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CAST Newsletter

Special Issue

CAST International Month 2025:
Key achievements



THE INTERNATIONAL
MONTH 2025

Openness Cooperation Trust

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Leadership Messages

President Xi Jinping's messages on openness, trust and cooperation in science

China has long pursued scientific and technological innovation with a global outlook. President Xi Jinping has emphasized this commitment, noting: “We must stay open to the world and to the future, strengthen openness, trust and cooperation with the global scientific community, and make greater contributions to building a modern socialist country and a community with a shared future for humanity.”

President Xi's messages to the international scientific community highlights a shared aspiration around the world: advancing human well-being through science and technology. Let us revisit these important words.

Congratulatory Letter to World Conference on Science Literacy September 17, 2018

Science and technology are fundamental drivers of productivity, and innovation is the primary engine of development. Today, a new wave of global scientific and technological transformation is rapidly unfolding, reshaping global development and profoundly changing how people live and work. Strengthening collaborative innovation across scientific and technological sectors and throughout society, as well as advancing openness and cooperation among nations, are essential pathways to ensuring that science and technology better serve the progress of humanity.

China places great importance on science popularization and continues to advance the science literacy of its people. It also actively promotes science communication with countries around the world, sharing its experience in improving public science literacy to support shared development and mutual prosperity. I hope that all participants at this conference will engage fully in exchange on disseminating scientific knowledge, fostering the scientific spirit, encouraging scientific thinking, and promoting the use of scientific methods. Your efforts will help raise public science literacy, promote the sharing of scientific achievements, and contribute to building a community with a shared future for humanity.

Congratulatory Letter to 2019 World New Energy Vehicle Congress July 2, 2019

As a new wave of scientific and technological revolution and industrial transformation accelerates, the new energy vehicle industry has entered a new stage of rapid development. This sector not only injects strong momentum into economic growth worldwide, but also helps reduce greenhouse gas emissions, address the challenges of climate change, and improve the global ecological environment.

China remains firmly committed to a green, low-carbon and sustainable development path. We stand ready to work with the international community to advance technological innovation in new energy vehicles and promote the growth of related industries, contributing to a clean and beautiful world and to the building of a community with a shared future for humanity. I hope that all participants will engage in meaningful dialogue, build consensus, and deepen cooperation in the new energy vehicle sector, so that the benefits of scientific and technological innovation can better serve people around the world.

Congratulatory Letter to First World Science and Technology Development Forum October 16, 2019

A new round of scientific and technological revolution and industrial transformation is steadily taking shape. The deep integration of science and technology with the economy, society, culture, and the environment is profoundly influencing the evolution of human civilization and the development of global governance. Advancing sustainable development through scientific and technological innovation has become a necessary pathway for addressing many major global challenges faced by all countries.

China has always upheld openness and cooperation, consistently aligning its own national development strategies and domestic realities with the United Nations 2030 Agenda for Sustainable Development. We strive to pursue development that is more quality-driven, efficient, equitable, and sustainable. I hope this forum will encourage scientists, educators, and entrepreneurs from around the world to work together, build consensus, exchange ideas, and deepen cooperation, contributing wisdom and strength to the building of a community with a shared future for humanity.

Congratulatory Letter to the World Young Scientist Summit 2019 October 26, 2019

A new round of scientific and technological revolution and industrial transformation is advancing with great momentum. The future of science and technology rests with young people. Promoting dialogue between science and the humanities and fostering innovation and collaboration among the youth are shared aspirations of all nations. I hope that participants will engage actively under the theme “Converging the World’s Talents, Creating a Better Future,” learning from one another, strengthening friendships, and deepening cooperation. May this summit empower younger scientific and technological talent to pursue their aspirations and fulfill their dreams and may scientific and technological innovation continue to drive economic and social development as we work together to build a brighter future for humanity.

October 2025: A month marked by openness and cooperation



科技为舟载天下·人文作楫济未来

—— S.T.I.: BRIDGES, HUMANITY ORIENTS ——

中国科协2025 “开放合作月”

中国科协2025年“开放合作月”
(The International Month 2025: Openness,
Cooperation, Trust) 于10月全面拉开帷幕,
主题为“科技为舟载天下, 人文作楫济未来”。

十月正值金秋, 既是丰收的象征, 也寓意
科技创新成果的共享与转化。

此外, “OCT” 不仅是十月的英文缩写, 更
与“开放合作月”的核心理念开放(Openness)、
合作(Cooperation)、信任(Trust)的首字母
一致, 体现了中国科协对国际科技界的诚挚邀
约——每年十月广邀全球科技工作者共同交流、
共谋发展、共话未来, 为全人类福祉共享基础
研究和科技创新经验成果, 持续增进国际科技
界开放、信任、合作。

Conferences Recap

CAST International Month 2025: Key achievements

Flagship Conferences on Science Diplomacy

WNEVC

September 27-29

2025 World New Energy Vehicle Congress

1

Hosts: CAST, Hainan Provincial Government, China's Ministry of Science and Technology and Ministry of Industry and Information Technology

Scale: Nearly 780 participants, including 83 international attendees

Participating Countries/Regions: 25

Major Release: Consensus on the 2025 World New Energy Vehicle Congress

Academic Outputs:

Selection of nine innovative NEV technologies:

- Continuous Megawatt Charging Technology with Multi-level Power Fueling Management & Fully Liquid Cooling Architecture
- High-Efficiency & High Power Density Amorphous-Carbon Fiber E-Drive Technology
- Lithium-ion Battery Digital and Intelligent Design Technology
- One-stage End-to-End Big Model Full-Scenario Mass Production Assisted Driving Solution
- Intelligent Fully Active Body Control System Technology
- Key Technologies for Intelligent Battery System of Passenger Vehicles with High Safety and Long Life
- AI-oriented Full-domain Operating System for Smart EVs
- High-Performance Central Architecture Driving Chassis Control System
- AI-Oriented High-Safety & Security High Performance Microcontroller

Selection of nine cutting-edge NEV technologies:

- Quantum Correlation Imaging Technology
- Key Technologies for High-Bandwidth Optical Communication in Vehicles
- AI-based Large Model Technology for Next-Generation Batteries
- Embedded Wide-Bandgap Power Module Integration Technology for Vehicle Inverters

- High-Safety, Low-Latency Integrated Intelligent Brake-and-Drive Unit Technology
- Human-like Predictive Decision-making and Joint Optimization Technology for Autonomous Driving
- Accelerated Testing and Evaluation Technology for Autonomous Driving in Extreme Scenarios
- Automotive Information Security Technology Based on Quantum Cryptography
- Ion Polymer Technology for Medium-Temperature Proton Exchange Membrane Fuel Cells

Organizations and Platforms Launched:

- World New Energy Vehicle Development Organization (WNEVDO)
- Hainan Vehicle Modification Alliance
- Technical Service Center for Intelligent Connected Vehicles

Key Agreements:

- Strategic cooperation among Hainan Provincial Department of Industry and Information Technology, Hainan Provincial Department of Transportation and China Auto Renting
- Investment cooperation between Longhua District Government in Haikou and Era Electric Service Technology
- Strategic cooperation framework among Chengmai County Government, Hainan Logistics and Amperex Technology Limited
- Strategic cooperation between Hainan Logistics and Contemporary Amperex Technology Limited (CATL)

Sessions and Presentations: The congress featured three plenary meetings, 14 thematic forums, one spotlight dialogue, one high-level closed-door meeting, and one working-group session, with more than 190 presentations.

Learn more: <https://www.wnevc.org.cn/EN/Home/>



October 12-17

World Federation of Engineering Organizations 2025 General Assembly

2

Hosts: World Federation of Engineering Organizations, CAST, Chinese Academy of Engineering, and Shanghai Municipal Government

Scale: Nearly 760 participants, including 300 international attendees

Participating Countries/Regions: 59

Major Release: Shanghai Declaration “Taking Action: Engineering Shapes a Green Future

Academic Outputs: Top 10 Global Engineering Achievements of 2025

Key Agreements: CAST signed memorandums of understanding with the Federation of African Engineering Organizations and the Federation of Arab Engineers.

Papers and Posters: A total of 86 papers were accepted—45 international and 41 domestic—covering topics such as green engineering development, artificial intelligence, clean energy, information and communication technologies, resilient cities, and resource recycling.

Sessions and Presentations: The event featured three plenary sessions, four parallel forums, three side events, 31 mechanism-based working meetings, seven workshops, with over 400 presentations.

