

# **The 9<sup>th</sup> International Conference on Air Benefit and Cost and Attainment Assessment**

**(ABaCAS 2021)**

November 8-10, 2021

Chengdu China

<http://abacas.see.scut.edu.cn/Conference2021/>

**(First Announcement)**

Following the previous eight successful ABaCAS conferences, the 9<sup>th</sup> Air Benefit and Cost and Attainment Assessment Conference (ABaCAS 2021) will be held on November 8-10, 2021 in Chengdu China. This conference will be hosted by Sichuan Academy of Environmental Sciences, Sichuan Environmental Sciences Society. The Conference aims at providing a high-level platform for scientists or policy makers from various fields and disciplines to discuss the atmospheric management strategy key issues related to energy, environment, and coordinated control of carbon neutrality with air pollution for city to area in China, or all over the world. In addition to the two-day conference (November 9-10), a one-day training workshop (November 8) on the “Air Benefit and Cost and Attainment Assessment System (ABaCAS)” will also be provided to air quality managers and scientists of interest with demo and hands-on sessions on cutting-edge air quality management and assessment systems for China.

## **Themes**

### **1. Economic development, energy consumption and pollutant emissions**

- Emission factors and emission source characteristic spectrum
- National & regional air pollutant and greenhouse gas emission inventory

- Economic development, energy consumption and pollutant emission prediction

## **2. Air quality, monitoring, modeling and forecasting**

- Development and evaluation of air quality models
- Ambient air monitoring and field studies
- Meteorology and air quality forecasting

## **3. Air pollution control cost and health benefit**

- Impact of air pollution on health and ecosystem
- Benefit assessment of air pollution control
- Cost estimate of air pollution control

## **4. Air pollution and climate change**

- Air quality and climate co-benefit
- Impact of Climate and Meteorology on Air Quality
- Effects of air pollution to climate

## **5. Regional assessment and control of PM<sub>2.5</sub> and ozone**

- Sources and causes of PM<sub>2.5</sub> and O<sub>3</sub> pollution
- Emissions and pollution control strategies
- Control policy and decision support platform

## **6. Carbon Peak and Neutrality**

- Climate, environment and ecological changes in the context of carbon neutrality
- Air Quality Improvement Action Plan for the 14th Five-Year Plan
- Low-carbon life and sustainable development

## **7. Application of Big Data and Artificial Intelligence in the Atmospheric Environment**

- Global data sharing under big data
- Application and Thinking of Artificial Intelligence in Atmospheric Warning and Forecast
- Intelligent interaction of atmospheric model

## **Important Dates**

- Formal conference: November 9-10, 2021
- ABaCAS Training Workshop: November 8, 2021
- Deadline for abstract submission: September 30, 2021
- Date notice for abstract acceptance: Before October 15, 2021
- Advance registration date: July 10-October 22, 2021
- Full registration date: October 23- November 9, 2021

## **Venue**

Celebrity City Hotel Chengdu (No. 122-124, Section 1, South Renmin Road, Chengdu, Sichuan)

## **Hosts**

- Tsinghua University, China
- Zhejiang University, China
- South China University of Technology, China
- University of Tennessee, USA

## **Organizers**

- Sichuan Academy of Environmental Sciences
- Sichuan Environmental Sciences Society

## **Supporters**

- Ministry of Ecology and Environment of China
- US Environmental Protection Agency
- Chinese Academy of Engineering
- Energy Foundation, USA

## **Conference Chairs**

- Academician Jiming HAO, Tsinghua University
- Academician Kefa CEN, Zhejiang University

## **Scientific Committees (In no particular order)**

- Yihui DING, China Meteorological Administration
- Hong HE, Research Center for Eco-Environmental Sciences, Chinese Academy of

