

## AIASF COTE Monthly Meeting Minutes

**Meeting Date:** Tuesday, March 16, 2021; 12:30 PT Zoom Meeting

**Next Virtual Meeting: **Tuesday, April 20<sup>th</sup>, 2021 @ 12:30pm PT ZOOM MEETING WEB LINK HERE:****

<https://us02web.zoom.us/j/86595038333?pwd=dDIyYTNjcnRkU0JpSENsM1RucFRtdz09>

Meeting ID: 865 9503 8333 Pass Code: 361582

Or call in: +1 669 900 6833 US. Meeting ID: 865 9503 8333 Pass Code: 361582

Download the iCalendar(.ics) file to your calendar system [HERE](#).

**\*\*Action Items in red** are highlighted with double asterisks. *New Items* are in italics. Links underscored.

### ATTENDEES:

*Core Group: **Mark Kelly** | BAR (COTE Co-Chair); **Charlie Stott** (COTE Co-Chair)|Stott Arch; **Carla Dal Mas**|CADMA Arch; **Gail Napell**|Gensler*

***Anish Tilak**|RMI; **Anu Munshi**|Sundraft Energy; **Bjorn Myrum**|BRW; **Dave Edwards**|AIASV COTE; **Doug Speckhard**/BCJ; **Emily Gosack**/Jensen Arch; **Erin Feeney**|DBA; **Frank Bostram**|AIACA COTE; **Lori Jue**|Forell Elsesser SE; **Maggie Morrow**|Petersen Studio; **Steve Gross**|Interface Eng*

### DISCUSSION ITEMS:

#### 1. General Discussion:

##### a) **AIA National COTE Network Communications & Resources:**

- **The Mar/April 2021 COTE Newsletter** is live. Betsy Del Monte is the 2021 COTE Chair.
- **Quarterly Network Conference Calls:** 11am PT (2pm ET): Scheduled for February 9, May 11, August 10 & November 9, 2021 + Deep Dive conversations on various topics throughout the year. Contact April Ovens at AIA National to sign up: [aprilovens@aia.org](mailto:aprilovens@aia.org)
- ***AIA's Advocacy Comm*** (Update 3/16): *The AIA's top 2021 Govt Advocacy priorities are public building renovation requirements that meet 2021 IECC's Zero Code and embodied carbon targets per the Carbon Smart Materials Palette, in line with the "Build Back Better" infrastructure plan. Gail noted that AIA requests input on Shelter Act disaster mitigation tax credits, and the Clean Future Act, currently in draft form.*
- ***AIA's Resilience & Adaptation AG*** (Gail Napell Update 3/16): *The AG is working this year on improvements to the AIA "Design for Change" toolkit language, and the Architect's Guide to Bus. Continuity. The AIA Fundamentals of Resilient & Climate Adaptive Design is live!*

##### b) **AIA California COTE Network Communications & Resources:**

- **COTE CA:** Ongoing initiatives & efforts:
  - **Statewide COTE Network Call.** Contact Hillary Krek [hkrek@aicalifornia.org](mailto:hkrek@aicalifornia.org) to join.
  - **Education:** See online Climate Action Webinar Programs developed by AIACA.
  - **Highlights from 3/17 CA COTE Mtg.** COTE CA is:
    - Working to get a carbon component into CalGreen in next code cycle.
    - AIACA, Worthen Fnd and NBI working on an All-Electric Bldg Database.
    - Zero Code adoption is running into resistance from CA Energy Commission + SoCal utilities. Need to mobilize public voices at commission hearings and locally.