Learn more: <http://sh.people.com.cn/n2/2025/1014/c138654-41379288.html>

**WYSS****World Young Scientist Summit 2025**

3

October 24-26

Hosts: CAST and Zhejiang Provincial Government**Scale:** Nearly 800 participants, including 276 international attendees**Participating Countries:** 47**Major Releases:**

- International Consensus on Youth Innovation and Entrepreneurship
- Action Initiative for Joint Development between Young Scientists and Academic Journals
- Global Young Scientists Pioneer List 2035
- 2025 China Emerging Stars in Brain-Machine Intelligence

Academic Outputs:

- Survey Report on Growth and Development of Early-Career Scientists Worldwide
- Global Distribution and Mobility of Young Scientists in Artificial Intelligence
- Blue Book on China's Biopharmaceutical Innovation Environment

Organizations and Platforms Launched:

- International Competency Talent Training Base
- Wenzhou Medical University-Ouijiang Laboratory Institute for Integrated Biomedical Science Education
- WYSS Entrepreneurship Foundation Alliance
- Joint Talent Development and Innovation Center for Top Scientists (Zhejiang)

Programs Launched:

- World Young Scientists Innovation and Entrepreneurship Growth Support Program
- Digital-Intelligent Green Energy Spark Program
- AI Spark Program

Key Agreements:

- MoU between the Zhejiang Association for Science and Technology and IOP Publishing (UK) on co-publishing a new English-language journal
- Strategic agreements between the WYSS Entrepreneurship Foundation and Yunphant Network Technology
- Strategic agreements between the WYSS Entrepreneurship Foundation and Celliver Biotechnology
- Strategic agreement between the WYSS Entrepreneurship Foundation and Molar Intelligence
- Cooperation agreement among the Lucheng District Government (Wenzhou), the Foundation for the Development of Science and Technology in China, and Bird Lab
- Cooperation agreement for winning projects of the Zhejiang Women's Innovation and Entre-

preneurship Competition

- Cooperation agreement for women's sci-tech innovation project implementation
- Agreement establishing the Zhejiang Myopia Prevention and Control Capacity Building Alliance
- Zhejiang province school-local government and department cooperation agreement
- Agreement establishing the Cuba-China Joint Translational Research Center for Alzheimer's and Other Neurodegenerative Disorders
- Strategic cooperation agreement to establish an FGF (Fibroblast Growth Factor) Research Group among Wenzhou Medical University, Ou Hai District Government, and Wenzhou Industry & Energy Development Group
- Framework agreement among the Department of Price of the National Development and Reform Commission, Shanghai University of Finance and Economics, Xidian University, and China (Wenzhou) Digital Security Port to establish a Data Value Analysis and Assessment Laboratory
- Cooperation agreements with sci-tech ecosystem enterprises

Papers and Posters: A total of 15 papers were collected, covering materials science, energy engineering, bioinformatics, robotics, industrial inspection, and other key areas.

Sessions and Presentations: The program included one plenary session, 16 parallel sessions, and three Universal Gravity π Showcase & Exchange Events, with over 100 presentations.

Learn more: <https://www.wyss.org.cn/2024/cn/xwzx/xwzx/index.html>



October 27-29

2025 World Science and Technology Development Forum

4

Host: CAST**Scale:** Nearly 800 participants, including 120 international attendees**Participating Countries/Regions:** 33

Academic Outputs:

- IUPAC's 2025 Top Ten Emerging Technologies in Chemistry
- Global-Scale Sustainable Development Scientific Monitoring Report (2025): A Decade of Progress through the Lens of Earth Big Data
- Research on the Application of AI Technology in the Hydrogen Energy Sector
- Template for Smart Manufacturing Use Cases and Smart Manufacturing—Guidelines for the Usage of New Technologies
- Open Knowledge and Data-Sharing Platform—Open for Science

Sessions and Presentations:

The forum featured one plenary session, 10 parallel sessions, and two mechanism-based international science and technology exchange activities, with more than 60 presentations. Keynote speeches at the opening ceremony included:

- Artificial Intelligence and Science: Prospects and Concerns
- Progress Toward the Sustainable Development Goals
- AI-Driven Industrial Transformation in Developing Countries
- Computing and AI: Technological Revolution, Industrial Transformation, and Sustainable Development
- Geographic Thinking in the Digital Age: Integrating Technology and Sustainability
- Deep Learning Technologies Empowering Digital-Intelligent Industrial Transformation

Learn more: <https://www.wstdf.com.cn/news>

Dialogue on Science Driving Future Development

IEA NBC TASK 20/IEA-ANNEX 90
CENTROCARD

September 22-27

2nd Conference of Low-Carbon Building Daylighting, Shading and BIPV

5

Hosts: China Illuminating Engineering Society and Hunan University

Highlights: The conference was held in a hybrid format, with more than 80 international experts participating online and over 80 attendees from China and abroad joining onsite. It was organized under two major collaborative frameworks: the IEA Solar Heating and Cooling Technology Collaboration Programme project “Low-Carbon, High-Comfort Daylighting and Lighting and the China-Austria intergovernmental industry-academia-research project “Integrated Low-Carbon Solutions for Transparent Composite Building Envelopes, part of China’s National Key R&D Program for international S&T cooperation. Focusing on cutting-edge advances in sustainable, low-carbon building technologies, the conference highlighted the deep integration of science, technology, and culture. Discussions spanned transparent building envelope systems, high-comfort daylighting and lighting technologies, simulation tools and software development, visual and non-visual user needs, building shading solutions, and building-integrated photovoltaics, along with best-practice case studies. Experts from multiple countries shared insights, supported enterprise R&D, promoted the demonstration and application of key technologies, and strengthened international collaboration—contributing to carbon-peaking and carbon-neutrality goals in the building sector.

Learn more: <https://mp.weixin.qq.com/s/KvqNDInQ3namjLtoU2xjVg>



September 24-25

2025 International Conference on New Power System Technology

6

Hosts: Chinese Society for Electrical Engineering and International Council on Large Electric Systems (CIGRE) China National Committee

Highlights: Nearly 600 participants attended the conference, including 10 international guests. With technical support from the IEEE Power & Energy Society (IEEE PES), the event focused on the theme A New Type of Green, Intelligent, and Safe Power System. Seven distinguished academy members from China and abroad delivered keynote speeches. The program also included nine thematic sessions, 17 specialized workshops, and seven groups of paper and poster presentations. The conference brought together global experts, scholars, industry leaders, and engineering professionals in the power and energy sector to examine key technologies, major challenges, and future directions for building new-type power systems, providing valuable insights for the global energy transition and sustainable development. During the event, the Chinese Society for Electrical Engineering signed a memorandum of understanding with the Institution of Engineers Malaysia (IEM).

Learn more: https://mp.weixin.qq.com/s/LQ-MCFgI-vE_VqcWJgNmVA



October 9-12

2025 International Conference of Physiological Sciences

7

Host: Chinese Association for Physiological Sciences

Highlights: Nearly 600 participants attended the conference, including 17 international guests. With academic exchange at its core, the event brought together 157 speakers from 13 countries and regions. The program featured seven parallel sessions and 34 thematic presentations, and the poster area displayed 395 posters in groups across two days (October 10-11). The conference placed strong emphasis on cultivating young talent, providing early-career researchers with a platform to present their work, exchange ideas, and broaden their academic horizons. By encouraging the wider application of physiological science, the event fostered multidisciplinary collaboration and pooled global expertise to explore new directions for advancing the field.

Learn more: https://mp.weixin.qq.com/s/1O22uVSjWQRMcLSI00FXGg?scene=1&click_id=19



October 10-12

International Conference on Electro-magnetic Field Problems and Applications

8

Host: China Electrotechnical Society

Highlights: This year's conference brought together more than 100 leading scholars and industry experts from China and abroad. Focusing on frontier topics—including electromagnetic field analysis and synthesis, EM testing and sensing, power transmission and conversion, electromagnetic regulation and applications, and bioelectromagnetics—participants engaged in extensive academic exchange. The program featured 13 keynote lectures, 21 invited talks, 56 presentations, 70 posters, seven pre-conference technical workshops and thematic sessions, and a technical tour of China's national ground-based space environment simulation and research infrastructure facility.

