## CABEC's 2019 "California's New Energy Horizon" Conference, April 25 - 27, 2019

Preliminary Schedule (all Sessions are subject to change)

## THURSDAY

Room 1	Room 2	Room 3	Room 4
Res CEA	non-Res CEA	HERS Updates	Exam
Res CEA MC prep course	non-Res CEA MC prep course	Cal Certs	
Res CEA MC prep course	non-Res CEA MC prep course	Cal Certs	
Res CEA ACM prep course	non-Res CEA ACM prep course	Cheers	Exams
			1:00-5:00
Res CEA ACM prep course	non-Res CEA ACM prep course	The Effort of Harmonize California and RESNET HERS Ratings - Steve Baden	1.00-5.00

## FRIDAY

Energy Code Ace Room Room 2 Room 2

CABEC Welcome / Announcements  Keynote (McAllister)				
Informal break / Networking	Informal break / Networking	Informal break / Networking		
Game changing assessments of why All Electric Homes are feasible, practical, and essential to the future of California in single family and multifamily applications.  - John Grose	Pushing The Envelope, Building For Tomorrow: This course will look at lessons learned and future struggles for new construction as home performance increases, whole house systems are effected and in some cases underperforming  Steve Buttitta	On going consultation with clients for their energy reports, working with building departments, HERS raters, Green Building certification raters, and sharing building model files Lynne Mitschke		
Break				
The sun shines bright on California: new solar requirements in the golden state Ritesh Nayyar (45 min)	Low-rise residential reach code packages for the 2019 Title 24 energy code - Alea German (45 min)	Multifamily Ventilation Compliance Strategies: Nonresidential - Gina Rodda and Marina Chavez-Blanco (45 min)		
Informal break / Networking	Informal break / Networking	Informal break / Networking		
How Builders Plan to Integrate Solar for Compliance - Troy Bevilacqua (45min)	CAHP billing analysis - Mike Maroney (45 min)	Where We're Headed with the 2019 Energy Standards '€" Nonresidential - Gina (45 min)		
Lunch				
Presentation: Equitable Net Zero - Renewable Source Energy and the All Electric Future - Bronwyn Barry	This session would focus on Accessory Dwelling Units. We will review the 4 different types of possible construction, (taking over attached unconditioned space, taking over detached unconditioned space, adding on, connected, to already conditioned space, and a brand new build) and how it will look in the 2019 code. The session will explore the challenges ADUF*s face and offer possible solutions to get a project passing.  - Mitchelle Austin	Indoor Lighting Alterations: Rated Power Reduction Method This session addresses one way energy analysts can make code compilance attractive to clients through demonstrated cos savings and expert consulting. The power reduction method offers implified data collection as well as reduced control requirements as opposed to the area category method, which translates to savings on total project costs. Analysts can also support their clients through advising them on incentive programs.  - Arielle Usher		
Informal break / Networking	Informal break / Networking	Informal break / Networking		
Health safety and environmental assessment of beneficial electrification - Nic Dunfee	CBECC-Res Under The Hood: modeling for compliance and beyond Luke Morton	How to Prepare Plans and Specification for Energy Code Compliance - Brian Selby		
Break				
California Residential Building Electrification Market Assessment and Deployment Study - Results for new construction and existing single family and multifamily buildings Alea German	Code Compliance has Never Been This New: An EDR Primer Matt Christie	A case study using combined heat and power (CHP) with solar PV for a community based near-zero energy solution. Joe Shiau, PE, CEM, Senior Market Advisor, SoCalGas		
Informal break / Networking	Informal break / Networking	Informal break / Networking		
2019 Residential Modeling Updates				

## SATURDAY

	CABEC- The Benefits of your CABEC Membership and the value of becoming a CEA / AEA. CABEC Panel				
The future of the building standards and the transition to decarbonization					
Break					
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CCAs and the shifting role of IOUs in the California market Susan Davison	2019 Dynamic NRCC Forms The California Energy Commission has redesigned the prescriptive nonresidential certificates of compliance to reduce the amount of pages, and automate verification of compliance. There will be 10 prescriptive/mandatory NRCC forms plus the NRCC-PRF. Session participants will review the content of the new forms and the interactive features meant to assist with compliance. Kyra Weinkle & Sally Blair	Recent Advances in Modeling Phase Change Materials - Nick Brown			
Informal break	Informal break	Informal break			
Advanced Energy Rebuild: A Disaster Brings together unlikely partners - Nic Dunfee	The CEC offering a session on how to use the Commission's MAEDbS database for searching appliance efficiency metrics, we can offer such a focused workshop  Bruce Helft	Co-presenters, Bob Habian and Canan D'Avela, deliver a potent and focused overview of best practices for understanding and properly calculating heavy mass walls for ZNE projects across all climate zones. Attendees will be equipped to lead their project teams with confidence and insight into one of the most overdoxed tools for achieving ZNE outcomes, namely, interior Exposed Thermal Mass. Additional topics include energy code updates, 4calculation secrets and a free book for each attendee.  Bob Habian, AlA and Canan D'Avela			
Lunch					
How to Spot a good Heat Pump - Matt Christie	High Performance + ZNE = All In for Affordable Housing - Timothy Kohut	Join this session to hear representatives from the CAHP Master Builder and Workforce Instructions for Standards in Efficiency programs discuss monitoring results, construction practices, and new technology applications from participating projects that adopted high performance attics and high performance walls. Participants will learn about moisture and temperature findings, construction best practices, and lessons learned  David Peery and Nolan Stephens			
Informal break	Informal break	Informal break			
DeYoung Properties partnered with Consol to build and study over 100 full ZNE homes in Clovis, CA. This session will share DeYoung's approach to building (almost) all-electric ZNE, market research on consumer preferences and willingness to pay for ZNE homes, and lowest-cost pathways to ZNE based on parametric modeling. We'll also share lessons learned from work with DeYoung and a leading architectural firm to design next-gen floor plans from scratch with a focus on design for energy savings Garth Torvestad	Combination service hot water systems for single family residential homes. The combi-system services both domestic hot water and hydronic space heating with a shared water heater, thereby reduces the architectural space requirements and builder's initial cost and improves overall energy efficiency for the home owners. It is popular in the East Coast but not yet in california. Gas Research Institute (GTI) has completed a computer modeling analysis, substantiated by several virtual and field test data in the U.S. Two new combi-system products on the market were found superior for part load efficiencies that resulted in more seasonal savings, as compared to the baseline of separate furnace space heating and condensing domestic water heaters. SocalGas has current work paper with some limited billing data showing a retrofit can save up to 25% natural gas use. There are no established industrial test standards for combi-systems. However, this project may offer an in-road to a new standard and energy efficiency measure. Tim Kingston, GTI Project Manager; backup Raad Bashar, PE, Senior Engineer, SoCalGas	Air infiltration and CBECC-Res a look at ACH-50 - William Allen			
Break	2010 M- d-lined-t				
	2019 non-res Modeling updates				
Informal break The Missing Link, How to bring contractors up to current code compliance -	Informal break Waste heat recovery using horizontal and vertical drain counter-flow heat exchangers. Stephen Walmsley,				
John N Craig	Project Manager; backup Joe Shiau, PE, CEM, SoCalGas	Larry K. Acker			