Click [here](#) for ICC's Government Relations Department Chapter Monthly Update - December 2019

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

Listen to the latest ICC Pulse Podcast: In Episode 22, Dame Judith Hackitt discusses research of the infamous Grenfell Tower. [Click here](#) to listen.

The publication [“Applying the Codes to Cannabis Facilities”](#) is now available.

Read about ICC's newly installed 2019-20 [Board of Directors](#).

Check out the [report](#) from the ICC and CALBO July 25, 2019 Seismic Roundtable.

Download the new [“myICC” app](#).

Check out this new resource for: [Reducing Flood Losses through the International Codes](#).

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](#)

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 - December 2019



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

Online voting on Group B code proposals ends at midnight, Pacific Time, on Friday, December 6

The Online Governmental Consensus Vote (OGCV) is now open, which means this is your opportunity to vote and have your voice be heard on the codes we use. All validated voters are urged to log into [cdpACCESS](#) and vote on all the codes. The code development process needs all of your voices to be heard on these proposals. The OGCV closes at 12 midnight Pacific Time on December 6, 2019. David Spencer, CBO, building official for Chelan County, Wash., and International Code Council Board Director speaks to the [importance of the voting process](#) and how to get involved with cdpACCESS. "You should look at the things that are important to you, your jurisdiction, even your chapter and make the appropriate votes through cdpACCESS."

- Need some help navigating the process online? Check out this easy-to-follow [video tutorial](#) on how to vote in the OGCV through cdpACCESS on YouTube. [Text instructions](#) are also available.
- The [2019 Group B Public Comment Hearing results](#) from the meeting in Las Vegas, Nev., are now available. The [hearing videos](#) are available online anytime.

The leaders of all six ICC Membership Councils plus the Major Jurisdiction Committee signed resolutions urging all ICC members who are validated to vote on the Group B proposals to do so.

New Code Council Chapter benefit provides website hosting service to enhance communications

There's a new chapter benefit – a modern website hosting service that you can personalize with your specific information and resources. The Code Council has partnered with KWSM, a premier digital marketing agency, to work with you to personalize your template. KWSM will also provide regular maintenance to the website and minor changes as needed. Based on a survey of chapter presidents earlier this year, we know that you're excited to jump in and use this new feature. To learn more, please see the following:

- [Brochure about the process](#)
- Example website: <https://chaptersicc.wpengine.com>
- [Submission form](#)
- [Submission form instructions](#)

Please let us know if you have any questions by contacting Karla Higgs at khiggs@iccsafe.org or 1-888-ICC-SAFE x5268. You can also [read more here](#).

Michelle Britt, Code Council's Director of Energy Programs, takes on questions about 2018 IECC

The Building Safety Journal recently featured a Question/Answer article about the International Energy Conservation Code, provided by Michelle Britt, Director of Energy Programs. The column we addresses typical questions asked of the Code Council's technical support team. As always, code opinions issued by International Code Council staff are based on published Code Council codes and do not include local, state or federal codes; policies; or amendments. [Click to read the column](#). The IECC is also the subject of another white paper, titled "[The Important Role of Energy Codes in Achieving Resilience](#)." The document follows another white paper issued in October, titled "[Resilience Contributions of the International Building Code](#)." The conclusion defines the value of energy codes to communities and building owners: "From their initial creation through today, building energy codes have played a major role in reducing the impacts of adverse events. Before, during and after disasters building energy codes influence both individual and community capacity to withstand and bounce back from such events. As policymakers consider approaches that enhance resilience, energy codes should be a cornerstone."

Deadline extended to December 15 to join ICC Exam Development Committee on Green Construction

If you have experience with the IgCC and ASHRAE 189.1 and are passionate about commercial green construction, you now have the chance to shape the development of a new ICC National Certification exam. But hurry – the closing date for receipt of application has been extended to **December 15, 2019**. Immediate openings are available on an Exam Development Committee (EDC) that will develop an exam based on the International Green Construction Code (IgCC) that now includes content from ASHRAE

189.1. This soon-to-be-named exam will cover current construction practices for green building professionals, including designers, architects, contractors, and more. [Click to read more](#) or contact us at 888-422-7233, ext. 5524 or at askac@iccsafe.org.