Learn more: <https://mp.weixin.qq.com/s/QA3pdH5jwmWXZrGdK8CO9w>



October 10-12

International Symposium on Advances in Biomedical Research

9

Host: Chinese Society for Biomaterials

Highlights: A total of 225 guests attended the symposium, including 25 international participants. The CSBM-SFB Joint Forum highlighted cutting-edge innovations and translational applications in medical devices, drug delivery, and regenerative medicine. The inaugural CSBM-JSB Joint Forum presented advances in hard-tissue repair materials, biomedical metals, and surface-modification technologies. At the CSBM-KSBM Joint Forum, young scientists shared research on cell-derived nanodiscs, bone organoids, and smart hydrogels, expanding the use of biomaterials in tissue engineering and precision medicine. The symposium delivered strong achievements, deepening international collaboration along the full innovation chain—from materials design to clinical translation.

Learn more: <https://mp.weixin.qq.com/s/NT3muD6cbbAqsD-RxufOiQ>



October 14-17

World Materials Conference 2025

10

Hosts: Chinese Materials Research Society and International Union of Materials Research Societies (IUMRS)

Highlights: Nearly 800 guests attended the conference, including 200 international participants. The event brought together leading materials scientists from more than 50 countries. Distinguished experts—including Wei Bingbo, President of the Chinese Materials Research Society and a member of the Chinese Academy of Sciences (CAS), and P. S. Anil Kumar, President of IUMRS—examined six major frontier areas, including advanced energy materials. In a milestone decision, IUMRS members unanimously approved the relocation of the organization’s headquarters to China starting in January 2026, marking a significant expansion of China’s global influence in materials science. For the first time, the conference launched an AI-powered matchmaking system to support academic collaboration. Several groundbreaking interdisciplinary achievements were also released, including analyses of 10,000-year-old pottery, highlighting the growing integration of materials science with real-world applications.

Learn more: <https://m.chinanews.com/wap/detail/chs/zw/10499229.shtml>



October 15-18

17th International Congress of Toxicology

11

Hosts: Chinese Society of Toxicology and International Union of Toxicology

Highlights: Nearly 750 participants attended the congress, including 250 international guests. Under the theme “Toxicology for Safe Environment & Healthy Life, the event brought together experts and scholars from 64 countries. It delivered a rich program featuring 10 keynote lectures by leading international experts, more than 50 thematic sessions, and 267 presentations covering frontier areas such as environmental toxicology, nanotoxicology, and artificial intelligence. More than 60 companies participated as exhibitors and partners, strengthening collaboration across industry, academia, and research and injecting strong momentum into innovation in toxicology.

Learn more: <https://mp.weixin.qq.com/s/b0VcLgL3ysv1r2Gogp4ufQ>



2025 (5th) International Conference on Non-Ferrous Materials

12

Host: Nonferrous Metals Society of China

October 16-19

Highlights: Nearly 800 participants from eight countries attended the conference, including 25 international guests. The event gathered leading experts from around the world, among them Chinese Academy of Engineering (CAE) members Nie Zuoren, Yang Deren, and Xie Jianxin, as well as distinguished scholars such as John Perepezko of the US National Academy of Engineering, Shuichi Iwata of the Engineering Academy of Japan, and Konstantin Grigorovich of the Russian Academy of Sciences. Experts presented cutting-edge advances in areas such as low-carbon circular materials, ultra-high-temperature alloy design, AI-driven materials innovation, and additive manufacturing for nonferrous metals. Thematic forums further explored key topics including structural, functional, and environmental materials. The conference also recognized outstanding scientific achievements and young researchers, strengthening international collaboration across industry, academia, and research and injecting new momentum into the high-quality development of the nonferrous metals sector.

Learn more: <https://mp.weixin.qq.com/s/j7MjeUXQuAN26MmEzqXpAA>



2025 International Conference on Reliability Science and Engineering of Complex Systems

13

Host: Chinese Institute of Command and Control

October 17-18

Highlights: Nearly 300 participants from four countries attended the conference, which received close to 70 paper submissions. Bringing together leading experts from China and abroad, the event delivered several notable outcomes. It released the first set of 20 standards on reliability and safety of complex systems, with more than 20 additional standards forthcoming. These standards reflect two key advances: the application of artificial intelligence for fault prediction and precise fault localization, and the Certainty Reliability Theory developed by Beihang University, which provides a new approach to assessing the reliability of high-value complex systems, including defense equipment. Three new books were also launched: *Smart Prognostics—A Lifecycle Interpretation and Practice of Equipment Fault Prediction and Health Management*; *The Golden Rules of Reliability Empowering Excellent Enterprises*; and *Complex Network Theory and Intelligent Software Analysis*. These outputs highlight the rising trend of “intelligent reliability and reliable intelligence, while significantly advancing international exchange and cross-disciplinary collaboration in the field.

Learn more: https://mp.weixin.qq.com/s/bbylOR_Wi1Fr8roQnNW9LQ



October 17-19

7th International Conference on Electrical Engineering and Information Technologies for Rail Transportation

14

Hosts: China Electrotechnical Society and State Key Laboratory of Advanced Rail Autonomous Operation of Beijing Jiaotong University

Highlights: The conference brought together nearly 250 experts and scholars, including 15 international participants. Keynote speakers explored frontier topics such as rail transit operations and management, system safety and maintenance, traction and energy systems, advanced automation and information technologies, and intelligent O&M solutions for rail transit infrastructure. Nine parallel forums were held, with nearly 50 experts engaging in in-depth discussions on emerging areas including new traction and power-supply technologies, flexible train formation and intelligent scheduling, and magnetic-levitation systems. Paper presentations and award sessions further fostered academic innovation, providing strong intellectual support for the green and smart development of modern rail transit.

Learn more: https://mp.weixin.qq.com/s/GU97Iua2OowGgfX4dSecA?scene=1&click_id=86

APPC16THE 16TH ASIA PACIFIC
PHYSICS CONFERENCE

第十六届亚太物理会议

October 19-24

16th Asia Pacific Physics Conference

15

Hosts: Chinese Physical Society and Association of Asia Pacific Physical Societies

Highlights: The conference brought together more than 750 physicists from universities and research institutes worldwide, including 12 CAS members. With 10 parallel sessions spanning frontier areas such as particle and field physics, condensed matter physics, atomic and molecular physics, and optics, the event provided a valuable platform for researchers to present new findings, enhance academic exchange, and strengthen professional networks. The program featured the 14th AAPPS-APCTP C. N. Yang Award Ceremony, along with special sessions on Women in Physics, Physics and Artificial Intelligence, the International Year of Quantum Science and Technology, and Meet-the-Editors events. Before the opening ceremony, participants observed a moment of silence in memory of Professor Chen-Ning Yang, honoring his foundational role in establishing AAPPS and serving as its first president. Attendees paid tribute to his remarkable contributions to advancing physics collaboration across the Asia-Pacific region and reflected on the lasting inspiration of his scientific legacy.

Learn more: https://mp.weixin.qq.com/s/jOpy8Nj9WQy7ymdZixn-7w?scene=1&click_id=64



October 21-24

10th AFLAS Congress & 18th Academic Conference on Laboratory Animal Science and Technology of China



16

Hosts: Asian Federation of Laboratory Animal Science Associations and Chinese Association for Laboratory Animal Sciences

Highlights: The event brought together nearly 800 professionals, including more than 100 experts and scholars from across Asia and beyond, for in-depth discussions under the theme “Laboratory Animal Science & Technology for Human Health. At the main forum, CAS member Gao Shao-rong presented frontier research on cell fate regulation, while CAS member Yang Huanming highlighted new advances in life sciences and precision medicine. The roundtable dialogue explored cutting-edge issues in laboratory animal science, while both the AFLAS International Forum and the Young Scholars Forum showcased the current landscape and future potential of the field in Asia. Multiple parallel sessions addressed key topics including animal welfare, quality management, resource models, digital applications, emerging technologies, and biosafety. Ninety-eight exhibiting companies displayed state-of-the-art equipment and technical solutions, underscoring robust industrial momentum. At the closing ceremony, the ICALS-AFLAS Awards were presented, with two Chinese scientists among the recipients. The event highlighted the scientific strength and innovative capability of Asia’s laboratory animal science community.

