

The Committee on Engineering and the Environment aims to contribute to the achievement of the UN SDGs by harnessing the leading role of "environmental engineering technology, application, and demonstration" in promoting sustainable development.

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World Federation of Engineering Organizations (WFEO) Committee on Engineering and the Environment (CEE) Work Progress Report on WFEO-CCC Meeting

Dr. Yong GENG

- Acting Chair of WFEO-CEE
- > Dean of School of Environmental Science and Engineering at Shanghai Jiao Tong University (SJTU)
- Chair Professor of Shanghai Jiao Tong University (SJTU)

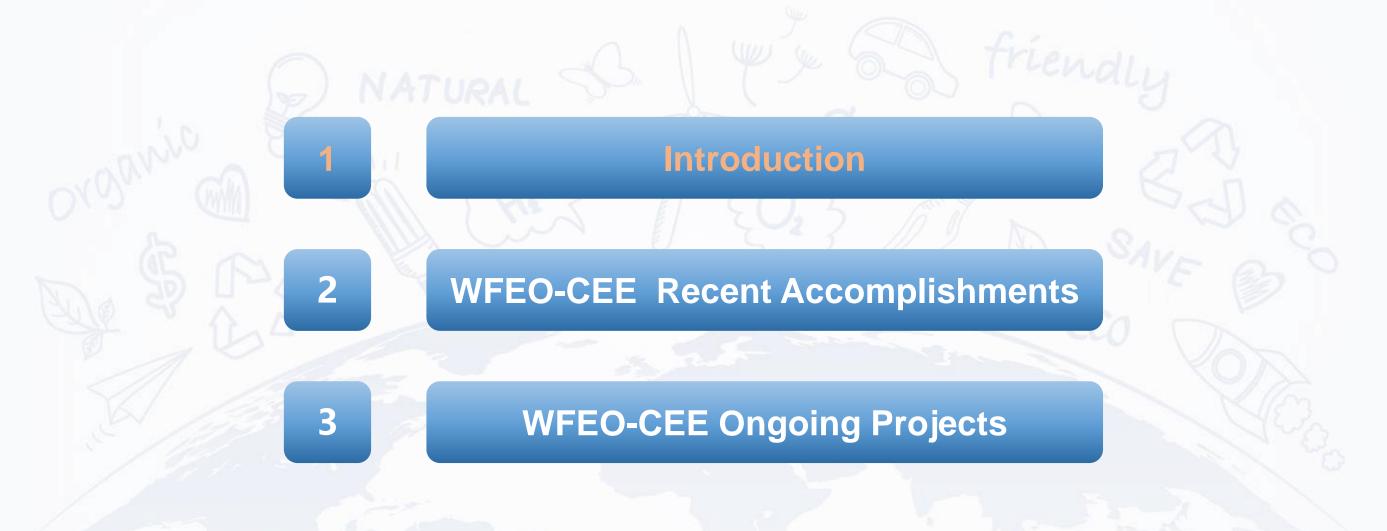




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World Federation of Engineering Organizations Committee on Engineering and the Environment



About Dr.Yong GENG

Research Fields

- Circular economy and industrial ecology
- Urbanization and sustainability
- Climate change mitigations
- Resource and environmental management

Internatinal Scientific Committee

Acting chair and chief scientist for WFEO-CEE; National consultant for UNIDO;

Lead Author for IPCC 5th & 6th Assessment Report;



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CEE Flagship Journal: Carbon Footprints (CF)

In April 2024, *Carbon Footprints* officially signed an agreement with WFEO and was launched as the **WFEO-CEE flagship journal**.





CEE Acting Chair

Designated journal of WFEO-CEE

- > Chief Editor: Prof. GENG Yong
- > Publisher: OAE Publishing Inc.
- > Website:

https://www.oaepublish.com/cf





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2024 SDG International Graduate Students Summer Bootcamp Program

Date: July 1 to July 14, 2024

Location: Shanghai, China



Jointly organized by Shanghai Jiao Tong University and WFEO-CEE, successfully builded an international platform for more than 30 young leaders from 7 different countries to delve into critical topics of sustainable development.





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International Conference on Urban and Community Carbon Neutrality

Date: 22-24 October, 2024

Location: Shenyang City, China



The conference is jointly organized by WFEO-CEE and Renewable Energy and Carbon Neutral Buildings Committee of the China Urban Science Research Society". We are hornored to have Ania Lopez, Executive Vice-President of WFEO, come to China for the conference.