- *Advocating for 2.5Hrs of carbon CE added to ADA for annual license renewal.*

- c) **2021 COTE Programs & Reach** (10/20/20 & 11/17/20 Mtgs): Discussed various event topics as outlined in 2021 Events Calendar below. General conversation and action items included:
- **Coordinate programming** with AIAEB and AIASV to avoid overlap & expand reach.
  - **Partner with engineers and other organizations** to create programming and bring more people to COTE: AIA affiliates in bay area, LA, CA & beyond, AIASF subcommittees (BAYA, EQxD, etc.), Structural & MEP Engineering Firms, ULI, IIDA, SPUR, etc. **\*\*ACTION: 1/19/21 Mark & Charlie to reach out to AIASF Committee Chairs to collaborate on various COTE programs: Design for Tech (Dave Alpert) and Public Policy (Vivian Dwyer & Karin Payson).**
  - **Developers & Business Focus:** Bjorn / BRW Arch mentioned bringing in business speakers to discuss sustainability issues from their perspective. Emilie/A10 is working with Microsoft. Mark/BAR suggested partnering with ULI & USGBC. **\*\*ACTION: Fold into programming.**
  - **Small & Medium Sized Arch firm sustainability outreach:** Include programs that scale the 2030 Commitment, Framework and other sustainability topics to smaller firms. **\*\*ACTION: Reach out to AIASF Small Firm (Julie Jackson) & BAYA (Will Searcy & Kevin Riley) Committees**
- d) **SPUR Update** (04/20): *SPUR's new Sustainability Director is Laura Feinstein is taking on a host of topics this year, including transportation, carbon reduction, electrification, adaptation (especially around water and drought resilience), regional governance, and equity. Check their events calendar, and hold **June 21-23** for Ideas+Action: Sustainability and Resilience for the Bay Area.*

2. **2021 COTE EVENT CALENDAR:** COTE Committee members are developing the following program topics. **Please join an event Working Group that's of interest to you!**

Date/Time/ Location	Event Title & CE info & Price	Description & Action	Working Group & COTESF Leads
<b>2021 EVENTS LIST:</b>			
<b>APRIL 2021:</b> Wed Apr 28 12-1:30 pm	<b><u>"Reach Codes/Gas Bans/ Electrification – What Architects Need to Know"</u></b> CE: 1.5LU Cost: Free	<b>Description:</b> Presentation on all-electric reach code and gas-ban regs: What do architects need to know about code impacts and electrification reqts. Free thru Energy Code Ace sponsor. - Gina Rodda/Gable Energy will develop a program thru Energy Code Ace on topic. - Amy Rider/BDC and architect Cate Leger confirmed speakers. <b>**ACTION:</b> -Mark/Charlie: <b>contact AIASF Policy Comm &amp; AIAEB/SV</b>	<b>Working Group:</b> -Mark Kelly -Gina Rodda/Energy Code Ace -Amy Rider/Bldg Decarb Coalition -Cate Leger
<b>APRIL 2021:</b> Tuesdays: April 6, 13, 20 & 27	<b><u>"PEC Water Conservation Showcase"</u></b> CE: Varies Cost: Free	<b>Description:</b> Annual event organized by Ryan Stroupe at Pacific Energy Center. Mark Kelly supports Allan Robles on planning. <b>**ACTION:</b>	<b>Working Group:</b> -Allan Robles -Mark Kelly COTE SF Lead
<b>APRIL &amp; MAY 2021:</b> Tue Apr 20 & Fri May 14 12-1pm	<b><u>"SF All-Electric Ordinance Informational Webinars"</u></b> CE: N/A Cost: Free	<b>Description:</b> SFDBI and SFE organizing 45-minute informational presentations about SF's <u>New All-Electric New Construction Ordinance</u> that goes into effect <b>June 1 2021</b> . See Administrative Bulletin 112 for more info. <b>**ACTION:</b> <i>Charlie to share w/ AIASF Small Firms Comm.</i>	<b>Working Group:</b> -COTE to support and advertise event.