Learn more: <https://mp.weixin.qq.com/s/WIS571FnqtnVmijvYy-SMg>



October 24-26

9th International Conference on Vibration Engineering

17

Hosts: Chinese Society for Vibration Engineering and Chinese Society of Theoretical and Applied Mechanics

Highlights: The conference brought together 447 participants from 12 countries and regions, including 52 international guests. CAS member Zhai Wanming served as Conference Chair. Eight internationally renowned scholars delivered plenary talks, including Professor Michael Beer, Chair of the European Safety and Reliability Association and recipient of the International Academic Contribution Award, and CAS member Professor Hu Haiyan. A total of 316 papers were included in the proceedings, showcasing the latest advances in structural dynamics, non-linear vibration, vibration control, and other frontier areas. The research presented provides fresh ideas and technical support for advancing national low-carbon development goals.

Learn more: <https://www.csve.org.cn/34/202511/939.html>



October 27-30

2025 IEEE World Forum on Internet of Things

18

Hosts: China Instrument and Control Society and IEEE IoT Technical Committee

Highlights: Nearly 500 participants attended the forum, including 300 international guests. The event received 328 paper submissions from 38 countries and regions. In addition to the main program, the forum featured 41 sub-forums and five industry forums, covering a broad range of emerging topics such as the low-altitude economy, quantum sensing, machine learning, industrial software, wearable devices, 6G and smart cities, gas detection, and safety management. The forum brought together scholars from universities and research institutes worldwide, along with industry leaders from the ICT and IoT sectors, who shared the latest advances in IoT technologies and presented real-world application cases.

Learn more: <https://wfiot2025.iot.ieee.org/>

October
31-November 2

11th International Symposium on Cement and Concrete

19

Hosts: Chinese Ceramic Society and China Building Materials Academy

Highlights: Nearly 500 participants attended the symposium, including 21 international guests. Experts and scholars from more than 20 countries gathered to discuss advances in low-carbon development and the digital-intelligent transformation of the cement and concrete industries. The event showcased several cutting-edge achievements. CAE member Miao Changwen introduced a new paradigm for intelligent building-material design. CAS member Xu Shilang presented collaborative optimization methods for concrete mechanics and durability. CAE member Xing Feng shared breakthroughs in self-healing materials for marine concrete. Abdul Ghani Razaqpur, fellow of the Canadian Academy of Engineering, discussed numerical simulation techniques for steel-reinforcement corrosion. Johann Peter Plank of the German Academy of Science and Engineering addressed the long-standing challenge of admixture compatibility in green cementitious materials, offering key technical solutions to support global low-carbon development. In total, the symposium featured 282 presentations, including 10 keynote lectures, 58 invited talks, 108 oral presentations, 106 student presentations, and 76 posters.

Learn more: https://mp.weixin.qq.com/s/PLR-1w2UdymJGneAbxW6xQ?scene=1&click_id=227



October
31-November 2

2025 International Conference of Electrical Electronic and Networked Energy Systems

20

Hosts: China Electrotechnical Society and China Highway and Transportation Society

Highlights: Nearly 500 participants attended the conference, including 30 international guests. The event brought together leading experts from China and abroad in the fields of electrical engineering, electronics, and connected energy systems. Keynote presentations covered a range of frontier topics, including high-speed maglev and propulsion technologies, applications of grid-forming technologies in power systems, and multi-robot collaborative platforms for operations and maintenance. A total of 23 thematic forums were held on areas such as smart grids and integrated transportation-energy systems, fostering in-depth academic exchange. The conference also recognized outstanding papers, showcasing the latest research progress and innovative achievements in this rapidly evolving field.

Learn more: <https://mp.weixin.qq.com/s/-RAnkhpJ1pjg7x0tYHpqBQ>



November 2-4

9th International Conference on High Strength Low Alloy Steels

21

Host: Chinese Society for Metals

Highlights: Nearly 300 participants from 12 countries attended the conference, including 35 international guests. The event gathered many of the world's leading experts in the steel industry to share the latest advances in green and high-performance steels. Tian Zhiling, Executive Vice President of the Chinese Society for Metals, presented recent progress in advanced automotive steels, high-performance steels for the energy, marine, and heavy-engineering sectors, as well as new applications of AI in steel production. Huang Yixin, Chairman of Nanjing Iron and Steel Group, highlighted successful demonstrations of cruise-ship steels, acid-resistant pipeline steels, and other high-end products. International experts also contributed key insights: Prof. Harry Bhadeshia (University of Cambridge) outlined pathways for rapid carbon reduction using high-performance steels and innovative design; Dr. Rafael Mesquita (CBMM, Brazil) discussed the role of niobium microalloying in sustainable steelmaking; Dr. Keiji Ueda (JFE Steel Corporation, Japan) presented advances in fracture-resistant structural steel plates; and Dr. David Crowther (Vanitec) analyzed how vanadium microalloying enhances steel strength and toughness. The conference highlighted how microalloying technologies are driving the green transformation of the global steel industry. More than 130 paper abstracts were submitted by researchers and engineers from over a dozen countries.

Learn more: <https://mp.weixin.qq.com/s/dkUinuEfiuHcqJGL0NSnJQ>



November 7-9

2025 International Conference on Emergency Management

22

Host: Chinese Society of Optimization, Overall Planning and Economic Mathematics

Highlights: Nearly 200 participants attended the conference, including over 20 international guests. The event featured 11 parallel forums covering topics such as intelligent disaster prediction and early warning, risk analysis and emergency management for accidents and disasters, and risk communication and social risk governance. More than 130 presenters shared their research and engaged in in-depth discussions with panel experts and fellow participants, fostering meaningful exchange of ideas in the field of emergency management.

Learn more: <https://mp.weixin.qq.com/s/2Y8Jil2c0ON1Y-c00tu5og?scene=1>



November 7-10

2025 IEEE International Power Electronics and Application Symposium

23

Hosts: China Power Supply Society and IEEE Power Electronics Society

Highlights: A total of 377 participants from 10 countries attended the workshop, including 21 international guests. Eight leading experts in power electronics and power supplies delivered keynote presentations, including Frede Blaabjerg, member of the Royal Danish Academy of Sciences and Letters and former President of the IEEE Power Electronics Society; Liuchen Chang, fellow of the Canadian Academy of Engineering and former President of the IEEE Power Electronics Society; and Dushan Boroyevich, member of the U.S. National Academy of Engineering and former President of the IEEE Power Electronics Society. These experts also led advanced forums on cutting-edge topics, sparking lively on-site discussions and drawing strong attention from across the industry. This year's workshop received 410 paper submissions, including 195 presentations and 215 posters.

Learn more: <https://mp.weixin.qq.com/s/wwwwxAYAgC4flnyWm58hfQ>



November 7-11

25th Asia-Pacific Industrial Engineering and Management Systems Conference

24

Host: Chinese Mechanical Engineering Society

Highlights: More than 300 participants attended the conference, including over 150 international delegates, making it a global and high-level academic gathering. Plenary talks were delivered by leading scholars such as Prof. He Zhen (Tianjin University), Prof. George Q. Huang (The Hong Kong Polytechnic University), Prof. Stefan Minner (Technical University of Munich), and Prof. Yasser Dessouky (San Jos State University). The program included a main forum, invited lectures, an editors' forum, and multiple parallel sessions. Over 20 core topics were covered, spanning artificial intelligence, smart manufacturing systems, lean production, smart healthcare, supply chain optimization, sustainable operations, and digital transformation. Participants engaged in active discussion and exchange, exploring new directions and building shared insights for advancing innovation in industrial engineering and management systems. The conference made a meaningful contribution to theoretical progress and the high-quality development of related scientific and technological fields in China.

Learn more: <https://meeting.cmes.org/?sid=1342&mid=335&v=100>

November 12-14

23rd Asia Workforce Forum

25

Hosts: Chinese Nursing Association and International Council of Nurses

Highlights: Nearly 80 participants from 12 countries and regions attended the forum, including 29 international guests. The forum adopted the *Joint Statement of the 23rd Asian Nursing Workforce Forum*, in which all parties committed to strengthening regional cooperation, tackling nursing workforce challenges collectively, and advancing the sustainable development of nursing in Asia and beyond.

Learn more: <https://www.icn.ch/international-council-nurses>



November 18-21

2025 World Conference on Electromagnetic Non-destructive Testing

26

Host: Chinese Mechanical Engineering Society

Highlights: The conference brought together nearly 40 international experts from 18 countries and regions, along with more than 250 Chinese experts and scholars, for in-depth discussions on advances and challenges in electromagnetic nondestructive testing. More than 200 abstracts were submitted, and the conference technical committee selected 138 presentations for the program, including 14 keynotes, 18 invited talks, 26 oral presentations, and 80 posters.