FEMA issues 2019 National Preparedness Report highlights enforcement of most up-to-date codes

The just published National Preparedness Report highlights successes and challenges across FEMA's five mission areas, including the Agency's assessment that: "Many states and territories still have outdated building codes despite evidence that updating and enforcing codes lead to mitigation-related savings." The Report goes on to note that "upfront investments in stronger buildings can help communities save money and recover more quickly when disasters strike." The report covers the diverse range of disaster preparedness challenges, from terrorism and active shooter incidents, to cyber attacks, to natural disasters, as well as how stakeholders across the nation are using preparedness grant funding to invest in preparedness improvements. [Click here for the](#) Executive Summary and [click here for the full report](#).

U.S. House of Representatives passes bill requiring disaster recovery funds adhere to latest codes

The U.S. House of Representatives recently passed the Reforming Disaster Recovery Act (H.R. 3702), requiring that new construction and rehabilitation funded through the U.S. Department of Housing and Urban Development's Community Development Block Grant disaster recovery program (CDBG-DR) adhere to the latest building codes. The International Code Council worked closely with House leadership on the bill. The CDBG-DR program provides flexible funding to states and local governments to address unmet recovery needs related to housing, infrastructure and economic revitalization, focusing assistance toward low- and moderate-income communities. CDBG-DR is the largest post-disaster recovery program not operated by the Federal Emergency Management Agency (FEMA). Congress provided \$35.4 billion for the program in response to the damage caused by Hurricanes Maria, Irma and Harvey. Studies consistently show that adopting and applying up to date codes is one of the most effective mitigation measures a community can undertake, but [according to FEMA](#), two-thirds of communities facing hazard risk have not adopted hazard resistant codes. This means that the safety and resilience requirements for federally supported reconstruction investments currently varies considerably. The Reforming Disaster Recovery Act addresses this challenge by establishing minimum standards for post-disaster rebuilding, ensuring all communities and their residents are provided with the same protections regardless of where they are located. The bill couples the code requirement with additional funding to train building officials, fire officials and the construction industry on the latest building codes. [Click to read more](#).

House subcommittees hear testimony to reauthorize National Windstorm Impact Reduction Program

Just now, the U.S. House of Representatives' Subcommittees on Research and Technology and Environment held a hearing on the National Windstorm Impact Reduction Program (NWIRP). The purpose of the program is to measurably reduce the loss of life and property from windstorms through an improved understanding of risks and impact. Ryan Colker, the Code Council's Vice President of Innovation and Executive Director of the Alliance for National and Community Resilience (ANCR), testified about the importance of reauthorizing this program with enough funding and longevity to meet its goals. Other witnesses included Dr. Scott Weaver, Director of the National Windstorm Impact Reduction Program at NIST; Major General Lee Tafanelli, Kansas Adjutant General, Director of Kansas Homeland Security, and Director of Kansas Emergency Management; and Dr. Delong Zuo, Associate Professor of Civil Engineering at National Wind Institute of Texas Tech University. [Read more here](#).

Inaugural Emory R. Rodgers Fellowship winner is building and fire inspector Chris Landreth

Jumping in with both feet is a fundamental character trait displayed by Chris Landreth, recipient of the first annual [Emory R. Rodgers Leadership in Building Safety Fellowship](#) awarded by the Code Council. As the first Rodgers Fellow, Landreth will be using his award to attend a two-week intensive program at the Massachusetts Institute of Technology's prestigious Sloan School of Management to obtain an executive certificate in management and leadership. "I've always thought that I had an upward trajectory, so I keep looking for opportunities to improve my chances of continuing that upward trajectory," Landreth, Supervising Building and Fire Inspector for the City of Tracy, Calif., said of why he applied for the

fellowship. "I've only been in the building safety industry for about five years now. I have been trying to take every opportunity I can to improve myself and where my career is heading." [Click to read more.](#)

ICC's Past Presiding Officers offer special training webinar series to develop leadership qualities

If you aspire to hold a leadership role, have recently assumed one, or want to refresh your leadership skills, this leadership training has something for you. The Past Presiding Officers developed the series to help advance your career, skills and mindset to become the most effective leader you can be while developing a plan to get even better. Each webinar is \$49 per Member:

- [Effective Leadership | January 8](#)
- [Flexing Your Leadership Muscles | February 26](#)
- [Mastering the Art of Mentorship | March 19](#)
- [Making a Difference | April 16](#)
- [Get Connected | May 21](#)
- [Say What You Mean and Mean What You Say | June 24](#)
- [The Courageous Leader | July 16](#)
- [Challenging Discussions | August 11](#)
- [Building Your Bench | September 17](#)
- [Public Speaking | October 21](#)
- [Coaching for Success | November 19](#)
- [Public Speaking for the Code Official | December 21](#)

The [Learning Center](#) at the International Code Council (ICC) provides additional training to building safety, fire, design, and construction professionals on how best to apply and enforce the codes. Stay on the leading edge of the industry while earning valuable CEUs and developing your professional skills.

