



**The First International Conference on
Chemical Weather and Chemical Climate (CWCC)
Science, Risks, Impacts, Health, and Governance Associated
with Multi-Scale Environmental Perturbations
Shanghai, China
16-20 October 2023**



We cordially invite you, experts from the scientific, and educational communities, practitioners engaged in climate, environment, and public health governance, representatives of the public and private sectors, and other stakeholders, to join us at the First International Conference on Chemical Weather and Chemical Climate (CWCC) in Shanghai, China, from 16 to 20 October, 2023. The conference focuses on Science, Risks, Impacts, Health, and Governance Associated with Multi-scale Climate and Environmental Perturbations, which are highly relevant to achieving carbon neutrality, social and economic sustainability, and planetary health. Recognizing the intricate interdependencies between climate change, air quality, and health, and their profound

implications for mitigation and adaptation, this conference is a collaborative effort between international organizations, government agencies, researchers and practitioners, and public and private sectors.

The conference aims to achieve the following objectives:

Research: Showcase recent scientific advancements in understanding the connections between atmospheric chemistry, climate change, and meteorological/hydrological extremes.

Forcing: Identify the underlying mechanisms that drive observed environmental changes associated with weather/climate and atmospheric composition. This includes exploring natural and anthropogenic contributions such as traffic and industrial emissions, urbanization, agriculture, etc.

Impacts: Evaluate the socio-economic ramifications of atmospheric and climate changes, including their effects on public health and biological productivity.

Societal responses: Determine how scientific breakthroughs can improve global governance and facilitate collaboration among scientists, technical professionals, and practitioners to accomplish the objectives outlined in international agreements.

Participation: Encourage early career scientists actively engage in interdisciplinary studies, fostering a collaborative environment.

We anticipate 800-1000 participants comprising esteemed experts in relevant fields, and representatives from international organizations, governmental agencies, and private sectors. The conference highlights will be compiled and published as special issues in peer-review journals.

Conference Chairs

- **Renhe Zhang**, Academician of Chinese Academy of Sciences (CAS), Vice-president of Fudan University
- **Guy Brasseur**, the Member of European Science Academy, Senior Professor of the Max-Planck Institute of Meteorology, Germany; Co-chair of Monitoring, Analysis, Prediction of Air Quality (MAP-AQ) Project, supported by World Meteorological Organization (WMO) and the International Global Atmospheric Chemistry (IGAC) Project
- **Juerg Luterbacher**, Chief Scientist and Director of Department of Science and Innovation, WMO

Conference Topics

The following topics will be covered at the conference:

- Emissions and physical-chemical transformations of atmospheric components
- Simulation and forecasting of chemical weather/climate and its impacts
- Environmental and health impact of air quality, climate change, and weather/climate extremes
- Strategies for reducing inequities
- Towards mitigation and adaptation to environmental changes
- Towards the development of climate-smart and sustainable cities
- Coordinative pathways for climate-environment-health governance
- Coordinative pathways for climate-environment-carbon neutrality governance
- Global partnerships for crosscutting approaches and collaboration with stakeholders

The Conference will feature oral presentations, roundtable discussions, and poster sessions. The detailed arrangement of the Conference will be included in the second round of announcements, scheduled for release on June 15, 2023.

Award for Early-career Scientists

We are delighted to present three early-career scientist awards to recognize the exceptional contributions of young researchers who have made significant strides in their respective fields. To be qualified, applicants must have received their Ph.D. degree no more than ten years before the conference.

Key dates

- First announcement date: 18 May 2023
- Second announcement date: 15 June 2023
- Notification of session changes: 20 June, 2023
- Abstract submission deadline: 10 August, 2023
- Early registration deadline: 30 September, 2023
- On-site registration date: 16 Oct. 2023
- Opening ceremony: 17 Oct. 2023
- Closing ceremony: 19 Oct. 2023
- Scientific tour: 20 Oct. 2023

Registration fee

Category		Early bird (before Sep 30)	Regular	Onsite
Normal Participants	Standard	CNY 2500 (US \$350)	CNY 3000 (US \$430)	CNY 3500 (US \$500)

	Low-income countries with GDP per capita < USD 8000 (according to World Bank database 2021)	CNY 1800 (US \$250)	CNY 2300 (US \$330)	CNY 2800 (US \$400)
Students	Standard	CNY 1500 (US \$220)	CNY 2000 (US \$290)	CNY 2500 (US \$350)
	Low-income countries with GDP per capita < USD 8000 (according to World Bank database 2021)	CNY 1000 (US \$145)	CNY 1200 (US \$170)	CNY 1500 (US \$220)

Sponsors/Hosts

Sponsors include Fudan University (FDU), the World Meteorological Organization (WMO), Air Quality Monitoring, Analysis and Prediction (MAP-AQ), Integrated Disaster Risk Research (IRDR), and other international organizations (TBD: June 15, 2023).

The Conference will be organized by Fudan IRDR ICoE on Risk Interconnectivity and Governance on Weather/Climate Extremes Impact and Public Health (Fudan IRDR ICoE-RIG-WECEIPHE) and MAP-AQ Asia Office at the working level. Co-organizers and supporting units will be announced in the following announcement.

Organizing Framework

An international academic committee, an international organizing committee and a local committee will be established to guide its programming, effective session organization and gaining expected outcomes of the conference.

Contacts

Please visit the conference webpage (to be released soon) or contact below persons for more information or registering your interest.

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