

2025 International Conference on Surface Science Technology and Applications (ICSSTA 2025)

Conference Announcement

HangZhou, China July 18- July 21, 2025

Conference Theme: Innovation in Surface Science and Technology and International Exchange and Cooperation

Surface Science and Technology, as an interdisciplinary and comprehensive technology, mainly focuses on the study of various phenomena and processes occurring on the surface and interface at the atomic or molecular level. It has involved many basic and applied disciplines, including physics, chemistry, mathematics, material science, biology and engineering, and is one of the most active frontier disciplines in the world at present. It has now laid the foundation of technology development in modern industry.

In order to bridge the gap between the basic science of surface and interface and the wide applications of surface technology, the 1st International Conference on Surface Science Technology and Applications was held in 2023 in Chongqing, China. Following the successful ICSSTA 2023, the 2nd International Conference on Surface Science Technology and Application" (ICSSTA 2025), jointly organized by Southwest Institute of Technology and Engineering, Beihang University, Harbin Institute of Technology, Zhejiang University and other leading Chinese research institutions, will be held in Hangzhou, China from July 18 to 21, 2025.

Under the theme "Innovation in Surface Science and Technology and International Exchange and Cooperation", the conference will feature plenary and keynote presentations by academicians from the Chinese Academy of Sciences, Chinese Academy of Engineering, European Academy of Sciences, and renowned international experts. This gathering will facilitate extensive and in-depth exchanges among scholars, industry leaders, and researchers worldwide, focusing on the latest scientific achievements and industrial developments in surface science technologies. Through interdisciplinary dialogues and strategic partnership building, the conference aims to propel the high-quality advancement of this critical discipline.

Organizing Committee of the 2025 International Conference on
Surface Science Technology and Applications
February 18, 2025



Conference Organizers

1. Organizer (in random order):

Southwest Institute of Technology and Engineering
Tsinghua University
Beihang University
Zhejiang University
Harbin Institute of Technology
University of Science and Technology of China
Tianjin University
Southwest Jiaotong University
Institute of Corrosion Science and Technology
Lanzhou Institute of Physics, CAST
Zhejiang University of Technology
China Jiliang University
Southwest University of Science and Technology
Anhui University of Technology
SouthWest Petroleum University
Tianjin University of Technology and Education
Zhejiang Academy of Special Equipment Science
Chongqing Thermoacoustic Electric Control Engineering Technology Research Center
Weathering Test and Research Center of Science Technology and Industry for National Defense
Chongqing Society for Corrosion and Protection
Wanning National Field Scientific Observation Research Station for Material Corrosion in Atmospheric Environment
Jiangjin National Field Scientific Observation Research Station for Material Corrosion in Atmospheric Environment
Lasa National Field Scientific Observation Research Station for Material Corrosion in Atmospheric Environment
Mohe National Field Scientific Observation Research Station for Material Corrosion in Atmospheric Environment
Dunhuang National Field Scientific Observation Research Station for Material Corrosion in Atmospheric Environment

2. Host (in random order):

Chongqing Hongzhixin Information Technology Co., Ltd

3. Chairman:

Shengkai Gong (Academician of the Chinese Academy of Engineering)

4. Support media:

Surface Science and Technology
Surface Technology (EI)
Equipment Environment Engineering
Journal of Netshape Forming Engineering
Packaging Engineering
Ordnance Material Science and Engineering
Development and Application of Materials
Vacuum and Cryogenics
"Science, Industry, Innovation, and Sharing" Official Account

Theme Forum

Forum: Surface Alloying Technology and Engineering Applications

Presidents:

Zhongsheng Li, Southwest Institute of Technology and Engineering

Conveners:

Dalong Cong, Southwest Institute of Technology and Engineering

Host:

Southwest Institute of Technology and Engineering

Forum: Surface Atomic Level Manufacturing and Testing

Presidents:

Bingfeng Ju, Zhejiang University

Yang Ju, Zhejiang University

Conveners:

Bingfeng Ju, Zhejiang University

Yang Ju, Zhejiang University

Host:

Zhejiang University

Forum: Laser Surface Manufacturing and Remanufacturing

Presidents:

Jianhua Yao, Zhejiang University of Technology

Conveners:

Qunli Zhang, Zhejiang University of Technology

Zhehe Yao, Zhejiang University of Technology

Host:

Institute of Laser Advanced Manufacturing, Zhejiang University of Technology

Forum: Energy Field Composite Surface Modification Technology

President:

Zhongyu Piao, Zhejiang University of Technology

Jie Jin, Tsinghua University

Conveners:

Cong Ding, Zhejiang University of Technology

Wentao Hou, Zhejiang University of Technology

Zhenyu Zhou, Zhejiang University of Technology

Dameng Liu, Tsinghua University

Host:

School of Mechanical Engineering, Zhejiang University of Technology

Tsinghua University

Forum: Advanced Thermal Spray Technology and Engineering Applications

Presidents:

Shihong Zhang, Anhui University of Technology

Guanjun Yang, Xi'an Jiaotong University

Lee Sunghun, KIMS

Conveners:

Zhaolu Xue, Anhui University of Technology

Xiaofeng Zhang, Institute of New Materials, Guangdong Academy of Sciences

Xinyu Cui, Institute of Metals Research, CAS

Qing He, Beijing Jinlun Kuntian Special Machinery Co., Ltd.