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WFEO Elective President Tan Seng Chuan Visits Shanghai Jiao Tong University(SJTU)

Date: 11 November, 2024

Location: Shanghai, China



Mr. Tan Seng Chuan delivered an academic lecture to the School of Environmental Science and Engineering and held discussions with SJTU's President.The visit marks a significant step in enhancing **the partnership between WFEO and SJTU**, fostering **global cooperation** in addressing environmental challenges through engineering innovation and academic excellence.





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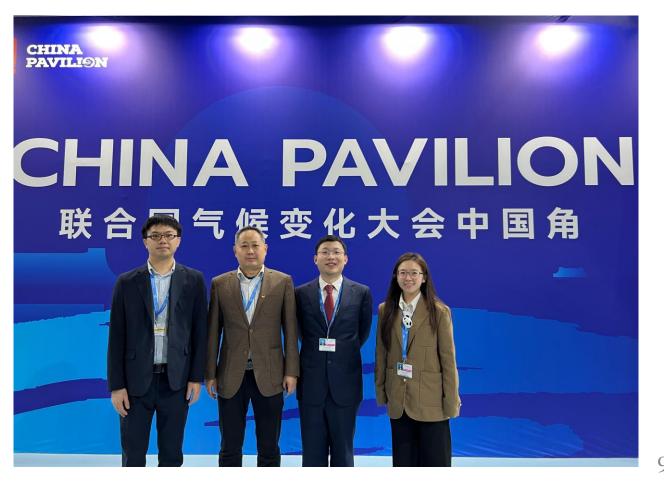
COP 29 Side Event

Date: November 18, 2024

Location: Baku, Azerbaijan

COP 29 Side Event

Date: 5:30 PM-7:00 PM, 18 November Location:Blue Zone, Baku Olympic Stadium Objective: Accelerating the Advancement of Green Low-Carbon Technologies in Industry and Construction to Address Global Climate Change Challenges"



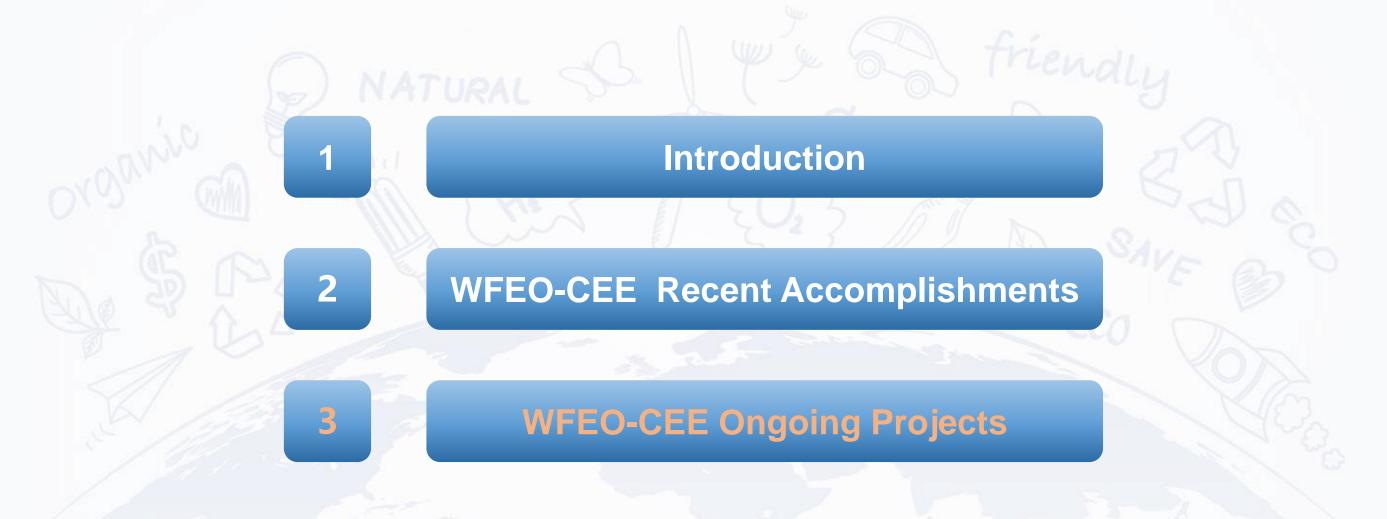




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2025 SDG International Graduate Students Summer Bootcamp Program