Sciences

- Kebin HE, Tsinghua University
- Li'an HOU, The Second Artillery Engineering Design and Research Institute
- Wenqing LIU, Hefei Institutes of Physical Science, CAS
- Shu TAO, Peking University
- Jinnan WANG, Chinese Academy of Environmental Planning
- Qiao Wang, Ministry of Ecology and Environment Center for Satellite Application on Ecology and Environment
- Yuanhang ZHANG, Peking University
- Xiaoye Zhang, Chinese Academy of Meteorological Sciences
- Greg CARMICHAEL, The University of Iowa, USA
- Drew SHINDELL, Duke University, USA
- Armistead RUSSELL, Georgia Institute of Technology, USA
- Tyler FOX, U.S. EPA
- Carey JANG, U.S. EPA
- Jim KELLY, U.S. EPA
- Jeremy AVISE, California Air Resource Board
- Alex WANG, Univ. California, Los Angeles, USA
- Chatani SATORU, National Institute for Environmental Studies, Japan
- Hsing-Wei CHU, Lamar University, USA
- Jerry LIN, Lamar University, USA
- Jonathan PLEIM, U.S. EPA
- Joshua FU, University of Tennessee, USA
- Jung-Hun WOO, Konkuk University, Korea
- Peter LOUIE, Environmental Protection Department, Hongkong
- Rohit MATHUR, U.S. EPA
- Savitri GARIVAIT, KMUTT, Thailand
- Bui Ta LONG, HCMUT, Vietnam
- Thomas HO, Lamar University, USA
- Yang LIU, Emory University, USA
- Fahe CHAI, Chinese Research Academy of Environmental Sciences
- Chunyi CHEN, Guangdong Environmental Monitoring Center
- Changhong CHEN, Shanghai Academy of Environmental Sciences
- Jianmin CHEN, Fudan University
- Qingyan FU, Shanghai Environmental Monitoring Center
- Shaojia FAN, Sun Yat-sen University

- Xiang GAO, Zhejiang University
- Jingnan Hu, Chinese Research Academy of Environmental Sciences
- Penchi CHIANG, National Taiwan University, Taiwan
- Haidong KAN, Fudan University
- Hsin-Chih LAI, Chang Jung Christian University, Taiwan
- Yu LEI, Chinese Academy of Environmental Planning
- Li LI, Shanghai University
- Xin LIU, Energy Foundation, USA
- Min SHAO, Jinan University
- Shuxiao WANG, Tsinghua University
- Tijian WANG, Nanjing University
- Zifa WANG, Institute of Atmospheric Physics, CAS
- Siyue WANG, Institute of Atmospheric Physics, CAS
- Xuemei WANG, Jinan University
- Pinhua XIE, Hefei Institute of Physical Science, Chinese Academy of Sciences
- Wei LI, National Engineering Technology Center of Ecological Environment  
Pollution Source Monitoring
- Daiqi YE, South China University of Technology
- Hong YE, Sichuan Environmental Sciences Society
- Liuju ZHONG, Guangdong Environmental Protection Engineering Vocational  
College
- Yu ZHAO, Nanjing University
- Mei ZHENG, Peking University
- Tong ZHU, Peking University
- Yun ZHU, South China University of Technology
- Jun QIAN, Sichuan Academy of Environmental Sciences
- Junhui CHEN, Sichuan Academy of Environmental Sciences

## **Executive Committees**

- Shuxiao WANG, Tsinghua University
- Carey JANG, U.S. EPA
- Xin LIU, Energy Foundation, USA
- Yun Zhu, South China University of Technology
- Peter LOUIE, Environmental Protection Department, EPD
- Jia XING, Tsinghua University
- Yuqiang ZHANG, Duke University, USA

- Joshua FU, University of Tennessee, USA
- Jun QIAN, Sichuan Academy of Environmental Sciences
- Junhui CHEN, Sichuan Academy of Environmental Sciences
- Yingming HU, Sichuan Environmental Scientific Society

## **Languages**

Chinese

## **Abstract Submission**

In order to better organize the meeting and promote communication between participants, the conference organizing committee sincerely invites you to attend and submit abstracts. Please submit your abstract online through our conference website by September 30, 2021, or send it to: [scapc@tsinghua.edu.cn](mailto:scapc@tsinghua.edu.cn)

## **Registration**

**Website:** <http://abacas.see.scut.edu.cn/Conference2021/>

### **Registration fee:**

- Professional/Post Docs: ¥ 2500, Advance registration: ¥ 2200
- Student: ¥ 1500, Advance registration: ¥ 1200

\*Students may be asked for ID verifying your student status upon your arrival at the conference.

\*Registration fees include rental of conference venues, conference facilities. The travel and accommodation expenses of the delegates are self-supporting.

## **Air Benefit and Cost and Attainment Assessment (ABaCAS )**

### **Training Workshop**

Date: November 8, 2021 (Monday)

Venue: Celebrity City Hotel Chengdu (No. 122-124, Section 1, South Renmin Road, Chengdu, Sichuan);

Note: The ABaCAS Software package and training materials will be available for downloading at 'abacas.see.scut.edu.cn' one week before the meeting. Please download and install the ABaCAS package before attending the training workshop. The ABaCAS Training Workshop will mainly be conducted in Chinese.

## Conference Contact

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