Code Council opens its first overseas office in Dubai in strategic move to expand in important markets

ICC has established its first overseas office in Dubai to increase its presence in the international marketplace. The Dubai office provides the opportunity to build on the Code Council's more than 25 years of work in building safety in the region. It will provide the organization with a local presence with partners and stakeholders and identify additional opportunities to provide products and services to building safety professionals in the region. "The Code Council has always been dedicated to promoting resiliency and safety in the built environment on a global scale," said Judy Zakreski, the Code Council's Vice President of Global Services. "The Dubai office, our first outside the United States, is an exciting step forward in our mission of expanding delivery of products and services internationally."

Dominic Sims' views on building safety and community resiliency are focus of Birmingham interview

An executive profile on the Code Council's Chief Executive Officer Dominic Sims, CBO, in the Birmingham Business Journal discusses his views on the impact of building safety codes and standards in addressing natural disasters, the opportunities of educating communities about building safer buildings, and the priority of increasing building safety while reducing regulatory burdens. "With each and every hurricane, there's more and more evidence that newer codes and standards are having a real effect," Sims says.

[Read more from the Birmingham Business Journal news feature.](#)

Code Council standards are under development by committees in series of public meetings

The International Code Council references almost 1,300 standards in its International Codes and has been re-accredited for its American National Standards Institute (ANSI) standard development activities under the ICC Consensus Procedures. The Code Council also develops a number of codes and standards, including mechanical, plumbing, structural, resilience, accessibility and green standards, and is accredited by ANSI as a standards developer. [Click here to see the list of Code Council standards](#) that are current, being revised or are under development. [Click here to learn more](#) about the standard development process as well as standard development policy and procedures and Standard Development and Consensus Committees.

ICC-ES publishes report on dowel-laminated timber (DLT) deck panels for roof and floor construction

ICC Evaluation Service (ICC-ES) recently announced publication of ICC ESR-4069 Evaluation Report for StructureCraft Dowellam™ dowel-laminated timber (DLT) deck panels for roof and floor construction.

DowellLam is the first all-wood mechanically laminated mass timber panel in North America, providing architects, engineers and developers greater versatility in designing with mass timber. DowellLam deck mass timber panels are manufactured from dimension lumber mechanically laminated utilizing wood dowels. The panels provide optimal structural performance, carbon sequestration and the natural aesthetic of wood (where exposed) in the built environment. [Click here to read more.](#)

Seven recognized at Annual Conference as new Code Council Honorary Members

International Code Council members awarded Honorary Memberships to seven distinguished individuals for demonstrating outstanding service to the Code Council or one of the association's legacy model code organizations. Dwayne Garriss, Jerry Mallory, Fulton Cochran, Dennis Hirsch, Mike Metcalf, Sarah Rice, and Richard Witt were awarded Honorary Memberships for demonstrating outstanding service to the Code Council. [Click here to read more.](#)

Got Pulse? In Episode 22, Dame Judith Hackitt discusses research of the infamous Grenfell Tower fire. Code Council Vice President of Global Services [Judy Zakreski](#) met with world renowned chemical engineer [Dame Judith Hackitt](#) to discuss the Grenfell Tower fire in London in 2017, the Hackitt Report and UK Regulatory System. [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:

- **December 4 - [Essential Skills for Rising Leaders.](#)**
- **December 5 - [Design for Fire Resistance Using the International Building Code®.](#)**
- **December 10 - Leadership Webinar Series [Public Speaking for the Code Official.](#)**
- **December 10 - [Engineered Masonry Veneers.](#)**
- **December 11 - 2015 IMC® Webinar Series [Refrigeration, Fuel Oil Piping and Storage and Solar Systems.](#)**
- **December 12 - [Mass Timber Structural Design: Engineering Modern Timber Structures.](#)**
- **December 13 – [2018 IPC® Design, Installation and Inspection Principles.](#)**
- **December 13 - [2018 IPMC® Overview.](#)**
- **December 16 - [What's New in 2015/2018 for Mass Timber Construction.](#)**
- **December 19 - [Deep Foundations - Overview and Design Example.](#)**
- **January 13 - [Background and Overview](#) (New Mass Timber).**
- **February 24 - [Heights and Areas and Construction Fire Safety](#) (New Mass Timber).**
- **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:

- **December 13 & 20 at Miami, Fla., [2018 IPMC® Overview.](#)**
- **January 14 at Country Club Hills, Ill., Virtual, [Applying the Codes to Cannabis Facilities.](#)**
- **January 22 at Salt Lake City, Utah, [2018 IPC®, IMC® / IFGC® Significant Changes.](#)**
- **February 3-7 at Chaska, Minn., [The Upper Great Plains Region III Educational Institute.](#)**
- **February 13 at Brea, Calif., [Essential Skills for Rising Leaders.](#)**
- **March 5 at Brea, Calif., [2018 IWUIC® Overview.](#)**
- **March 9–13 at Las Vegas, [EduCode 2020.](#)**

- **March 24** in Chicago, [Additional Training on Mass Timber Construction includes the Mass Timber Building and the IBC® Seminar.](#)
- **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.](#)
- **December 9-12** at Las Vegas, Nev., [B2 - Commercial Building Inspector.](#)



REACO ICC Monthly Meeting
December 3, 2019

Efficiency Division Updates

- Business meeting on November 13: Commissioners approved the resolution to incorporate variable capacity heat pump (VCHP) computer algorithms into the Alternative Calculation Method and the residential Energy Code performance compliance software, and to approve associated field verification procedures for use in demonstrating compliance. The next business meeting is December 11. **Business Meetings Agendas and Minutes:** <https://www.energy.ca.gov/proceedings/business-meetings>
- New **Blueprint Newsletter, Issue 127, July - September 2019** is now available: <https://www.energy.ca.gov/newsroom/blueprint-newsletter>
- New NRCC smart forms for all nonresidential projects now available on the **2019 Energy Code webpage:** <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency>

Energy Standards Training and Events

- **Energy Commission training** upcoming dates and locations: www.energy.ca.gov/title24/orc/schedule_oe/index.php
 - 12/10: OJ Insulation, Azusa, CA – 2019 Energy Code QII Requirements
 - 12/12: Nevada County Contractors Association, Grass Valley – 2019 Energy Code
 - 12/16-12/19: CALBO Ed Week, Burlingame, CA - 2019 Energy Code, 2019 Submittal Requirements, exhibit booth
- **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>

8 Performance Method

8.1 Overview

This chapter explains the performance method of complying with the *2019 Building Energy Efficiency Standards* (Energy Standards). The method works by calculating an Energy Design Rating (EDR). The EDR is a score from 0 to 100, where 0 represents a building that has zero net energy consumption based on the time-dependent valuation ((TDV) energy consumption and 100 represents a building that is minimally compliant with the 2006 International Energy Conservation Code. This is the same criteria for a score of 100 for the National Home Energy Rating System (NatHERS). Approved programs calculate an EDR for the building (proposed efficiency) and compare it to the energy budget (standard efficiency). Approved compliance programs also calculate an EDR for proposed photovoltaic (PV)/demand flexibility and compare it to standard PV/flexibility budget.

The standard efficiency includes water heating, space heating, space cooling, indoor air quality (IAQ) fan energy, and solar generation. Energy use from lighting, kitchen appliances, and washers/dryers is not eligible to be traded off.

The Energy Commission approved computer programs for compliance calculate space-conditioning and water-heating energy use in accordance with a set of rules. Modeling capabilities are in the *2019 Residential ACM Reference Manual* (ACM Reference Manual). All software programs use the same compliance generation tool (California simulation engine [CSE]) to simulate the energy use, and the same report generator to create the certificate of compliance (CF1R), as the public domain program CBECC-Res. Vendors of approved software have the flexibility to create their own user interface, user documentation, and additional forms.

This method provides maximum flexibility to trade off the energy performance of different building components to achieve compliance. Making a building more efficient will lower utility bills and improve comfort.

The performance method is the most popular compliance method allowing builders the flexibility to optimize performance at the lowest cost. Each approved program is required to have a compliance supplement with information on the use of the software as specified in the *2019 ACM Approval Manual*.

A discussion of the performance method with additions and alterations is in Chapter 9.