<p><b>MAY-AUG 2021</b>  <b>Series Dates:</b>  <b>Mon @ 5pm:</b>  <b>May 24, June 7 &amp; 21, July 12 &amp; 19, Aug 2 &amp; Sep 13, 2021</b>  90 Min. Ea.  Webinar</p>	<p><b>“Health(ier) Materials Series”</b>  CE: TBD  <b>Cost: TBD.</b>  Discuss w/AIASF  \$5 Student  \$10 AIA  \$15 Non-AIA</p>	<p><b>Description:</b> New &amp; Old Materials – redefining how we build healthier buildings, including carbon, water and equity impacts cradle to grave. Series supported by COTE SF, CLF SF &amp; LA and USGBC LA.</p> <ul style="list-style-type: none"> <li>- <b>Series Dates &amp; Topics:</b> (updated 2/16 mtg)  <b>Mon 5/24/21 5pm (AIASF?):</b> Keynote Address (Malo Huston-tbd) + Series Introduction/Overview (Ruchi Shah &amp; Jack Dinning)  <b>Mon 6/7/21 Noon (AIA/SF?):</b> Enclosure Part 1— Structural. (Kelly Doran   Mass Design)  <b>Mon 6/21/21 5pm (CLF/LA):</b> Enclosure Part 2--Non-Structural (Speakers TBD)  <b>Mon 7/5/21 5pm (USGBC/LA):</b> Interior Finishes &amp; Furniture (Kathleen Hetrick+ others TBD)  <b>Mon 7/19/21 5pm (USGBC/LA):</b> MEP Systems (Speakers TBD)  <b>Mon 8/2/21 5pm (USGBC/LA):</b> Tomorrow’s Materials (New Tech: 3D Printing / Mycelium/ Biofab. Speakers TBD)</li> </ul> <p><b>**ACTION:</b></p> <ul style="list-style-type: none"> <li>-Heather to chase IIDA for collaboration.</li> <li>-Charlie &amp; Brian to contact AIASF about event sponsorship.</li> </ul>	<p><b>Working Group:</b>  -Brian Houstle/ Siol Studios  -Massey Burke/ CASBA  -Jack Dinning/ Healthy Matls Lab  -Ruchi Shah/TNDC  -Kathleen Hetrick/ Buro Happold LA  - Heather Ferguson/ ex Noll&amp;Tam</p>
<p><b>JUNE 2021:</b>  <b>Fri June 18 12-1:30 pm</b>  (Intro)  <b>&amp; Other Dates TBD</b></p>	<p><b>“Green Specs Roundtable”</b>  CE: TBD  <b>Cost: TBD</b>  Partnership with AIA MB COTE.</p>	<p><b>Description:</b> Green Specs event with spec writer, architect &amp; GC. March intro session with add’l sessions on specific topics to incorporate carbon &amp; electrification &amp; equity. Focus is smaller scale projects, issues and architects.</p> <p><b>**ACTION:</b></p> <ul style="list-style-type: none"> <li>-Libby working with AIA MB team to develop program.</li> <li>-Libby to contact Anne Hicks Harney. Other participants?</li> </ul>	<p><b>Working Group:</b>  -Charlie Stott  -COTE Monterey Bay: Libby Barnes</p>
<p><b>Q3 or Q4 2021</b>  <b>Month &amp; Date TBD</b>  <b>Late Summer??</b>  Webinar</p>	<p><b>“Building Electrification Retrofits”</b>  CE: TBD  <b>Cost: TBD</b></p>	<p><b>Description:</b> Electrification retrofit topic, focusing on small commercial &amp; MF residential case studies. See event outline at end of meeting notes. Add’l topics to address:</p> <ul style="list-style-type: none"> <li>- Owner/business concerns (Barry Hooper/SFE can help)</li> <li>- What is AIA doing on electrification?</li> <li>- Electrification/Equity/Carbon Nexus: Bjorn Myrum suggests <a href="http://Greenlining.org">Greenlining.org</a> for electrification &amp; equity topic.</li> </ul> <p><b>**ACTION:</b></p> <ul style="list-style-type: none"> <li>-Anish &amp; Steve to look for retrofit case studies. SAHA projects may have electric retrofits. DBA retrofit examples?</li> </ul>	<p><b>Working Group:</b>  -Anish Tilak / RMI  -Steve Gross / Interface Eng  -Charlie Stott  COTESF lead.</p>
<p><b>Q3 or Q4 2021</b>  <b>Month &amp; Date TBD</b>  Webinar</p>	<p><b>Zero Waste Design Series – NYC + Bay Area: MF Housing</b>  CE: 1.5 LUHSW  <b>Cost: Free</b></p>	<p><b>Description: Zero Waste Session 3: Zero Waste &amp; Multi-Family Housing:</b> Panel with SF Environment (Steven Chiv) focusing on zero waste &amp; MF Housing, their new waste calculator, and district scale strategies for zero waste.</p> <p><b>**ACTION:</b> Waiting for response &amp; timing from SFE.</p>	<p><b>Working Group:</b>  -Clare Miflin   Center for Zero Waste Design NY  -Charlie Stott  COTESF lead</p>