November 21

International Roundtable Conference on Space Science

27

Host: Chinese Society of Space Research

Highlights: Participants at the roundtable agreed that international cooperation is both inevitable and essential for the future of space science. They held in-depth discussions on the roles of major spacefaring nations, international space organizations, and individual scientists, as well as on practical frameworks for effective collaboration. In conclusion, the experts called on the global space science community to further strengthen cooperation, boost collective scientific output, and contribute meaningfully to the advancement of human knowledge.

People-to-People Exchange on Openness, Trust, and Cooperation



September 14-20

9th Belt and Road Teenager Maker Camp and Teacher Workshop (China-ASEAN Teenager Maker Camp)

28

Hosts: CAST, China's Ministry of Science and Technology and Government of Guangxi Zhuang Autonomous Region

Highlights: Nearly 50 guests from seven countries participated in the event, including 11 international attendees. The main programs of the 9th Maker Camp opened in Sichuan and concluded in Guangxi, with coordinated activities in Shaanxi, Ningxia, Xinjiang, and Yunnan. Altogether, more than 300 teachers and students from over 30 countries and regions took part. The China-ASEAN Maker Camp (Guangxi) offered 24 innovative AI courses and hands-on science and culture activities and resulted in four major cooperation agreements and action plans in areas such as artificial intelligence, talent development, and science education. These efforts strengthened China-ASEAN collaboration in STEM education and added youthful momentum to building a community with a shared future for humanity.

Learn more: <https://mp.weixin.qq.com/s/r8U5G5MN6ebfZ94GsuVEfw>



September 25-28

2025 China-US Young Scientists Exchange in Neuroscience

29

Host: Chinese Neuroscience Society

Highlights: A total of 22 international participants took part in the event. Designed to leverage the strengths and global influence of both countries in neuroscience, the initiative aims to enhance academic exchange and collaboration between young Chinese and American neuroscience researchers. Through the Society for Neuroscience (SfN), around 10 young US neuroscientists were recruited to join the exchange activities in China. Built around the Annual Meeting of the Chinese Neuroscience Society, the 4-day event featured a series of activities including an international youth forum, presentations, poster sessions, and thematic workshops. It adopted a combined model of “open recruitment + targeted invitation, “forum exchange + thematic collaboration, and “conference interaction + follow-up engagement. This structure ensured both academic rigor and sustained impact, laying the groundwork for a model mechanism of China-US collaboration among the next generation of neuroscience talent.

Learn more: <https://www.cns.org.cn/en/>

October 11-12

17th US-China Green Energy Forum

30

Hosts: Chinese Society for Electrical Engineering and US-China Green Energy Council

Highlights: Nearly 300 guests attended the forum, including 10 international participants. The event gathered leading global experts, among them Nobel Laureates Steven Chu and Brian Schmidt, as well as renowned CAE members Guo Jianbo, He Kebin, Rao Hong, and Cheng Huiming. Under the theme “Emerging Technologies Empowering Low-Carbon Transition, the program featured an opening ceremony, keynote talks, high-level innovation dialogues, roundtable discussions, and three thematic sub-forums. Experts shared the latest research and exchanged insights on technological pathways and practical applications in areas such as carbon neutrality, green energy transition, AI-enabled energy and power systems, low-carbon resilient smart cities, and integrated computing-energy solutions.

Learn more: https://mp.weixin.qq.com/s/A0-Lz_BXLqypKXGGCWRJpA



October 11-26

2nd Chinese-Russian Science and Technology Translation Contest (Supporting Event of the China-Russia Engineering Technology Forum and China-Russia Digital Summit Forum)

31

Hosts: Heilongjiang Association for Science and Technology, Russian Union of Scientific and Engineering Associations and Heilongjiang University

Highlights: Nearly 800 participants joined the event, including 10 international guests. The contest brought together leading experts and top translators from China and Russia, with contestants from universities such as Zhejiang University, Beijing Foreign Studies University, and Moscow City University showcasing strong language skills and solid scientific and technical competence. Awards were given in both the university and open categories. The winners were named “China-Russia Science Communication Ambassadors and honored at the opening ceremony of the 12th China-Russia Engineering Technology Forum. The competition has made a meaningful contribution to developing sci-tech translation talent and strengthening practical cooperation between the two countries.

Learn more: https://mp.weixin.qq.com/s/uzNVN6yzvgX7L4Jv5iD_w



October 12-17

2025 Sino-Foreign Engineers Capacity-Building Program (Thailand)

32

Host: China Society of Engineers

Highlights: A total of 51 engineers participated in the program, including 16 international attendees. Focused on new energy vehicle (NEV) manufacturing, the program combined keynote presentations, technical site visits, workshops, and automotive culture exchange. Chinese and Thai engineers visited leading companies such as Yutong and BYD and held in-depth discussions on automotive engineering and advanced manufacturing. The program highlighted China's latest advances in NEV manufacturing, intelligent connected vehicles, and green low-carbon production. It also provided a high-level platform for mutual learning, significantly strengthening the participants' expertise in intelligent manufacturing and helping elevate practical cooperation in the China-Thailand NEV industry to a new level.

Learn more: <https://mp.weixin.qq.com/s/cQBJWEpnJ8W5N9D6zfAeoQ>



October 16-19

13th International Conference of Intelligent Technology for Agriculture

33

Hosts: China Association of Agricultural Science Societies and Beijing Academy of Agriculture and Forestry Sciences, among others

Highlights: More than 700 participants from 14 countries attended the conference, which brought together leading experts in agricultural artificial intelligence from China and around the world. At the event, the team led by CAE member Zhao Chunjiang unveiled the country's first large-scale "QeeG Smart Farm, covering roughly 66,700 hectares. The Beijing-Tianjin-Hebei Agricultural Science and Technology Innovation Alliance released its recommended technologies, products, and models for wider industry adoption. In addition, the Beijing Institute of Agricultural AI and Robotics signed a strategic cooperation agreement with the Beijing Innovation Center of Humanoid Robotics, marking an important step forward in cross-disciplinary collaboration in smart agriculture and robotics.

Learn more: <https://mp.weixin.qq.com/s/mDOg07pRyBMGiwFXJ9nocQ>



October 20-23

China-South Africa Young Scientists Roundtable Discussion

34

Hosts: Hunan Association for Science and Technology and South African Council for Natural Scientific Professions

Highlights: Nearly 200 guests took part in the event, including around 40 international participants. Six leading experts delivered keynote speeches under the theme "Technology Empowering Green Development", highlighting the two countries' advancements in areas such as energy, minerals, and agriculture. The program also convened nearly 70 Chinese and South African researchers and technical professionals for roundtable discussions, while more than 100 representatives from government, industry, academia, and research institutions reached consensus on topics such as BeiDou-enabled smart logistics and near-zero-carbon expressways tailored to African needs. South African Academy of Engineering member Cyril O'Connor underscored that the achievement of bilateral cooperation is grounded in long-term mutual trust and shared infrastructure. Hunan Province announced the establishment of a regular China-South Africa mechanism for science, technology, and cultural exchange, aimed at further deepening ongoing collaboration.

Learn more: <https://m.chinanews.com/wap/detail/chs/zw/10502284.shtml>

中国工程师联合会
CHINESE SOCIETY OF ENGINEERS

October 20-28

2025 Sino-Foreign Engineers Capacity-Building Program (Egypt)

35

Host: China Society of Engineers

Highlights: A total of 71 engineers participated in the program, including 51 international attendees. Focusing on “Digital Intelligence and Low-Carbon Development, the program featured technical presentations, field visits, workshops, and case discussions. National Engineer Award recipient Zhang Chunsheng showcased China’s major engineering achievements through the Baihetan Hydropower Station case, while international participants shared insights and challenges from Egypt’s New Administrative Capital CBD project. The program provided a strong platform for Chinese and Egyptian engineers to exchange expertise, broadened participants’ global perspectives, and laid a solid foundation for deeper China-Egypt cooperation in engineering and technology.