Date: June 30 to July 13, 2025

Location: Shanghai, China



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Environmental, Social, and Governance (ESG) Solutions for Resource and Climate Management



Course Description

The Global Summer School of the School of Environmental Science and Engineering will focus on sustainable levelopment, asploring multidimensional ssues such as climate drange, resource masagement, the circular community publices food systems, and healts. This course particularly enginastics the key role of Environmental local and Governance (ESG) in driving global sustainability, exploring how strategies such as ystematic resource mode wate management, low-achine occurrencik transformation, and global trade ophimization can achieve the sprengistic development of economic social, and environmental goals. We will analyze the interconnections collaborative efforts Detiveen businesses, governments, and society to address the camplex environmental bulaneous facions the world todar.

he correst will focul on how circular economy particles can facilitate the sprengies between memoreaugments and distant change responses parking the inspirate of dimate change and use transmission of augment have a factor of global value change, analyse the instruction between to how cathon economy and cardiar commung and examine the parkies and memorative parkies the analyse the latest the distant bulkers of and cardiar instructures. The course will also highlight the class connection between how systems and health, with a anticular force on instrume pathware to more global well-being and ustantiable food systems.

Through a combination of theoretical learning and practical case studies, the course will help students gain a deep understanding of the vital role of ESG in driving global sustainability transformations. It will also exapt students with the interdispolarus collaboration and innovative thrinking skills needed to tackle contemporary environmental challenges. Designed with a global perspective and emphasis on diverse cooperation, this course aims to culturate future leaders who can promote sustainable development and social progress in the context of globalization, environmental change, and resource constraints.

upcoming The 2025 Summer Bootcamp, themed "Environmental, (ESG) Social, Governance and Solutions for Resource and Climate Management." This program is open to students worldwide, aiming to strengthen global education on sustainable development, equipping students with the knowledge and skills to address critical ESG challenges in resource and climate management.





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2025 COP30 Side Event

Date: November, 2025

Location: Belém, Brazil



WFEO-CEE is actively applying to host a side event at COP30, aiming to contribute to global discussions on climate change and sustainable development. This event will provide a platform for sharing innovative solutions, best practices, and collaborative strategies to address pressing environmental challenges.





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GA& GEC Schedule (updated)

			Draft S	chedule - WFEO Shangh	ai General Ass	sembly meeti	ngs				
Data and Time	Sunday 12 October	Monday 13 October	Tuesday 14 October			Wednesday 15 October				Tuesday 16 October 2025	Friday 17 October 2025
9:00 ~10:30		Global Engineering Congress (Opening)	GEC 4 I Parallel Forums E	MMITTEE ON NGINEERING AND THE VIRONMENT - 30 pax	COMMITTEE ON ANTI- CORRUPTION - 30 pax	WFEO - United Nations Relations - 20 pax	Awards Committee - 20 pax	COMMITTEE ON INFORMATION AND COMMUNICATION - 30 pax	Innovation Lab	WFEO Executive Council Meeting	WFEO General Assembly meeting
10:30 ~ 10:50		Break	Break			Break				Break	Break
10:50 ~ 12:20		GEC Main Forum 1: Frontiers of Engineering and Technology Innovation	GEC 4	MMITTEE ON YOUNG President's NGINEERS/ Advisors FUTURE Committee - 30 EADERS - 30 Pax pax	COMMITTEE ON ENGINEERING FOR INNOVATIVE TECHNOLOGIES - 30 pax	All Committees' Chairs Committee - 30	Membership Committee - 20 pax	Nominations Committee - 20 pax	Innovation Lab	WFEO Executive Council Meeting	WFEO General Assembly meeting
12:20 ~ 14:00		Lunch	Lunch			Lunch					
14:00 ~ 15:30		GEC Main Forum 2: Developments of Green Engineering	Barallol E	DMMITTEE ON DUCATION IN IGINEERING 30 pax Executive Board -10 pax - Closed		Africa Projects Committee - 30 Pax	COMMITTEE ON DISASTER RISK MANAGEMENT - 30 pax	COMMITTEE ON ENERGY - 30 pax	Innovation Lab		WFEO General Assembly meeting (until 16h30)
15:30 ~ 15:50		Break Break			Break			Break	Break		
15:50 ~ 17:20 (18:00)		COMMITTEE ON WOMEN IN ENGINEERING 30 pax BUILDING - 30 pax	GEC Ma	ain Forum 3: Engineering capacity	WED Committee - 30 pax	Working Group on Climate Change - 30 pax		Innovation Lab		WFEO General Assembly meeting (17h30-18h30)	
19:00 ~ 20:00	Welcome Reception									WFEO Gala Dinner	