<p><b>Q3 or Q4 2021</b> Date TBD Webinar</p>	<p><b>“The Great Reset”</b> CE: TBD Cost: TBD</p>	<p><b>Description:</b> Hold a “resetting” conversation – how do architects capitalize on covid &amp; recent climate disasters to further sustainable project &amp; client outcomes: <b>See Emily Gosack’s event draft at end of meeting notes.</b></p> <p><b>**ACTION:</b></p> <p>-Emily to meet with Katie, Erin and Gayle to discuss. -Emily to connect with Corey Squire about Top10 &amp; Pecha. -See interim update in event description at end of notes.</p>	<p><b>Working Group:</b> -Emily Gosack/Jensen -Katie Ackerly &amp; Erin Feeney/DBA -Gail Napell/Gensler</p>
<p><b>Q3 or Q4 2021</b> Date TBD Webinar</p>	<p><b>“Project Specific Water Recycling in SF”</b> CE: TBD Cost: TBD</p>	<p><b>Description:</b> New 4/20/21. Presentation on SF’s Water recycling ordinance and building impacts. Panel w/ system mfr, engineer/architect, project owner and PUC rep. Event sponsored by WH20 Systems / Jurek Parodi CEO</p> <p><b>**ACTION:</b></p> <p>-Jurek to contact Paula Kehoe/SFPUC &amp; owner’s rep. -Charlie to contact engineer w/ water recycling experience.</p>	<p><b>Working Group:</b> -Jurek Parodi/WH20 Systems -Others TBD</p>
<p><b>Q3 or Q4 2021</b> Date TBD Webinar</p>	<p><b>Decarbonization Event</b> CE: TBD Cost: TBD</p>	<p><b>Description:</b> Presentation topic(s) TBD. 10/20 &amp; 11/17/20 meeting discussions included:</p> <ul style="list-style-type: none"> <li>- <b>Decarbonization &amp; Landscape:</b> Pamela Conrad/CMG helped develop the landscape carbon calculator. Is ASLA adopting any AIA tools ie. <u>2030 Palette</u>?</li> <li>- <b>Project Drawdown List:</b> Highlight top carbon reducing strategies like refrigerant mgt or PVs; or on overview of key carbon reduction tools (Anish &amp; Emilie / A10)</li> <li>- <b>Carbon Primer</b> for Everyday Practice &amp; <b>Design Charette</b> to understand the “whole process” better (Bjorn &amp; Manalee)</li> <li>- <b>Owner PR:</b> Critical need to communicate carbon issues to Owners. Decarb Coalition + PR campaign (Ted Tiffany)</li> </ul> <p><b>1/19 Update:</b> Maggie Morrow/Petersen LA interested in carbon impacts of design, metrics &amp; tools, owner education. <b>2/16/21 Update:</b> Emily Gosack proposed a “<b>Small Project Low-Carbon Toolkit</b>” event. See outline at end of notes. (Bjorn Myrum &amp; Manalee Nabar voiced interest in this topic @ planning mtgs. In late 2020)</p> <p><b>**ACTION:</b></p> <p>- Maggie Morrow to spearhead landscape carbon topic &amp; contact Pamela Conrad after April 2021. -For Emily’s “<i>Small Project/Low Carbon Toolkit</i>” possible collab with AIASF Small Firm Committee?</p>	<p><b>Working Group:</b> -Anish Tilak &amp; Emilie Hagen/A10 -Ted Tiffany/G&amp;B -Maggie Morrow/Petersen Studio &amp; possibly Pamela Conrad/ CMG -Bjorn Myrum/BRW Architects -Manalee Nabar / WSP -Emily Gosack/Jensen Archts</p>
<p><b>Q3 or Q4 2021</b> Date TBD Webinar</p>	<p><b>Resilience Event</b> CE: TBD Cost: TBD</p>	<p><b>Description:</b> Topic TBD. Prior meeting discussions included:</p> <ul style="list-style-type: none"> <li>- <b>Risk: Insurance &amp; liability</b> impacts from natural disasters, climate impacts and pandemics for building and business owners; Hillary Noll is interested in the insurance topic.</li> <li>- <b>AIA Resilience &amp; Adaptation Toolkit</b> roll out (Gail Napell)</li> </ul>	<p><b>Working Group:</b> -Gail Napell/Gensler &amp; AIA Resilience Chair -Others Interested:</p>