Learn more: https://mp.weixin.qq.com/s/XwgWsXQ1wuOPPLpC0Bhtdg?scene=1&click_id=96



October 23-25

China-Russia Engineering Technology Forum (WSTDF Supporting Event)

36

Hosts: CAST and Russian Union of Scientific and Engineering Associations (RUSEA)

Highlights: Nearly 260 guests attended the forum, including 80 international participants. During the event, the Heilongjiang Association for Science and Technology and RUSEA each signed memorandums of understanding with the State Committee on Science and Technology of the Republic of Belarus. The Heilongjiang Service Center for Overseas Professionals also signed a cooperation agreement with Russian science and technology organizations. In addition, the Heilongjiang Association for Science and Technology, the Association of BRICS Engineering Organizations (in preparation), and the China Institute of Communications signed an MoU with RUSEA and the Russian Technical Universities Association on capacity building for engineers in digital technologies. Four leading academy members from China and Russia delivered keynote speeches on frontier topics in engineering and technology and presented awards to the winners of the 2nd Chinese-Russian Science and Technology Translation Contest. This year’s forum further strengthened China-Russia sci-tech cooperation and has become an important platform for advancing bilateral innovation in engineering and deepening talent exchange.

Learn more: <http://hlj.people.com.cn/n2/2025/1023/c220005-41389036.html>



October 24-26

Innovation for the Future: China-International University Student Sci-Tech Partnership Initiative & First China-Russia Student Sci-Tech and Cultural Exchange

37

Hosts: CAST Youth Science Center, Heilongjiang Association for Science and Technology and Harbin Institute of Technology

Highlights: The event brought together academicians, experts, and 150 university students from 33 Chinese and Russian universities, using student technology competitions, frontier science lectures, innovation activities, and social practice as key platforms for exchange. Drukarenko Sergey Petrovich, First Vice President of RUSEA, attended and delivered remarks. CAS member Wu Xiangping and Babomurod Akhmedov of the Academy of Sciences of the Republic of Uzbekistan each delivered high-level keynote speeches. Throughout the program, Chinese and Russian students engaged in deep exchange and hands-on collaboration through activities such as a combat robot competition, an intelligent vehicle assembly-and-disassembly workshop, and the fabrication of radio antenna components. They also visited the Exhibition Hall of Evidence of Crime by Unit 731 of the Japanese Imperial Army, the Harbin Institute of Technology Space Museum, and other sites. These interactions strengthened both scientific collaboration and cultural understanding, creating a dynamic new bridge for China-Russia cooperation in science, technology, and people-to-people exchange.

Learn more: <https://mp.weixin.qq.com/s/BtfCicqU8EtAG5D6w6VDTA>



October 25

2025 World Laureates Forum opening ceremony (WSTDF Supporting Event)

38

Hosts: China Center for International Science and Technology Exchange, Shanghai Association for Science and Technology and Shanghai Lingang Science and Technology Innovation and Development Foundation

Highlights: The event brought together about 150 scientists from more than 10 countries. The 2025 WLA Prize was awarded to Richard Schoen in Computer Science or Mathematics, and to Scott Emr and Wesley Sundquist in Life Sciences or Medicine. In the keynote session, leading scientists from China and abroad shared cutting-edge progress and new perspectives from the frontiers of research. In parallel, the forum partnered with four top Shanghai universities—Fudan University, Shanghai Jiao Tong University, Tongji University, and East China Normal University—along with the top Lingang laboratories, to host a series of high-level sub-forums.

Learn more: <http://sh.people.com.cn/n2/2025/1025/c134768-41390901.html>

中国工程师联合体
CHINESE SOCIETY OF ENGINEERS

October 29

2025 China-ASEAN Engineers Forum

39

Hosts: ASEAN Federation of Engineering Organisations and Chinese Society of Engineers

Highlights: A total of 123 participants from China and 11 ASEAN member states attended the forum, including 102 international guests. Focusing on the deep integration of “AI + Engineering”, the forum sought to advance a greener and more sustainable engineering ecosystem. The Chinese Society of Engineers announced continued support for professional training programs that bring ASEAN engineers to China, while speakers shared forward-looking insights and practical experience on AI development and application, AI and engineering ethics, and engineering education in the AI era. The forum brought together senior representatives from engineering organizations across all eleven ASEAN countries, along with leaders of regional engineering bodies. It served as a key platform for China-ASEAN dialogue and exchange, helping build mutual trust and ties between the engineering communities of both sides.

Learn more: https://www.ccst.org.cn/kxyw/art/2025/art_989199684.html



October
30-November 1

2025 International Smart Transportation Symposium

40

Hosts: China Highway and Transportation Society and Southeast University

Highlights: The Symposium was co-hosted by the Autonomous Driving Committee, the Transportation Engineering and Informatization Branch, and the Urban Transportation Branch of the China Highway and Transportation Society, together with Southeast University's School of Transportation, the Shenzhen Urban Transport Planning Center, and the College of Urban Transportation and Logistics at Shenzhen Technology University. Nearly 400 participants attended, including more than 20 international delegates from 18 countries and regions. About 60 major organizations, universities, and companies—including the International Road Federation (IRF), the Forum of European National Highway Research Laboratories (FEHRL), the Asian Infrastructure Investment Bank (AIIB), the Hong Kong Institution of Highways and Transportation, China Highway Engineering Consulting Corporation, Baidu, Huawei, Shenzhen Bus Group, and Maxvision Technology—contributed to a vibrant exchange of ideas across the smart transportation ecosystem.

Learn more: <https://mp.weixin.qq.com/s/ftFJHP9qFeS040ayrlS3xg>



November 5-7

“Startup Tianjin 2025 Exchange Event of the Overseas Chinese Science and Technology Association Representative Office Cluster

41

Hosts: China Center for International Science and Technology Exchange, Tianjin Municipal Committee Talent Work Leading Group Office, Tianjin Association for Science and Technology, Tianjin Municipal Human Resources and Social Security Bureau and Tianjin Municipal Science and Technology Bureau

Highlights: Nearly 220 people from 14 countries attended the event, including 25 international participants. Since its launch in December 2024, the Overseas Chinese Science and Technology Association Representative Office Cluster has developed an efficient working mechanism—led by CAST, coordinated across departments, and supported by local implementation—and introduced facilitation measures such as tax incentives and Free Trade Accounts. So far, 10 associations have opened representative offices in Tianjin, 9 international exchange events have been held, and more than 30 cooperation projects have been launched. By building a high-level dialogue platform, offering full-chain service support, and promoting cross-regional collaboration, Tianjin is taking practical steps to explore pathways for institutional opening-up, creating a model for international sci-tech cooperation that is both replicable and scalable. During the exchange sessions, participants shared insights and recommendations, engaging in in-depth discussions on improving service mechanisms, expanding cooperation scenarios, and strengthening resource coordination—helping to build consensus and gather collective wisdom for the cluster’s high-quality development.

Learn more: <https://mp.weixin.qq.com/s/1xDUjExBqPMsai7S6yu-yw>

中国海归创业联合体
Overseas Chinese Enterprise Alliance

November 5-7

Annual Meeting of Overseas Chinese Entrepreneurship Alliance

42

Host: Overseas Chinese Entrepreneurship Alliance

Highlights: Nearly 200 guests from eight countries attended the conference, including 15 international participants. An exhibition of innovation and entrepreneurship achievements by overseas Chinese enterprises showcased cutting-edge projects, strengthened communication within the returnee community, and encouraged greater openness and collaboration. In parallel, the conference co-organized a Government Salon and a series of field visits with the Hengqin Guangdong-Macao In-Depth Cooperation Zone. The program featured one main forum and five thematic sub-forums, with around 27 presentations and talks.

Learn more: https://news.southcn.com/node_d75048eff3/37f73060be.shtml?r=0.26864175259806167

Innovation and Mutual Learning among Civilizations



September 19

China (Guangxi)-ASEAN Young Scientists Dialogue on Artificial Intelligence

43

Hosts: Guangxi Association for Science and Technology, World Association of Young Scientists, China-ASEAN International Science Popularization Exchange Center, Guangxi Academy of Sciences, Guangxi University and Guangxi International Expo Affairs Bureau

Highlights: Nearly 200 participants attended the event, including 90 international guests. The dialogue led to the release of several key cooperation documents, including: the Cooperation Framework Agreement between the UN SDGs and Leadership Development Center and the China-ASEAN International Science Popularization Exchange Center; the ASEAN Artificial Intelligence Action Plan (2025-2027) jointly issued by the World Association of Young Scientists and the Guangxi Association for Science and Technology; the Youth Talent Development Cooperation Framework Agreement between Infrastructure University Kuala Lumpur and Guangxi University; and the Cooperation Framework Agreement between the Council of Industry Technology Alliances in Z-Park and the Guangxi Federation of Enterprise Associations for Science and Technology.