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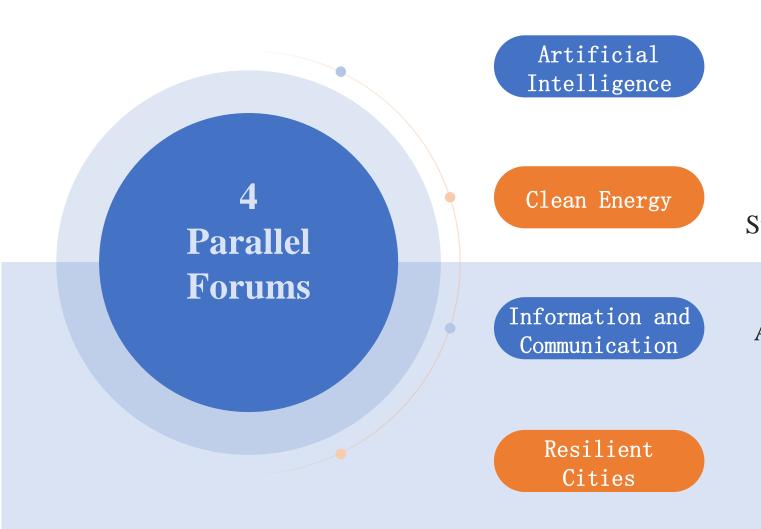
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Parallel Forums: Introduction



Theme: "Artificial Intelligence Engineering and Sustainable Development" Theme: "Engineering Innovation Supporting Clean Energy Development" Theme: "Next-Generation ICT Accelerating Sustainable Development

Goals"

Theme: "Building Climate-Resilient Urban Infrastructure"





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Parallel Forums: Guildlines

Call for papers and practical cases:

The forum will invite submissions of research papers and practical case studies.

Participation in Parallel Forums:

STCs are suggested to join the parallel forums that correspond closely to their specific domains or areas of interest.

• Open to All STCs

Supports from STCs:

STCs are warmly invited to support the forum by recommending **key speakers, papers and case studies** for the collaborative forums!

Please contact with: wanghaiyang@cast.org.cn





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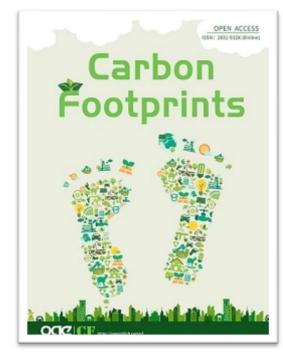
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Call for Papers: Carbon Footprints (CF)

ISSN 2831-932X (Online)

- **Objective:** The journal aims to advance understanding of carbon, energy, and air pollutant footprints, their interactions, and impacts on ecosystems, urban systems, and industrial services.
- Scope: (1) Ecosystems; (2) Urban Systems; (3) Industrial Systems; (4) Environmental and Resource Economics
 Publishing Model: Gold open access. All articles published by *CF* are made freely and permanently accessible online immediately from the date of publication.





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Ongoing Special Issues on Carbon Footprints (CF)

- Topic: Towards Sustainable Lithium-ion Batteries: Life Cycle Assessment and Emission Reduction Strategies
- 2. Topic: Decarbonization via Resources Recovery;
- 3. Topic: Global Sustainable Dietary Transition: Advances and Challenges;
- 4. Topic: Water and Wastewater Emissions: Advances and Challenges
- 5. Topic: The Race to Decarbonization in the Next Phase of Globalization
- 6. Topic: Exploring Urban Carbon Emissions: The Impact of Economic Development on Environmental Sustainability





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Special Issues on Carbon Footprints (CF)

- Topic: Integrated Assessment of Climate and Environmental Policy for a Carbon Neutral Future
- Topic: Impact of the Digital Economy on Urban Carbon Emission Reduction Strategies: Insights from AI
- 9. Topic: Challenges and Opportunities for Transport Carbon Neutrality
- 10. Topic: Global Disparities in Carbon Emissions and Footprints
- 11. Topic: Simulation and Assessment of New Energy Systems

Contact: ygeng@sjtu.edu.cn; carbonfootprints@oaemesas.com





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Thank you!

Look forward to meeting you at Shanghai, China!