		<ul style="list-style-type: none"> <li>- <b>Local jurisdictions &amp; business roundtable</b> (Emilie Hagen/A10)</li> <li>- <b>Electrification &amp; decarbonization</b> and their positive impacts on resilience (Ted Tiffany/G&amp;B). <b>2/16:</b> <i>Gail rec's Adam Kyle/Myers+ and Erik Dyrr/NRG for this topic.</i></li> </ul> <p><b>**ACTION:</b></p> <p>*Gail to narrow resilience topic(s) and form a WG to select speakers/format. Round table convo could include: liability &amp; insurance / client+ engineering + LA perspectives. <i>Perhaps combine with "The Great Reset" group for a broader convo?</i></p> <p>*Note: Gail is on a USGBC <b>Sustainability &amp; Resilience panel</b> on 4/21 @ 11am. AIASF is hosting a "<b>Community Resilient Strategies</b>" event on April 29<sup>th</sup> @ 9am.</p>	<ul style="list-style-type: none"> <li>-Hillary Noll (liability topics)</li> <li>-Emilie Hagen (business topic)</li> <li>-Bjorn Myrum (electrification &amp; resilience);</li> </ul>
<b>Q3 or Q4 2021</b> <b>Date TBD</b> Webinar	<b>Passive House &amp; Multi-Family Housing</b> <b>CE: TBD</b> <b>Cost: TBD</b>	<p><b>Description:</b> Collaboration with Passive House California (Bronwyn Barry &amp; Nabih Tahan/PHCA + Sharon Gaber, PH Mng Director) focused on MF Housing using PH methods.</p> <ul style="list-style-type: none"> <li>- Handel Archts did 750-bed PH project @ U. of Toronto.</li> <li>- <b>1/19 Update:</b> Hillary Noll/Mithun focuses on all-electric MF housing, and uses some PH strategies. Ed projects focus more on PH certification. Libby Barnes mentioned Rob Nicely as a GC doing residential PH projects.</li> </ul> <p><b>**ACTION:</b> Mark Kelly to develop program outline.</p>	<b>Working Group:</b> -Mark Kelly/BAR -Others TBD
<b>DEC 2021:</b>	<b>Holiday Party</b>	<b>Holiday Party TBD.</b> Hoping In-Person!!!	
<b>Other 2021 Events</b>	<b>AIASF Housing Symposium: 6/25 or 26</b> <b>A21-AIA Convention: 6/17, 7/8, 7/29, 8/19</b> <b>AIASF Arch+City: 9/10-30</b> (blackout all Sept)	<b>GreenBuild: 9/21-23</b> San Diego <b>AIASF Indigenous Arch: 10/21</b> <b>AIASF Design Tech: Nov date TBD</b>	
<b>AIASF Available Dates</b>	<b>Mon 7/12</b> aft+eve; <b>Thur 7/15</b> aft; <b>Fri 7/16</b> aft; <b>Mon 7/26</b> aft+eve; <b>Wed 8/4</b> aft; <b>Thurs 8/5</b> eve; <b>Mon 8/9</b> aft+eve; <b>Thur 8/12</b> aft+eve; <b>Fri 8/13</b> aft; <b>Mon 8/16</b> aft+eve; <b>Mon 8/23</b> aft+eve; <b>Wed 8/25</b> aft; <b>Thur 8/26</b> aft+eve; <b>Fri Aug 27</b> aft; <b>Mon 10/4</b> aft+eve; <b>Wed 10/6</b> aft; <b>Mon 10/11</b> aft+eve; <b>Tue 10/12</b> aft+eve; <b>Wed 10/13</b> aft+eve; <b>Thur 10/14</b> eve; <b>Mon 10/18</b> aft+eve; <b>Mon 10/25</b> aft+eve		

