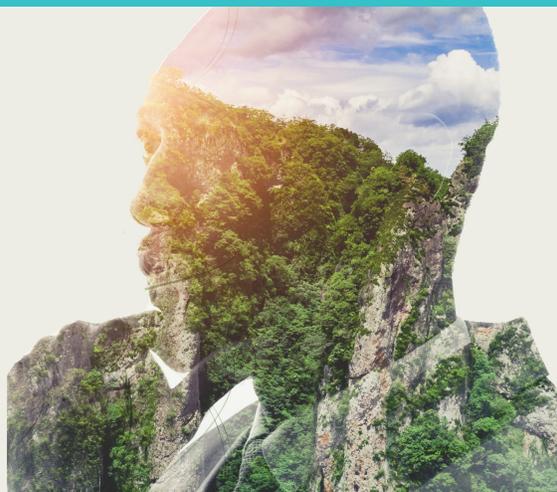**Climate Change** | **IEEE:**
Enabling Innovation and
Technology Solutions

*An events and activities bulletin for members of
the IEEE Climate Change Technical Community*

As always, thank you for your support of the IEEE TA Climate Change Program (TA-CCP). I am pleased to share this second edition of the IEEE Climate & Sustainable Technologies Engagement Bulletin. Based upon feedback from our 1 August distribution, we have expanded the events focus to include near-term project funding opportunities.

Help us to grow the Program and Technical Community through your participation and creation of new activities. Please submit your IEEE efforts related to climate change via the IEEE Events & Activities Reporting Tool.

Sincerely,
Wei-Jen Lee
2023 Chair, IEEE TA Climate Change Program

Upcoming Events - Virtual

5 September 2023: 9:30am EDT - AI/ML & SaaS in Industrial Decarbonization and Electric Vehicles

The rapid Digital Transformation as a consequence of Industry 4.0/5.0, and the explosive growth of Electric Vehicles, which by design are digital heavy, present significant opportunities for using data in innovative ways, that go beyond just monitoring and tracking of assets. This talk will delve into how AI/ML coupled with SaaS as a deployment strategy can help achieve this, and also highlight some of the challenges, pitfalls and remedial actions to make the journey towards NetZero more successful

Learn More

19 September 2023: 4:30 pm EDT - UN Science Summit Session: Opportunities: Renewable Oceans and Sustainable Maritime Industry Initiatives

To reach Ocean Sustainability requires many different actions from marine-based carbon dioxide removal (mCDR) to the maritime industry actions to address ocean pollution and environmental sustainability. The session will include a blend of insightful speakers, engaging panel discussions, and opportunities to discuss what is currently underway to address ocean sustainability and maritime industry efforts on what policies and regulatory actions are needed to support a sustainable ocean.

Learn More

28 September 2023: 11 am EDT - ICs Addressing Societal Grand Challenges: Sustainability and Climate Change

Hosted By IEEE Solid-State Circuits Directions

Electronic circuits and systems leave an environmental footprint throughout their life cycle from mining, refining, processing, and manufacturing, to end processing. Electronic Circuits and Systems play important roles in power delivery and environmental sensing. Renewable energy, electric vehicles, data centers, edge computing, smart agriculture, and IoT systems are deeply embedded in our living environment, and all leave their own carbon footprints and material footprints Five renowned speakers will provide examples that describe the key opportunities and challenges they see from the perspective of each core community – Microsoft/CASS/PELS/SSCS/PES - and identify possible synergies. We will create interactive polls in the Zoom platform to collect audience feedback.

Learn More

23-26 October 2023: IEEE Online Forum on Climate Change Technologies

This online forum will highlight recent developments in IEEE technologies and solutions that promote climate stability. It will provide interesting and relevant keynote talks on technology. Roadmaps, panels, and subject-matter experts will provide vital information about climate change.

Learn More

Tuesdays in October: 10am EDT - Wildfire Webinar Series

The Wildfire Webinar Series will include the following 5 topical sessions: Wildfire and Climate Change; Industry Practices on Wildfire Prevention & Mitigations; Ensuring Safety of Battery Energy Storage Systems: Prevention & Mitigation Strategies; Impact of Wildfire Smoke on Solar PV Systems and Power Grid Stability; Improving Resilience in the Energy Sector against Wildfires on Alaskan Lands. Please save the date! Information and registration links will be available soon via the IEEE Climate Change Technical Community.

Learn More

Upcoming Events - In Person

27 September 2023: Biloxi, MS, USA - Design the Future Ocean - Opportunities for Ocean-based CDR

Hosted as part of the Technical Program during the OCEANS Gulf Coast conference organized by IEEE Oceanic Engineering Society and Marine Technology Society

While measuring and monitoring is a key enabler for CDR, society also needs a dramatically enhanced understanding of many more ocean processes to enable better management and policy decisions. Achieving order-of-magnitude improvements of ocean observations will require a combination of technological innovation, automation, and standardization, as well as scientific coordination and international collaboration. An example of this is the North Atlantic Carbon Observatory. The workshop will outline some of the technology needed to enable more effective ocean observations.