Learn more: <https://mp.weixin.qq.com/s/XWEXyLOXVTRK14Z-BPPMvg>



September 19-22

Global Simulation Conference 2025

44

Host: Asia Simulation Federation

Highlights: Nearly 800 participants from more than 30 countries and regions attended the conference, including over 80 international guests. The event featured a series of major releases and cooperation milestones, including the launch of the Top Ten Frontier Questions in Simulation Science and Technology and the *Hangzhou Declaration on Modeling and Simulation Shaping the Digital World*. Beihang University signed a cooperation agreement with Brazil's Institute for Pure and Applied Mathematics (IMPA), while Dassault Systèmes unveiled its next-generation Digital Heart. The conference also saw the release of SABRE2025, a large-scale autonomous structural analysis CAE software, and ASO, a new industrial software platform developed in China. In addition, the Asia Simulation Federation signed a strategic cooperation agreement with Yuansuan Technology and announced the establishment of its advisory committee, marking important steps toward deeper international collaboration in simulation science and technology.

Learn more: <https://mp.weixin.qq.com/s/QvEYvomuOIW1weMgGxyktw>

September 23-27

3rd International Conference on Mechanical System Dynamics

45

Host: International Society of Mechanical System Dynamics

Highlights: The conference welcomed nearly 600 participants from 44 countries, including 300 international attendees. CAS member Rui Xiaoting—President of ISMSD, Editor-in-Chief of the *International Journal of Mechanical System Dynamics* (IJMSD), and Chair of ICMSD—joined Professor Lu Guibin of Nanjing University of Science and Technology in presenting appointment plaques to the newly inducted members of the ISMSD Scientific and Technical Committee. The ISMSD Vice Presidents also awarded plaques to the chairs of the Society's six Working Committees and eight Technical Committees and issued certificates to their respective committee leaders.

Learn more: <https://mp.weixin.qq.com/s/EH6RTGBbFUNvoOjqhwB7-A>



September 25

“HydroSphere: Connecting the Global Hydrogen Ecosystem” International Conference

46

Hosts: International Hydrogen Fuel Cell Association and China Society of Automotive Engineers

Highlights: The conference brought together nearly 100 participants from 17 countries across five continents. Thirty-seven speakers represented leading global institutions and companies in the hydrogen sector, including IEA, OECD, Air Products, and ISO. These organizations are currently involved in hydrogen projects in more than 40 countries. During the event, IHFCA signed memorandums of understanding with Green Hydrogen India and Mincat Energy, adding momentum to cooperation in industrial technology exchange and international industry research. The conference also presented the Global Hydrogen and Fuel Cell Innovation Awards, recognizing nine outstanding technologies spanning the full hydrogen value chain—from production and storage to transport and end use. Among the award-winning projects were FORVIA’s large-capacity, high-pressure on-board hydrogen storage tank and an off-grid hydrogen fuel-cell ultra-fast charging station jointly developed by Chongyapower and Refire Energy.

Learn more: <https://mp.weixin.qq.com/s/DjYhn8axJ-HmCjDT4NkI7g>



October 15

International Forum of Intelligent Manufacturing Innovation

47

Host: International Coalition of Intelligent Manufacturing

Highlights: Nearly 100 guests participated in the forum, including 20 international attendees. Executives from several leading smart-manufacturing demonstration enterprises shared “replicable and scalable transformation experiences. Their contributions provided valuable insights and actionable guidance for companies advancing their work in industrial AI and intelligent manufacturing.

Learn more: <https://www.icim.org.cn/Article/ArticleDetail.aspx?id=225>



October 17-18

International Youth Development Forum on Mechanical System Dynamics

48

Host: International Society of Mechanical System Dynamics

Highlights: Nearly 100 guests attended the forum, including 10 international participants. Six distinguished women scholars in combustion science delivered high-level presentations showcasing their latest research. After the talks, Professors Zeng Meirong of Shanghai Jiao Tong University and Zhang Xiaoyuan of the University of Science and Technology of China led an interactive Q&A session, drawing on their own career experiences to discuss how to balance research with personal life and offering practical guidance and inspiration for young women in science and technology.

Learn more: <https://zs.njust.edu.cn/6d/b8/c4621a355768/page.htm>



October 22-24

China-Europe Biodiversity Exchange

49

Hosts: International Society of Zoological Sciences and Sino-French International Research Network on Biodiversity

Highlights: Nearly 100 participants took part in the exchange. The program invited European scholars (PhD holders) to China to promote international collaboration and integration in zoological research. A key goal of the initiative is to encourage outstanding European PhDs to conduct postdoctoral research in China, while also supporting Chinese PhD graduates in pursuing postdoctoral opportunities in Europe. The program featured academic exchange sessions, along with visits to universities, research institutes, and field stations in Haikou.



October 26-29

24th International Congress of Zoology

50

Host: International Society of Zoological Sciences**Highlights:** The congress brought together more than 200 participants and featured 16 parallel sessions with over 160 presentations.

October 28

"Promoting Green Hydrogen Applications to Provide an Ideal Pathway for Deep Decarbonization in Modern Production and Life" Forum (WSTDF Parallel Forum)

51

Host: International Hydrogen Fuel Cell Association**Highlights:** Nearly 100 guests from eight countries participated in the forum, including 30 international attendees. The International Hydrogen Energy and Fuel Cell Association, together with KPMG Beijing, released the *Research on the Application of AI Technology in the Hydrogen Energy Industry*. At the launch ceremony, six distinguished guests—Ouyang Ming-gao, Wang Ju, Chen Wei, Wang Hao, Mikaa Blugeon-Mered, and Li Jing—jointly unveiled the report, marking a new chapter in the deep integration of hydrogen energy and artificial intelligence.**Learn more:** <https://mp.weixin.qq.com/s/TAW55Pluf1UqHJ7XXeUTcA>

October 28

"Addressing the Challenge of Biological Consequences of Global Changes" Forum (WSTDF Parallel Forum)

52

Host: International Society of Zoological Sciences**Highlights:** Nearly 50 guests participated in the forum, including 11 international attendees.



October 28

Digital Earth Supporting Sustainable Development Forum (WSTDF Parallel Forum)

53

Host: International Society for Digital Earth

Highlights: The forum brought together around 70 participants, including approximately 20 international guests, representing research institutes, universities from 19 countries, as well as experts from UN bodies and international organizations. Participants held in-depth discussions on technological developments, emerging opportunities, and key challenges in the field of Digital Earth. The forum culminated in the release of the *Digital Earth Initiative for the Sustainable Development Goals*.

Learn more: <https://cn.chinadaily.com.cn/a/202510/31/WS69042b41a310c4deca5ef48f.html>



October 28

International Symposium on Intelligent Manufacturing (WSTDF Parallel Forum)

54

Host: International Coalition of Intelligent Manufacturing

Highlights: Nearly 60 guests participated in the symposium, including 16 international attendees. The event brought together experts, scholars, and industry representatives from multiple countries. A key outcome was the official release of two ICIM standards—“Template for Smart Manufacturing Use Cases” and “Intelligent Manufacturing—Application Guideline for New Technologies”. Jointly developed by ICIM and more than 20 partner organizations, the standards outline smart manufacturing system architectures and data interoperability specifications.

Learn more: <https://www.icim.org.cn/Article/ArticleDetail.aspx?id=226>



October 28

“Simulation: New Mementum of Advanced Manufacturing” Forum (WSTDF Parallel Forum)

55

Host: Asia Simulation Federation

Highlights: The forum brought together more than 10 speakers and over 50 participants from eight countries for in-depth discussions on how “Simulation + AI” is driving innovation in advanced manufacturing. Key outcomes included the release of the ASIASIM Book Series (2025-2030): *Body of Knowledge for Modeling and Simulation* (Chinese Edition) and the Top 10 Frontier Questions in Simulation Science and Technology.