<b>ADDITIONAL EVENT IDEAS FOR 2021 &amp; BEYOND:</b>		<b>Target Date:</b>
1.	<b>Common App</b> – How to Complete the AIACA awards form correctly (with Henry Siegel)	TBD
2.	<b>Zero Code</b> -- What is the Zero Code & Why is it important? Or advocacy event?	TBD
3.	<b>AIA Framework for Design Excellence.</b> (Pecha Kucha style initiative by Tate Walker).	TBD
4.	<b>Environmental Equity Event</b> -- Collaboration with AIA EB COTE / Ben Levi; or with Raphael Sperry with <u>Architects &amp; Designers for Social Responsibility</u> ). Bring Env. Equity into every sustainability topic included in the 2021 programs. (Good topic for AIASF Symposium 2022.)	TBD



## **ANNOUNCEMENTS / INFORMATION / RESOURCES:**

### **Sustainability Programs, Events & Competitions:**

- **AIASF Events Calendar** (including COTE events)
- **AIA East Bay Events Calendar** (including COTE events)
- **SF Bay Area Collaborative** Ongoing Events. Part of the International Living Future Institute.
- **Living Future Conference**: Inclusion & Unity. April 20-23, 2021
- **SF Municipal Green Taskforce Meetings**: 2<sup>nd</sup> Wed of each month @ lunchtime.
- **Carbon Leadership Forum - San Francisco**: See their website for events & virtual gatherings.
- **USGBC Northern California Chapter**

### **General Sustainability Information Links & Resources:**

- **AIA National COTE website** & **AIA COTE National Advocacy Info**
- **COTE Top Ten Award Winners 2020 & Prior year Top Ten award winners**
- **Architecture 2030**: Org advocating for reduction of green house gas emissions in the built environment.
- **Zero Energy Project**: Website with info & links to zero energy architectural strategies.
- **Architects' Guide to Business Continuity** – AIA's guide to business continuity in times of crisis.

## **TOOLS & RESOURCES:**

### **AIA Sustainability Resources on various topics:**

- The AIA's **Where We Stand** statement emphasizes the AIA's commitment to fighting climate change and AIA member's ethical and environmental responsibilities.
- **AIA Sustainability Resources & AIA Sustainability Advocacy Resources**
- **AIA's Blueprint for Better Campaign**. Answer with Action: How to help transform the practice of architecture to achieve a zero-carbon, resilient, healthy, just and equitable future.
- **AIA Framework for Design Excellence & AIA COTE Top Ten Tool Kit**: Provides ten relevant measures, guidance and links to assist architects in designing deep green projects.
- The **AIA's 2030 Commitment** is a measureable framework used by Arch firms to commit to and track their progress toward reducing energy use and greenhouse gas emissions compared to baseline info. It includes a Design Data Exchange (**DDx**) for annual progress measurement and reporting. This **video webinar** provides the Why? What? And Hows? of the Commitment!
- **AIA Resilience Tools**: Understanding Resilience and Qualities of Resilience, and How to Integrate Resilience into your Practice.
- Resilience: AIA's **Architect's Guide to Business Continuity** + free webinar
- AIAU's **Embodied Carbon 101** series covering all aspects of embodied carbon in construction.
- **Electrification NOW!**: A great overview from the AIACA on why & how to electrify everything!
- The **Common App** is a design award application format that incorporates the AIA Framework for Design Excellence. Various AIA chapters are adopting all or part of the new format.

### **De-Carbonization / Energy Reduction / Electrification Resources:**

- **Benefits of Tracking and Reporting Embodied Carbon** (Building Enclosure Magazine)
- **Embodied Carbon: What you can Do Right Now** (arcCA Digest)
- **The Financial Case(s) for High Performance Buildings**: Read Stok's Whitepaper on the subject, and architect Bill Leddy's Business Case for Zero Carbon Architecture.
- **Zero Tool**: Online energy reduction tool for designers to set baselines and targets, compare a building's energy performance with similar buildings and to codes, and understand how a building achieves its current energy performance.