Host:

Anhui University of Technology

Forum: Physical Vapor Deposition Technology and Its Applications

Presidents:

Tiegang Wang, Tianjin University of Technology and Education

Qimin Wang, Guangdong University of Technology

Conveners:

Tiegang Wang, Tianjin University of Technology and Education

Qixiang Fan, Tianjin University of Technology and Education

Jun Zheng, Anhui University of Technology

Host:

Tianjin University of Technology and Education (Tianjin Key Laboratory of Advanced Manufacturing Technology and Equipment)

Forum: High Temperature Coating

President:

Hongbo Guo, Beihang University

Conveners:

Yaming Wang, Harbin Institute of Technology

Aiying Wang, Ningbo Institute of Materials Technology & Engineering, CAS

Lu Wang, Liaoning Academy of Materials

Qiangang Fu, Northwestern Polytechnical University

Xiaofeng Zhao, Shanghai Jiao Tong University

Lei Guo, Tianjin University

Host:

Beihang University

Forum: Optoelectronic Functional Thin Films and Devices

President:

Jiaqi Zhu, Harbin Institute of Technology

Conveners:

Jiaqi Zhu, Harbin Institute of Technology

Zhongming Wei, Institute of Semiconductors, CAS

Wenyong Lai, Nanjing University of Posts and Telecommunications

Ling Wang, Tianjin University

Hosts:

School of Astronautics, Harbin Institute of Technology

Harbin Institute of Technology Zhengzhou Research Institute

Forum: Surface Behavior and Advanced Surface Technology

Presidents:

Jiaxin Yu, Southwest University of Science and Technology

Guoqiang Li, Southwest University of Science and Technology

Convener:

Yafeng Zhang, Southwest University of Science and Technology

Host:

Southwest University of Science and Technology

Forum: Wear Resistant and Friction Reducing Surface Engineering

Presidents:

Minhao Zhu, Southwest Jiaotong University

Junyan Zhang, Lanzhou Institute of Chemical Physics, CAS

Yong Sun, De Montfort University

Conveners:

Hongxuan Li, Lanzhou Institute of Chemical Physics, CAS

Xiaoqiang Fan, Southwest Jiaotong University

Qi Sun, Southwest Jiaotong University

Host:

Southwest Jiaotong University

Forum: Corrosion and Protection of Oil and Gas Energy

Presidents:

Huaiyuan Wang, Tianjin University
Frank Cheng, University of Calgary
Anqing Fu, CNPC Tubular Goods Research Institute

Conveners:

Huaiyuan Wang, Tianjin University
Frank Cheng, University of Calgary
Anqing Fu, CNPC Tubular Goods Research Institute

Host:

Tianjin University

Forum: Energy Conversion Surface Technology and Application for Carbon Neutrality

Presidents:

Junlei Tang, SouthWest Petroleum University
Guanjun Yang, Xi'an Jiaotong University
Zhiyi Lu, Ningbo Institute of Materials Technology & Engineering, CAS

Conveners:

Bing Lin, SouthWest Petroleum University
Yunze Xu, Dalian University of Technology
Yingying Wang, Jiangnan University

Host:

SouthWest Petroleum University

Forum: Design and Manufacturing of Biomimetic Functional Surface Materials

Presidents:

Jing Wang, Shanghai Jiao Tong University
Moyuan Cao, Nankai University

Conveners:

Jing Wang, Shanghai Jiao Tong University
Moyuan Cao, Nankai University

Host:

Shanghai Jiao Tong University

Forum: Surface & Interface Chemistry and Catalysis

Presidents:

Weixin Huang, University of Science and Technology of China

Jeong Young Park, KAIST
Fan Yang, ShanghaiTech University

Conveners:

Kun Qian, University of Science and Technology of China
Zongfang Wu, University of Science and Technology of China

Host:

Key Laboratory of Precision and Intelligent Chemistry, University of Science and Technology of China

Forum: Surface and Interface Electrochemical Science and Technology

Presidents:

Guoying Wei, China Jiliang University
Chengbin Jin, China Jiliang University

Conveners:

Zhongquan Zhang, China Jiliang University
Gongxun Lu, China Jiliang University

Host:

China Jiliang University

Language

Chinese and English, simultaneous interpretation available

Timetable

Timetable: July 18, 2025 -Registration

July 19, 2025 - Plenary Session

July 20, 2025 -Reports on Academic Forum

July 21, 2025 -Closing & Evacuation

Conference Registration: Log in to the conference website <https://icssta2025.scimeeting.cn/>, register and sign up

Representative type		Pre registration (Before May 30th, 2025)	On-site registration
Ordinary delegates	Attend/Submit to conference proceedings	¥ 2200 元	¥ 2500 元
	Attend+ Submit to IOP	¥ 3200 元	¥ 3500 元
Student delegates	Attend/Submit to conference proceedings	¥ 1600 元	¥ 1900 元
	Attend+ Submit to IOP	¥ 2600 元	¥ 2900 元