8.2 What's New for 2019

8.2.1 Determining Compliance – Energy Design Rating (EDR)

The EDR has three components: 1. efficiency EDR, 2. PV/flexibility EDR, and 3. total EDR (also called final EDR). The efficiency EDR is based on the energy efficiency features of the building, including the envelope, HVAC, and hot water-heating features. The PV/flexibility EDR score captures the PV system, battery storage system, precooling strategy, and other demand responsive measures. The total EDR combines the efficiency EDR and PV/Flexibility EDR into a final score. The approved programs do not allow installing more PVs in exchange for less efficiency. However, if PVs are coupled with a battery storage system, a modest credit known as the self-utilization credit is available for tradeoff against

the efficiency features. Approved compliance programs allow installing more energy efficiency in exchange for a smaller PV system.

Compliance requires meeting two different criteria:

- Proposed efficiency EDR must be equal or less than standard efficiency EDR, and
- Total EDR (efficiency, PV, battery storage) must be equal or less than total standard EDR.

The efficiency EDR is the building's efficiency without any solar generation. The total EDR includes solar generation and any battery storage. This means the building must be energy efficient and it must generate enough energy to offset the electricity used to operate the building.

8.2.2 Major Changes Affecting Standard Efficiency

The standard design efficiency is based on prescriptive requirements. Two major changes to the standards are quality insulation installation (QII) and solar generation. Although not mandatory, performance compliance will be much more difficult to achieve without QII.

More information about the prescriptive solar electric generation Chapter 7 of this manual or the ACM Reference Manual.

8.2.3 New HERS Verification Requirements

Heat pumps will require verification of their capacity. Because the capacity affects the use of electric resistance back-up heating, a HERS Rater will verify the installed capacity meets or exceeds the capacities modeled for compliance. Software users can either enter the heat pump capacities (at both 47 and 17 degrees) or use an automatic sizing function. (Reference Appendix RA3.4.4.2.)

Whole house fans provide a significant compliance benefit in some climate zones. Software users will have three options, two of which require HERS Rater verification of airflow and watt draw: (1) specify a fan airflow, (2) select the default fan airflow required for prescriptive compliance with HERS verification, or (3) select the default fan airflow without HERS verification (the effectiveness of the whole house fan is derated by 7 percent). When verification is required, a HERS Rater will verify the watt draw and airflow rate. (Reference Appendix RA3.9.)

8.3 Compliance Basics

8.3.1 Compliance Process

Any approved computer program may be used to comply with the Energy Standards using the performance method. The following steps are an outline of the typical computer program procedure:

1. Collect all necessary data on each component.
 - a. For the building envelope, the area of each fenestration, wall, door, roof, ceiling and floor is needed. For each component, the applicable energy characteristics needs to be defined including U-factor, solar heat gain coefficients (SHGC), solar reflectance, and thermal mass values.
 - b. For HVAC systems, the type and efficiency of space conditioning equipment are required. For hydronic space heating, the specific water heater type and efficiency



COUNTY BUILDING OFFICIALS ASSOCIATION OF CALIFORNIA

Established 1963



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Dear REACO,

The County Building Officials Association of California (CBOAC) is preparing for our next Annual Business Meeting & Conference. **This year's event will be held at the Inn at Morro Bay from May 3rd through May 7th, 2020** and we are working hard to make this another successful event for all.

As you may know, CBOAC is a non-profit organization and we appreciate support from your organization to ensure that our annual events continue to be beneficial and enlightening.

On behalf of the County Building Officials Association of California, I would like to extend a formal invitation to you to participate in this year's event and to become one of CBOAC's valued sponsors. We would be honored to include REACO as one of our 56th Annual Conference sponsors.

A "Save the Date" flyer has been mailed out and is also featured on the CBOAC website. Once again, we will be providing great training and educational offerings which include notable presenters, roundtable discussions, State Agency reports, and multi-sponsored events. We are excited about our scenic location in Morro Bay and look forward to seeing you there.

Thank you for your consideration and for your generous support. We will make sure that REACO is featured on our website and recognized throughout the conference. For your convenience, we have attached sponsorship forms and information regarding sponsorship levels. Please also visit our website www.cboac.net for updated information.

Together, we can make the 56th Annual CBOAC conference an event to remember!

Respectfully,

Glenn Schainblatt,
2019-20 President, CBOAC
gschainblatt@cityofsebastopol.org

COUNTY BUILDING OFFICIALS ASSOCIATION OF CALIFORNIA

56th Annual Conference and Business Meeting

CBOAC offers unique opportunities for positive networking, increased recognition and potential new contacts and clients at this year's conference. Take advantage of our 2020 sponsorship program with multiple ways to put your organization out in front. Significant membership benefits are available with each level.

