

AIASF COMMITTEE ON THE ENVIRONMENT

AIASF COTE Monthly Meeting Minutes

Meeting Date: Tuesday, June 15th, 2021; 12:30 PT Zoom Meeting

Next Virtual Meeting: **Tuesday, July 20th, 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/Stott Arch** (COTE Co-Chair)|Stott Arch

Anish Tilak/RMI; **Emily Gosack/Jensen Arch**; **Erin Feeney/DBA**; **Remi Tan/Z&L Properties**

DISCUSSION ITEMS:

1. General Discussion:

a) AIA National COTE Network Communications & Resources:

- **The May/June 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
- **AIA Conference 2021** (New 5/18): Virtual Event Jun 17, July 8 & 29, Aug 19.

b) AIA California COTE Network Communications & Resources:

- **COTE CA:** Ongoing initiatives & efforts:
 - **Statewide COTE Network Call.** Contact Hillary Krek hkrek@aiacalifornia.org to join.
 - **Education:** See online Climate Action Webinar Programs developed by AIACA. *Very good recent presentation here on the **Business Case for Project Energy Modeling**.*
 - ***Highlights from 6/16 CA COTE Mtg.*** COTE CA is:
 - Working to get a carbon component into CalGreen in next code cycle.
 - *Moving **AB-1010** thru legislature to add carbon education to licensing reqt.*
 - ***Zero Code adoption** is moving slowly thru CA Energy Commission.*
 - ***CEBC:** Adding IEBC performance energy paths beyond baseline prescriptive.*
 - ***Common App:** Using & continuing to refine for AIACA awards program.*
 - ***Resilience/Adaptation Comm:** Working on outreach to components about best practices + creating resilience handbook. ****More Res/Adapt Subcomm members needed. Contact Bill Melby if interested: bmelby@ordizmelby.com***

c) **2021 SF COTE Programs & Reach** (2020 with updates): Discussed various event topics as outlined in 2021 Events Calendar below. General conversation and action items included:

- **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:** **Update 4/20:** Charlie connected with SPUR’s Sustainability Policy Director Laura Feinstein. See SPUR discussion below.
 - **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:**
 - **Small & Medium Sized Arch firm sustainability outreach:** Include programs that scale the 2030 Commitment, Framework and other sustainability topics to smaller firms. ****ACTION:** **Charlie & Mark to reach out to BAYA (Will Searcy & Kevin Riley) Committees.**
Update 4/20: Charlie connected with the **AIASF Small Firms Comm** chair Julie Jackson, and will be doing a Design Excellence presentation to their group in the coming months.
- d) **SPUR:** SPUR’s new Sustainability Director is Laura Feinstein is taking on a host of sustainability related topics this year. Check their events calendar, and hold **June 21-23** for **Ideas+Action: Sustainability and Resilience for the Bay Area**. **05/18 Update:** Also check out SPUR’s just released **SPUR Regional Strategy**, packed full of compelling info!

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
2021 EVENT CALENDAR:			
APRIL 2021: Tuesdays: April 6, 13, 20 & 27	“PEC Water Conservation Showcase” CE: Varies Cost: Free	Description: Annual event organized by Ryan Stroupe at Pacific Energy Center. Mark Kelly supports Allan Robles on planning. Update 5/18: Slides from all sessions are available at the https://www.waterconservationshowcase.com/site . **ACTION: <i>PEC looking for an architect to help organize next year’s planning: Meetings 1x per month with planning calls between. Contact Mark for more info: MKELLY@bararch.com</i>	Working Group: -Mark Kelly COTE SF Lead
MAY 2021: Wed 5/26 12-1 pm Addl Dates TBD	“Electric Kitchens Have Arrived” CE: None Cost: Free	Description: Induction Kitchen Live Streamed Demo event on residential kitchens, with a forthcoming event for comm’l kitchens. In conjunction with Monark Appliance. **ACTION: <i>Charlie to get video link from Alex @ Monark, and begin planning for Commercial Kitchen demo event.</i>	Working Group: -Charlie Stott
MAY-AUG 2021 Series Dates: Mon @ 5pm: May 24, June 7 & 21,	“Healthy Materials Series” CE: None Cost: Free CLF Ldng Page: https://www.clf-sfbayarea.org/h	Description: New & Old Materials – redefining how we build healthier buildings, including carbon, water and equity impacts cradle to grave. Series supported by COTE SF, CLF SF & LA and USGBC LA. - Series Dates & Topics (HOST): (updated 4/20 mtg) Mon 5/24/21 5pm (CLF/LA): INTRO - Keynote Address (Malo Hutson) + Panel (Ruchi Shah & Jack Dinning)	Working Group: -Brian Houstle/ Siol Studios -Massey Burke/ CASBA -Jack Dinning/ Healthy Matls Lab -Ruchi Shah/TNDC