Learn more: https://mp.weixin.qq.com/s/2MnvJ1IJib_GqLUK0ILULg

October 29

“Young Sicientists Dialogue: Pathways to a Career in Science Diplomacy” Forum (WSTDF Parallel Forum)

56

Host: World Young Scientists Association

Highlights: More than 50 guests joined the forum, including 20 international participants. During the dialogue on “How Science Can Play a Positive Role in Diplomacy”, speakers—including International Science Council CEO Salvatore Aric, former Science Advisor to the Malaysian Prime Minister Zakri Abdul Hamid, former UNEP Science Division Director Liu Jian, former Science and Technology Counsellor at the Chinese Embassy in Austria Lei Fengyun, IRDR Executive Director Yang Saidi, and Malaysian Young Scientists Network Chair Aslina Baharum—shared insights on the evolving interfaces between science and diplomacy.

Learn more: https://mp.weixin.qq.com/s/K8-0G4qgaitJ-e0jzQILVA?sce-ne=1&click_id=231



October 29

Embodied Intelligence: The Integration of AI and Robots” Forum (WSTDF Parallel Forum)

57

Host: World Robot Cooperation Organization

Highlights: Nearly 50 participants attended the forum, including 10 international guests. The event released the Top 10 Advances and Trends in Embodied Intelligent Robots (2025), outlining key directions such as the joint evolution of physical interaction and world models, multi-level end-to-end decision-making, generative-AI-driven robot design, software-hardware consistency, swarm collaboration, and safety and ethics. Together, these ten areas offer a clear roadmap for the future development of embodied intelligent robotics.

Learn more: <https://mp.weixin.qq.com/s/Zvpg7aJVSSr-bYIYWxm-sg>



October 29

“One Health in Rapid Urbanization” Forum (WSTDF Parallel Forum)

58

Hosts: International Science Council Urban Health & Wellbeing Programme, Chinese Society of Biomedical Engineering, Alliance for Belt and Road Cities for Urban Environment and Health, CAS Institute of Urban Environment, CAS Research Center for Eco-Environmental Sciences, and One Sustainable Health Institutes (OSH)

Highlights: The forum brought together nearly 50 participants from eight countries, including 10 international experts, and helped lay the foundation for a growing regional cooperation network on “One Health” in East and Southeast Asia. It also strengthened collaboration between the scientific community and policymakers. At the event, the new *Urban Health and Well-being Scientific Action Plan* was released. Under the theme “Building Healthy Cities Together: Cross-Sector Collaboration and Innovation in Governance”, speakers proposed practical implementation pathways—including establishing cross-sector liaison roles, building unified data-sharing platforms, and deepening the integration of social sciences into health governance. These efforts aim to advance and expand the practice of the “One Health” approach amid rapid global urbanization.

Learn more: https://tech.gmw.cn/2025-11/05/content_38393122.htm



October 29

“Open Science: Prospects for Global Collaboration” Forum (WSTDF Parallel Forum)

59

Host: CAST-UN Consultative Committee on Open Science and Global Partnership

Highlights: Nearly 50 guests attended the forum, including 10 international participants. The event marked the launch of Open for Science, a new platform for open knowledge and data sharing. As a major outcome of OS10—part of UNESCO’s International Decade of Science for Sustainable Development and initiated by CAS member Yang Wei—the platform provides an innovative framework for global data openness. It translates the principles of open science into reusable data and tools, verifiable quality standards, and a sustainable collaboration network, supporting the goals of the UN Decade of Science.

Learn more: <https://baijiahao.baidu.com/s?id=1847731884290183484&wfr=spider&for=pc>



October 29

“Toward a Sustainable Future: The Application of Mesoscience in Addressing Global Challenges” Forum (WSTDF Parallel Forum)

60

Host: International Panel of Mesoscience

Highlights: The keynote presentations outlined practical pathways for applying mesoscience to key areas such as advancing education and developing green technologies. Speakers also proposed methodological tools to support deeper interdisciplinary integration. The discussion session further explored forward-looking applications of mesoscience across a range of emerging fields, including sustainable development, immune system research, artificial intelligence, and finance.

Learn more: <https://mp.weixin.qq.com/s/Pu7cT2JZDgNSNkemfl8Gsw>



November 13

UN Climate Change Conference (COP 30) Side Event “Low-Carbon Technology Innovation and Industrial Practice”

61

Host: International Hydrogen Fuel Cell Association

Highlights: Nearly 30 international guests took part in this COP30 side event, which featured the release of new achievements, keynote speeches, case presentations, and a roundtable discussion. Speakers from government agencies, research institutions, industry associations, and enterprises shared insights on low-carbon technology innovation and industrial application. The event also marked the launch of the English edition of *Research on the Application of AI Technology in the Hydrogen Energy Industry*. The report examines how AI can enhance every stage of the hydrogen-energy value chain—from production and storage to transport, refueling, and end use. It highlights global best-practice cases of “AI + hydrogen”, analyzes current industry challenges, and offers recommendations for high-quality development. By promoting information sharing and collaborative innovation across the sector, the report brings fresh momentum to the sustainable growth of the hydrogen-energy industry.

Learn more: <https://mp.weixin.qq.com/s/Jj8Vc4hYIU7wFwMffb5gTQ>



November 17-19

Asia Simulation Conference

62

Host: Asia Simulation Federation

Highlights: The conference attracted nearly 100 participants from eight countries, including almost 70 international attendees. Key outcomes included the establishment of the Asia Simulation Federation Singapore liaison office and the launch of the Federations’ Social Simulation Technical Committee.



November 21

Annual Academic Event of International Society of Mechanical System Dynamics Technical Committees

63

Host: International Society of Mechanical System Dynamics

Highlights: The event brought together nearly 100 participants, including 10 international guests.

Future Directions

Revisiting WSTDF open letter on openness, trust and cooperation

At the Third World Science and Technology Development Forum in 2021, CAST, together with CAS, CAE, UNESCO, and over 250 scientific organizations from China and abroad, jointly released an open letter on openness, trust, and cooperation. The letter calls for building global consensus within the scientific community and ensuring that science and technology are accessible to, shared by, and beneficial to all people. Let us revisit its core message.

Open letter on openness, trust and cooperation

Science and technology are the crystallization of human wisdom. Today, as a new wave of scientific and technological revolution and industrial transformation accelerates, they offer new pathways for addressing major global challenges, including infectious diseases, climate change, and sustainable development. As contributors to and drivers of scientific and technological progress, we—the global scientific community—call for sincere cooperation and collective effort so that science and technology may better serve humanity, remain accessible and beneficial to all, and contribute to the sustainable development of human civilization.

Pursuing excellence and embracing innovation

We uphold the scientific spirit of seeking truth and employ rigorous and meticulous methods in the pursuit of new knowledge. Guided by the mission to explore the frontiers of science and reach new heights, we champion the values of scientific excellence and foster an academic environment that respects originality, encourages innovation, tolerates failure, and promotes intellectual freedom and equality.

Fostering openness and sharing benefits

We advance the movement for open science, cultivate a culture of openness, and promote the principles that underpin open scientific practice. We work to establish systems that support open science and to encourage broad participation so that scientific data, knowledge, facilities, and findings can be accessed more widely and used more reliably. At the same time, we safeguard the legitimate boundaries of openness by upholding balanced and appropriate principles and by protecting personal privacy, data security, and intellectual property rights.

Strengthening collaboration and building mutual trust

We respect the research achievements and priority rights of others, and we evaluate scientific work objectively and fairly. We value reasonable academic questioning and share our own scientific data and research findings openly and honestly with the broader scientific community. Guided by the principles of being borderless, barrier-free, and non-discriminatory, we trust in the abilities, contributions, and values of our collaborators and uphold a spirit of equality and mutual respect.

Promoting exchange and advancing cooperation

We build mechanisms that enable cross-disciplinary, diverse, and inclusive collaboration, breaking down barriers to joint innovation and weaving an open international network that brings together the collective wisdom of scientists worldwide to address shared challenges. We seek to understand and respond to the cooperation needs of different stakeholders, working to identify the “greatest common denominator” in collaboration. Together, we advance international scientific and technological cooperation through shared commitment.

Assuming responsibility and honoring the mission

We safeguard academic freedom and uphold the ethical standards and moral principles that guide scientific work, ensuring that science is directed toward the good of humanity. We strive to anticipate and assess the potential regulatory tensions, social risks, and ethical challenges that may arise from scientific and technological development, and we act consciously to avoid negative impacts. We engage in science communication through diverse forms and channels, promoting scientific thinking, sharing scientific knowledge, and respecting the public’s right to participate in scientific life. In doing so, we help strengthen public understanding of and engagement with science. We also participate actively in discussions on science-related policy issues, providing comprehensive, accurate, and objective insights to support informed and responsible decision-making.

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