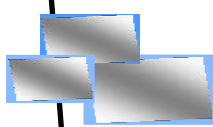


Don't Miss out on our
Sponsorship
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Annual Conference &
Business Meeting

May 3-May 7, 2020

Inn at Morro Bay
60 State Park Road
Morro Bay, CA 93442



Premiere \$1000 Sponsorship

Become one of several sponsors in helping host the entire annual conference. Your company or business would be highlighted with the following benefits:

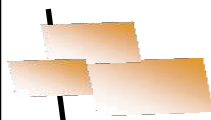
- ☒ *Exclusive exposure to statewide building safety professionals in an informal, casual atmosphere.*
- ☒ *Signage recognizing sponsorship.*
- ☒ *One (1) free registration to the conference...a **\$450 value!***
- ☒ *Free website advertisement space for one (1) year.*
- ☒ *Recognition in the conference program.*



Platinum \$750 Sponsorship

Become one of several sponsors in helping host the entire annual conference. Your company or business would be highlighted with the following benefits:

- ☒ *Exclusive exposure to statewide building safety professionals in an informal, casual atmosphere.*
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Gold \$500 Sponsorship

Sponsor several on-site events. Choices include the opening reception, President's Reception, and Break Sponsorships. Your company or business would be highlighted with the following benefits:

- ☒ *Exposure to statewide building safety professionals in an informal atmosphere.*
- ☒ *Signage with logo reception location recognizing sponsorship.*
- ☒ *Recognition in the conference program.*

Please complete the associated form for sponsorship participation. To take advantage of full sponsor benefits, your agreement, sponsorship and logo (EPS, AI, or high resolution PDF format) must be received by March 31, 2020



COUNTY BUILDING OFFICIALS ASSOCIATION OF CALIFORNIA

56th Annual Conference and Business Meeting

May 3 - May 7, 2020

Inn at Morro Bay

60 State Park Rd, Morro Bay, CA 93442



Application for Sponsorship

EMAIL COMPLETED FORM TO: crickettb@csgengr.com

OR, MAIL COMPLETED FORM TO:

CBOAC

c/o Crickett Brinkman

930 Fresno St.

Newman, CA 95360

CONTACT & COMPANY INFORMATION:



Name: _____ Title: _____

Jurisdiction/ Firm: _____

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Visit us at our website at cboac.net



REACO



Electrical Workshop – Residential and Commercial

This seminar will also prepare you for the 2019 CEC.

Class Synopsis: This course will cover the basics of both commercial and residential electrical inspections and plan check, including services, switchboards and panelboards, grounding and bonding, load calculations, wiring methods, lighting installations, electrical appliances and utilization equipment, motors, transformers and emergency systems. **Please bring your 2017 NEC or 2019 CEC**

EARN: 0.6 CEU's ...REACO is an ICC Preferred Provider # 1081 / course # 22220

COST: \$50.00 late registration \$60.00

CLASS DATES: Class is offered on two different days.

Sign in starts at 7:30 each day

Thursday, December 5, 2019 - 8:00am-4:30PM

Friday, December 6, 2019 - 8:00AM -4:30PM

WHERE: Petaluma Community Center / Lucchesi Park

320 N. Mc Dowell Blvd Petaluma, Ca. 94954

INSTRUCTOR: Mike Stone

Mike is the NEMA West Coast Field Representative. He is the alternate member representing NEMA on Code Making Panel 1 for the 2017 National Electrical Code. He also serves as Vice Chair of the Plumbing, Electrical, Mechanical and Energy Code Advisory Committee for the CA Building Standards Commission. Prior to his tenure with NEMA, he worked for over 25 years in California building departments at the County of Monterey and the Cities of Monterey, Salinas and as Building Official for the City of Watsonville. He holds seven ICC Certifications and is a Certified Access Specialist (CAsp). He has taught code classes at several CA Community Colleges and has been an IBEW electrical apprenticeship instructor. Mike is a member of ICC, IAEL, IBEW and NFPA, and is a Certified General Electrician in the State of California

REGISTRATION IS REQUIRED

Please RESERVE YOUR SPACE BY no later than Tuesday December 3rd to avoid late registration cost.

REGISTER and pay by credit or ATM card on the REACO website. Go to

<https://www.reacoicc.org/events-tickets>

Lunch (i.e. sandwiches, wraps, chips, fruit cookies and drinks) and AM and PM break snacks included.

QUESTIONS? please email Eric Seabrook eric@phillipsseabrook.com or Glenn Schainblatt gschainblatt@cityofsebastopol.org