		**ACTION: Provide event copy & images by Sept 1 st .	
Q4 2021 Date & Time TBD Zoom Event	“Project Specific Water Recycling in SF” CE: TBD Cost: TBD	Description: 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 WH2O Systems / Jurek Parodi CEO **ACTION: Settle on Q4 date (see below) and participants. -Jurek to contact Paula Kehoe/SFPUC & owner’s rep. -Brian Menrath @ Atelier 10 is confirmed. -Remi can discuss SFPUC gray & black water systems if reqd	Working Group: -Jurek Parodi/ WH2O Systems -Brian Menrath Atelier 10. -Others TBD
Q4 2021 Month & Date TBD Zoom Event	Zero Waste Design Series – NYC + Bay Area: MF Housing CE: 1.5 LUHSW Cost: Free	Description: Zero Waste Session 3: Zero Waste & Multi-Family Housing: Panel with SF Environment (Steven Chiv) focusing on zero waste & MF Housing, their new waste calculator, and district scale strategies for zero waste. **ACTION: Waiting for response & timing from SFE.	Working Group: -Clare Miflin Center for Zero Waste Design NY -Charlie Stott COTESF lead
DEC 2021:	Holiday Party	Holiday Party TBD. Hoping In-Person!!!	
2021 Events Dates for Coordination	A21-AIA Convention: 6/17, 7/8, 7/29, 8/19 AIASF Arch+City: 9/10-30 (blackout all Sept) GreenBuild: 9/21-23 San Diego	AIASD Indigenous Arch: 10/21 TBD due to MDC. Monterey Design Conf Online: 10/22-24 AIASF Design Tech: Nov date TBD, or 1 st Q 2022	
AIASF Avail. Dates (as of June 2021)	Mon Aug 23 aft+eve; Wed Aug 25 aft; Thur Aug 26 aft+eve; Fri Aug 27 aft; Mon Oct 4 aft+eve; Wed Oct 6 aft; Mon Oct 11 aft+eve; Tue Oct 12 eve only; Wed Oct 13 aft+eve; Thur Oct 14 eve; Mon Oct 18 aft+eve; Mon Oct 25 aft+eve; Nov 1,2,3,5 aft; Nov 1&5 eve; Nov 8,10,11,12 aft+eve		

ADDITIONAL EVENT IDEAS FOR 2021 & BEYOND:		Target Date:
1.	Common App – How to Complete the AIACA awards form correctly (with Henry Siegel)	2022 TBD
2.	Zero Code -- What is the Zero Code & Why is it important? Or advocacy event?	2022 TBD
3.	AIA Framework for Design Excellence. (Pecha Kucha style initiative by Tate Walker).	2022 TBD
4.	Environmental Equity Event -- Collaboration with AIA EB COTE / Ben Levi; or with Raphael Sperry with <u>Architects & Designers for Social Responsibility</u>).	2022 TBD
5.	Small Projects Low Carbon Toolkit: Idea from Emily Gosack @ Jensen. Corey Squire interested in this topic as well. Geared to smaller firm / project needs.	2022 TBD
6.	Decarbonization in the Landscape: Idea from Maggie Morrow/ Petersen Studio about carbon impacts of landscape design, metrics & tools, owner education.	2022 TBD
7.	Resilience / Adaptation: Idea from Gail Napell to present updates to the <u>Architect’s Guide to Bus. Continuity</u> . Also the <u>AIA Fundamentals of Resilient & Climate Adaptive Design</u> and updates to the “Design for Change” Design Excellence toolkit language will be ready in early 2022 for presentation.	2022 TBD

ANNOUNCEMENTS / INFORMATION / RESOURCES:

Sustainability Groups, 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.
- **SF Municipal Green Taskforce Meetings**: 2nd Wed of each month @ lunchtime.
- **Carbon Leadership Forum - San Francisco**: See their website for events & virtual gatherings.
- **USGBC Northern California Chapter**
- **AIA Conference 2021**: Virtual Event Jun 17, July 8 & 29, Aug 19.
- **Net Zero 2021**: Sept 13-16, LA CA -- 2 days Virtual events + 1 day Live expo
- **Greenbuild 2021**: Sept 21-23, San Diego CA in person & virtual
- **Getting to Zero Forum 2021**: Oct 27-29, NYC
- **Architecture at Zero Competition**: Submissions due Jan 11, 2022

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 2030 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)

- **Getting to Zero Resource Hub** is a set of free resources and tools from NBI containing best practices, sample policies, charrette toolkits, cost and technology studies, and other tools for creating a zero energy / zero carbon building, economy and world.
- **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)
- **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.
- **A Pocket Guide to All-Electric Retrofits of Single-Family Homes** from Redwood Energy.
- **All-Electric Commercial Kitchen Info** from the Food Service Technology Center.
- **Electrification Resources** from the Rocky Mountain Institute (RMI)

Other Resources:

- **Intersectional Environmentalism**: A great conversation with Leah Thomas, Diandra Marizet and Rev. Lennox Yearwood, Jr. about building an inclusive and just environmental movement.
- **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.

AIASFCOTE LEADERSHIP:

Mark Kelly, BAR Architects, Co-Chair mkelly@bararch.com

Charlie Stott, Stott Architects, Co-Chair cstott19@gmail.com

Event Topics from Emily Gosack/Jensen Architects:

Update 6/15/21

'The Great Reset':

THE GREAT RESET is a series of conversations with building industry professionals who are proactively embracing our changing world. Join us to hear how each of them is deepening their commitment to design practice and leadership through new and unique approaches to problem solving, research and advocacy. Sessions will kick-off with short presentations by each panelist in response to a topical question, followed by a roundtable discussion and audience Q&A. **The Great Reset** – A series of conversations for the Climate Age. Join Us!

EVENT 1 – Tools for Design Practice | Monday July 12th @ 12:30pm PT

EVENT 2 – Research and Technology | Fall 2021

EVENT 3 – Advocacy and Design Leadership | Fall 2021

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.

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.