- **Life Cycle Assessments (LCA's):** LCA's measure various harmful emissions & environmental impacts generated by building materials' fabrication, installation and reuse. The **LCA Practice Guide** from the **Carbon Leadership Forum** (CLF) provides guidance on how to conduct an LCA. LCA tools include Autodesk's **Tally**, CLF's free software **EC3** that focuses on embodied carbon tracking, **Athena** for LCA and carbon assessment, and **One Click** embodied carbon calculator.
- **Carbon Smart Materials Palette**: Online tool providing guidelines for low/no carbon material selections, specifications and guidelines for emissions reductions. The CSMP supports and complements Life Cycle Assessments (LCAs) and Environmental Product Declarations (EPDs)
- **ICE Material Carbon Database**: English database of embodied carbon of various materials. <https://circularecology.com/embodied-carbon-footprint-database.html>
- **Carbon Leadership Forum**: Webinars, events & resources on all things Zero-Carbon, including their online primer titled **Embodied Carbon 101**, and comprehensive **Resource Library**.
- **Cradle to Cradle Certified Product Registry**: Online database of products with **CtC certification**.
- **Zero Code**: National and International zero energy/zero carbon model code developed by **Architecture 2030** and Charles Eley for 2020 adoption by local and state code jurisdictions.
- The **Building Decarbonization Code**: **NBI's** code/tool delivers carbon neutral performance.
- **Getting to Zero Resource Hub** is a set of free educational resources from **NBI** containing best practices, sample policies, charrette toolkits, cost studies, technology studies, and other tools for creating a zero energy / zero carbon building.

#### Other Resources:

- **Healthier Materials Protocol**: AIA & ARUP developed this framework for design professionals to integrate healthier materials in building design by identifying resources and providing information on material health and safety. Also check out Perkins & Will's **Precautionary List**.
- **Healthy Materials Lab**: A resource for healthier building materials & more equitable design.
- **Zero Waste Design Guidelines**: NYC's guidelines target how to send zero waste to landfills.
- **IG | VISION**: Video webinars hosted by MEP engineering firm Integral Group on various topics.
- **Pacific Energy Center's Online Classes & Library**: A diverse resource for sustainable learning!
- **AB-262 Buy Clean California Act** & other California **State climate measures**.
- **Sustainable Performance Institute**: A very broad and deep resource for design firms & businesses striving to embed sustainability into their culture, process and project delivery.
- **Women in Sustainability-Design the Future Podcast** – a wonderful series of discussions with and about the many women activating sustainability in the design & construction arenas.

#### NEXT COTE PLANNING MEETING:

**Date/Time:** **Tuesday April 20<sup>th</sup>; 12:30pm – 1:30pm**

(COTE planning meetings are typically held the 3<sup>rd</sup> Tuesday of each month @ 12:30pm)

**Location:** **Due to the Corona Virus, meetings will be virtual for the foreseeable future.**

**For log-in info,** see top of meeting notes.

#### AIASFCOTE LEADERSHIP:

**Mark Kelly**, BAR Architects, Co-Chair [mkelly@bararch.com](mailto:mkelly@bararch.com)

**Charlie Stott**, Stott Architects, Co-Chair [cstott19@gmail.com](mailto:cstott19@gmail.com)

## Event Topics from **Emily Gosack/Jensen Architects:**

2/16/21

### 'The Great Reset':

**Summary:** The context of our conversations with clients about building sustainability outcomes has changed substantially from one year ago: a public health crisis, worsening wildfires, and a new presidential administration. In the policy and business worlds, there are substantial conversations about how to use this moment of re-building to move towards a more sustainable future. How do we as architects and designers capitalize on this moment, to improve project outcomes by opening up conversations with our clients and connecting the dots between current crises and climate action?

#### Panelists:

1. **Sustainability Consultant** (someone from A10, ARUP, or other sustainability firm)- This person would ideally be able to speak synthetically about the sustainability stories that we are constructing today and how they are different than one year ago- i.e. how to weave projects that address covid safety and wildfire resiliency together with lower carbon consumption.
2. **MEP Engineer** (someone from G & B, or others)- This person could perhaps speak to building system tactics for addressing Covid safety, wildfire resiliency, and low operational carbon.
3. **Architect**- Someone with a strong climate advocacy focus who could talk about strategies for convincing clients to take a more aggressive approach to lowering carbon, and what new talking points might be appropriate now-- i.e. healthy buildings, operational resiliency, etc.