Learn More

19 October 2023: Boston, MA, USA - Workshop on Measurement, Reporting and Verification (MRV) Technologies for Marine Carbon Dioxide Removal (mCDR)

Held in collaboration with the Ocean Climate Solutions Summit and the IEEE Oceanic Engineering Society

The IEEE Climate Technologies Sustainability Initiative, in collaboration with the TA Climate Change Program and SA's Planet Positive 2030, seeks to contribute technical expertise and solutions to address sustainability challenges, including climate change. Registration for in-person workshops is free. Meals are provided. Registration will open soon until all slots are filled. Maximum: 30 participants

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24-27 October 2023: Milan, Italy - 2023 IEEE Vehicle Power and Propulsion (IEEE VPPC 2023)

The conference will bring together practicing engineers, researchers, and other professionals for interactive and multidisciplinary discussions on electrified vehicle power, propulsion, and related technologies. The main goal is to connect green e-motion worldwide in a complete network. It will include keynote papers by authoritative speakers, technical sessions, tutorial sessions, poster sessions, special and invited sessions, and exhibitions.

Learn More

Upcoming Events - Hybrid

6-8 September 2023: Canberra, Australia & Virtual - Climate Smart Futuristic Technologies and Sciences

Special track at TENSYMP23

Our changing environment is a major concern due to its impact on human health and existence of Mother Earth. Researchers can help to fight climate change by working on eco-friendly technologies and sciences. This track is focused on the futuristic area of science and technology along with implementing government policies and regulations to combat climate change and develop an ecosystem.

Learn More

1-3 November 2023: Cartagena, Columbia & Virtual - IHTC 2023 (International Humanitarian Technology Conference)

This inter-disciplinary conference series focuses on showcasing challenges, success stories, lessons learned, case studies, and technological innovation related to achieving the UN Sustainable Development Goals (SDGs), ICT4D, and the application of Humanitarian Technologies (including Disaster Relief and Disaster Recovery) and facilitating engagement by stakeholders from the public, private, education and research and societal sectors around the world. ITHC is a multi-regional conference series rotating between R7 (Canada), R8 (Africa, Europe and the Middle East), and R9 (Latin America and the Caribbean.

Learn More

Other Upcoming Activities

Deadline: 15 September 2023 - Call for TAB Committee on Standards Seed Funding Proposal

TAB Committee on Standards is looking for proposals from IEEE Societies and Councils (S/Cs) activities to: promote activities leading to a new standard development such as submission of a PAR to IEEE SA; publicize the importance of standards development through meetings, workshops or conferences; cultivate the interest in contributing to standards through various means such as participation recognition with certificates; prioritize on new applications for sustainability and cost effectiveness. For this call for proposal, topics of interests include but are not limited to the following: climate change such as clean energy; smart sensors; smart health; intelligent transportation; technology management; data analytics guidelines; open source; other areas promoted by technical committees of Societies/Councils/OUs. Awards are up to USD $10K. Projects must begin no earlier than 1 January 2024 and end no later than 31 December 2024.

Learn More

Deadline: 29 September 2023 - "Let's Make Light 2023" Competition

Organized by the IEEE Smart Lighting Initiative

The Future Directions Initiative on Smart Lighting invites you and your team to help bring light to some of the 94 million people without reliable electrical energy by entering this new competition in one of the following three focus areas ("tracks"): Environmentally Sustainable Technology; Sustainable Local Business; Self-Sustaining Market Expansion. Win cash prizes and continue to develop your idea with IEEE!

Learn More

Deadline: 1 November 2023 - EPICS in IEEE Call for Environmental Projects, Reviewers, and Mentors

EPICS in IEEE is supporting the IEEE commitment to help combat and mitigate the effects of climate change by hosting a call for environmental-focused service-learning projects. The Call for Proposals includes information about how you can create a team to design and develop an impactful environmental solution using engineering and technology. Through their service-learning projects, students will also develop critical knowledge and skills to help them succeed in their future engineering careers. Selected student projects will receive up to USD $10,000, mentorship, and resources. Help support this Call for Proposals, sign up to be a project proposal reviewer and/or a mentor, and register for the upcoming webinar on "How to Write an EPICS in IEEE Project Proposal."

Learn More

IEEE Climate Change Engagement Opportunities

- **Invite a Friend:** IEEE Climate Change Technical Community
- **Tell us** what is happening related to Climate Change Technologies in your IEEE Communities: IEEE Events & Activities Related to Climate Change