

## CE-CERT 2024 Events Report

### Conferences and Webinars

Date	Event	Description
Feb 26-28	IEEE-FISTS Conference	CE-CERT hosted the 4th IEEE Forum for Innovative Sustainable Transportation Systems, bringing together over 100 global leaders to focus on integrating sustainability into intelligent transportation solutions.
Mar 14-15	1st Colorado River Basin Symposium (CRB-SEED)	CE-CERT researchers contributed expertise on renewable energy and climate change, promoting collaboration among Hispanic-Serving Institutions to tackle Colorado River Basin sustainability challenges.
Mar 14-15	13th Annual International OSAR Conference	Hosted at CARB, this conference gathered 150 attendees from 10 countries to discuss on-board emissions sensing; CE-CERT researchers showcased efforts to address environmental justice in emissions monitoring.
Apr 11	Climate Careers Presentation & Panel Webinar	CE-CERT hosted a panel to inspire students to pursue climate change careers, sharing insights on industry trends and actionable strategies for future leaders.
Apr 12-14	2024 National Science Policy Network Symposium	CE-CERT's Dr. Barth participated in a key panel discussing the role of policy in enabling green energy innovation, emphasizing science-driven policymaking for sustainable technologies.
Apr 16	IEEE ITSS Webinar Series: EV Deployment	CE-CERT moderated a webinar on challenges and strategies in electric vehicle deployment and charging infrastructure resilience.
Apr 17	15th International Transport Congress in Mexico City	CE-CERT's Dr. Martinez-Morales highlighted sustainable public transit energy transitions during a high-level roundtable on energy needs in transportation.
May 16	ITE Bob Crommelin Student Presentation Award Meeting	CE-CERT students Hung Nguyen and Harvey Wang earned Honorable Mention for innovative research in C-V2X communication technologies as part of the EcoCAR EV Challenge.
Jul 18	Solar Valley Webinar 2024	CE-CERT hosted a webinar exploring Community Solar program opportunities and equity considerations following recent regulatory changes.

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### Outreach Events

Date	Event	Description
Jul 23	STEP Learning Labs STEM Solutions	CE-CERT presented on biotechnology innovations for environmental sustainability, inspiring high school students to pursue careers at the STEM-sustainability nexus.
Help	BCOE Launch Fest	CE-CERT introduced over 800 attendees to its research initiatives and the EcoCAR team through an interactive tabling event, fostering connections with the next generation of engineers.
Oct 10	STEPCon 2024	CE-CERT welcomed over 60 high school students for immersive lab tours showcasing sustainable technologies and career pathways in environmental research.
Oct 11	Donor Appreciation Dinner	CE-CERT celebrated donor and scholarship recipient contributions, highlighting the collective impact on advancing the center's mission.
Oct 15	Research Seminar at Cal Poly Pomona	CE-CERT's Dr. Qiu presented innovative research on cooperative autonomous driving technologies, fostering future academic collaborations.

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### Research Seminars

Date	Speaker	Title/Topic
Jan 23	Dr. Musa Yilmaz	Fault detection in photovoltaic panels using Digital Twin technologies to enhance reliability and efficiency.
May 2	Dr. Naomi Zimmerman	Translating air quality data into actionable outputs for communities and policymakers.
May 14	Dr. Markus Petters	Research into atmospheric particulate matter impacts on climate and air quality.
Jun 6	Dr. Emily Warmann	Systems approach for agrivoltaics enhancing food, energy, and water sustainability in arid regions.
Jun 14	Dr. Markus Kalberer	Development of new instruments for monitoring aerosol particle toxicity in real time.
Aug 20	Dr. Huan Liu	Strategies for transportation emission reductions and global decarbonization initiatives.

Date	Speaker	Title/Topic
Sep 19	Dr. Harish Phuleria	Assessing vehicular pollution exposure impacts in urban India.
Oct 18	Dr. Alexei Khalizov	New insights into rapid atmospheric aging of soot and its climate implications.

### Trainings and Workshops

Date	Event	Description
Dec 3	Learn to Speak Like a Pro Workshop	Presentation skills training to enhance research communication effectiveness, organized through the SPEAKS program.
May 16	ITE Bob Crommelin Student Presentation Meeting	CE-CERT students presented award-winning research on connected vehicle technologies, receiving Honorable Mention recognition.

### Community Engagement

Date	Event	Description
Feb 20	INSIDE Hunter Park Meeting	CE-CERT participated in a community meeting with Habitat for Humanity, discussing local environmental initiatives.
Apr 22-26	CE-CERT Food Drive	Faculty, staff, and students partnered with R'Pantry to address campus food insecurity, demonstrating CE-CERT's commitment to community support.
Oct 11	CE-CERT Annual Open House	Over 40 visitors toured CE-CERT's facilities, learning about cutting-edge research in air quality, energy, and transportation technologies.

### CE-CERT Internal Events

Date	Event	Description
Feb 9	Lunar New Year Potluck Lunch	A community-building celebration fostering cross-cultural engagement and strengthening internal relationships among faculty, staff, and students.

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Mar 22	End of Quarter Game Night	An initiative to promote team-building, collaboration, and morale through informal networking among CE-CERT personnel.
Apr 16	A.L.I.V.E. Active Shooter Training	A critical safety training equipping faculty, staff, and students with emergency preparedness skills to ensure a secure research and learning environment.
May 7	Praesidium Youth Protection Training	Training designed to uphold the highest standards in youth engagement and safety, reinforcing CE-CERT's commitment to a safe, supportive learning community.
Jun 14	End of Year Celebration (Summer Soiree)	CE-CERT's annual fiscal year-end event recognizing the achievements of faculty, staff, and students, while fostering team cohesion and celebrating the collective impact of CE-CERT's research and educational initiatives.
Jul 19	Spring Quarter Game Night (Bingo)	A structured team-building event designed to strengthen internal connections and encourage collaboration across research and administrative units.
Sep 20	Summer Quarter Game Night (Casino Night)	A morale-boosting event aimed at enhancing internal community spirit and celebrating milestones in CE-CERT's ongoing research projects.
Oct 31	Halloween Spookie Cookie Decorating	A creative engagement activity promoting team bonding and celebrating seasonal traditions within the CE-CERT community.
Nov 22	Fall Potluck	A community-driven gathering fostering gratitude, appreciation, and camaraderie among faculty, staff, and students.
Dec 13	Holiday Celebration	A year-end event honoring the dedication of the CE-CERT community, celebrating achievements, and reinforcing a strong culture of collaboration and innovation.