#### Learning Objectives:

1. Synthesize design team response strategies to COVID-19, wildfire mitigation, and climate action.
2. Describe low-carbon building system design responses that also respond to COVID-19 safety.
3. Discuss strategies for expanding client COVID-19 response goals of a project to encompass broader sustainability objectives.

### *"The Great Reset" Update 3/29/21 from Katie Ackerly & Erin Feeney:*

**2 (or 3?) Events under the umbrella of The Great Reset:** First: "Mapping Tools & Resources" and Second: "How the design profession(s) see Transformation". And possibly a third focusing on "Adaptation & Resilience".

- **Intrinsic Tools** that have transformed practice workflow (vs. extrinsic tools that shoot for targets.) Format: A design community brainstorm session to map (pros/cons) the various methods/tools. Could be a smaller COTE group session, or a more public session.
- **Transformation:** How are offices successfully integrating the AIA Framework for Design Excellence & other toolkits to shift firm structure & decision making, design focus, ethos and portfolio-wide results? Pecha Kucha style with 5-6 discipline perspectives and quick, "one idea" presentations. Then a panel discussion.
- **Resilience:** A possible third event for a deeper dive into a adaptive resilience topic spearheaded by Gail.

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### 'Small Projects, Low-Carbon Toolkit':

**Summary:** As the building industry becomes increasingly aware of the role that embodied carbon plays in building sector carbon emissions, new tools and strategies emerge for assessing the embodied carbon of buildings. However, these tools can be complex, and impractical for small projects to incorporate into the design process. The purpose of this panel is to identify a specific toolkit of strategies, appropriate for small projects to easily incorporate into early project development phases to decrease embodied carbon, without embarking on a full life-cycle assessment. Ideally the panel's recommendations would get into specific technical approaches.

#### Panelists:

1. **Structural Engineer**- 3 approaches a design team should deploy when designing the structural system for a small project to decrease embodied carbon. Speak about the challenges of minimizing structural materials in a seismic zone, and techniques for overcoming those challenges.
2. **Architect**- Share specific low-carbon / high-insulation wall assemblies appropriate for small projects to decrease embodied as well as operating carbon.
3. **Interiors**- Share specific recommendations on interior finish and furnishing specifications. Things to look for when specifying.



### Learning Objectives:

1. Discuss low embodied carbon structural design approaches appropriate for small projects.
  2. Describe low-carbon building envelope assemblies and challenges.
  3. Identify approaches to specifying interior finish and furnishings to reduce embodied carbon.
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### Event Idea from **Anish Tilak/RMI & Steve Gross/Interface Eng**

*Update 4/9/21*

#### **'Electrification Retrofits':**

Natural gas bans for new construction projects have been passed by major Bay Area cities, including San Jose, Oakland, San Francisco, and Berkeley. While these mandates will foster a market for electric space heating & domestic hot water systems in projects seeking new building permits, new construction accounts for only a portion of building stock that will need to be electrified to achieve broader building decarbonization.

Tenant improvement projects and other renovation scopes, which occur frequently and on quicker timelines, position architects to advocate for and accelerate the pace of building electrification.

Educational objectives of the session:

- The role of architects in driving heat pump adoption as part of retrofit scopes.
- (2-3) Case studies by mechanical engineers and architects for partial or full electrification in the following typologies:
  - Small commercial retrofits (AIASF?)
  - Residential retrofits
- Common system types for small scale commercial & residential heating system retrofits:
  - Electric space heating
  - DHW heating
  - Envelope upgrades
  - Demand flexibility measures
- Resources to advocate for electrification with clients when developing retrofit scopes.
  - Rebates/incentives
  - LBNL Integrated Service Packages

Session format:

*Content presentation by Steve & Anish*

*Case Study presentation(s) by TBD*

*Q&A/discussion to follow.*