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CAST Newsletter

Special Issue

2025
纵深发展
INTERNATIONAL
SCIENCE
聚才合作
TECHNOLOGY DIPLOMACY
开放、信任、合作
TALENT
COOPERATION
凝聚共识、建立合作
2025
绿色未来
共享未来
SHARED FUTURE
多元
开放
了解与认同
推动人类可持续发展
sustainable development
跨学科、跨国界
科技非歧视
TECHNOLOGY LEADER
推动科技创新成果

S.T.I. Bridges, Humanity Orients:
CAST International Month 2025 to Commence



THE INTERNATIONAL
MONTH 2025
Openness Cooperation Trust

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CAST International Month 2025 Quick Guide

CAST International Month 2025: Key information at a glance



Name: The International Month 2025: Openness, Cooperation, Trust

Theme: S.T.I. Bridges, Humanity Orients

The program is designed to:

- Unleash the driving force of science and technology
- Strengthen trust and cooperation through cultural and people-to-people exchange
- Create a platform for mutual learning among civilizations

Dates: October 2025, with activities extending into September and November

Four sections, one blueprint: Shaping development and future together

The International Month 2025: Openness, Cooperation, Trust will present around 60 events in October 2025, with selected activities also extending into September and November. Organized by CAST in collaboration with international scientific and technological organizations, the program is designed to enhance dialogue and cooperation between Chinese and global scientists, with a shared commitment to development and a common future. The program is structured around four thematic sections:

Flagship Conferences on Science Diplomacy

This section includes major international conferences initiated and hosted by CAST, such as the 2025 World New Energy Vehicle Congress, the World Federation of Engineering Organizations 2025 General Assembly & Global Engineering Congress, the 2025 World Young Scientists Summit, and the 2025 World Science and Technology Development Forum. These events are designed to create high-level platforms for exchange and cooperation—bringing together talent, building consensus, and forging partnerships—while uniting scientists worldwide in building a community with a shared future for humanity.

Dialogue on Science Driving Future Development

Led by national academic societies, this section focuses on the future of science, industry, sustainability, and shared growth. Events will highlight the leading role of scientific and technological innovation, address the needs of frontier research and emerging industries, promote cross-disciplinary, cross-sector, and cross-border collaboration, and deepen global cooperation in scientific innovation. They will also accelerate the application of research achievements and advance international cooperation in key fields, contributing scientific strength to global sustainable development.

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

This section features bilateral and multilateral activities bringing together scientists, engineers, and young professionals. With a strong emphasis on the humanistic dimensions of scientific progress, these events will create platforms for dialogue between science and culture. They aim to foster in-depth exchange on concepts, methods, and practices; strengthen mutual understanding and trust within the global scientific community; and nurture an open, inclusive environment for international cooperation. By integrating science with the humanities, they will inject fresh momentum into building a community with a shared future for humanity.

Innovation and Mutual Learning among Civilizations

Organized by international science organizations and scientific programs, this section emphasizes equality and mutual learning as core values of cross-civilizational dialogue. It will promote understanding and respect among different cultures, encourage the cross-cultural flow and integration of scientific knowl-

edge, and cultivate a more diverse ecosystem of scientific innovation.

Theme and significance of CAST International Month 2025

The International Month 2025: Openness, Cooperation, Trust revolves around the theme “S.T.I. Bridges, Humanity Orients.” Carefully curated as an integrated program, it is designed to harness openness, strengthen cooperation, and build trust across the global science and technology community. The theme unfolds across three dimensions:

1. Unleashing the driving force of science and technology

With academic rigor and technological empowerment at its core, the program focuses on shared visions for the future of science, industry, sustainability, and inclusiveness. It will feature major conferences and exchange activities on science-led development, the release of key achievement lists, the establishment of new international scientific organizations, and the launch of new journals—collectively deepening the academic impact of the events.

2. Strengthening trust and cooperation through cultural and people-to-people exchange

Guided by the vision of building a community with a shared future for humanity, the program seeks to promote friendship through culture and collaboration through shared values. A series of scientific and cultural exchanges will enhance the global scientific community’s understanding of this vision, as well as China’s Global Development Initiative, Global Security Initiative, Global Civilization Initiative, and Global Governance Initiative. These activities will showcase China’s fine traditional culture, highlight the contemporary spirit of Chinese scientists, and embody a vision of progress for humanity and harmony for the world.

3. Creating a platform for mutual learning among civilizations

Adhering to the principle of appreciating diversity and advancing together, the program will foster cross-border, cross-disciplinary, and cross-cultural dialogue. A series of innovation-driven exchanges will encourage mutual learning among civilizations, build consensus on global cooperation, and contribute to an open, fair, just, and non-discriminatory international environment for science and technology.

CAST International Month 2025 Event List

CAST International Month 2025: Events organized by section

Flagship Conferences on Science Diplomacy				
No.	Name	Date	Venue	Host/Organizer
1	2025 World New Energy Vehicle Congress	September 27-29	Haikou	China Association for Science and Technology, Hainan Provincial Government, and China's Ministry of Science and Technology and Ministry of Industry and Information Technology
2	World Federation of Engineering Organizations 2025 General Assembly & Global Engineering Congress	October 12-17	Shanghai	World Federation of Engineering Organizations, China Association for Science and Technology, Chinese Academy of Engineering, and Shanghai Municipal Government
3	2025 World Young Scientists Summit	October 24-26	Wenzhou	China Association for Science and Technology and Zhejiang Provincial Government
4	2025 World Science and Technology Development Forum—Beijing Main Event	October 27-29	Beijing	China Association for Science and Technology
Dialogue on Science Driving Future Development				
No.	Name	Date	Venue	Host/Organizer
5	International Conference on Low-Carbon Building Daylighting, Shading, and Photovoltaic Integration, with related exchange activities	September 22-27	Changsha	Hunan University

continued Table

No.	Name	Date	Venue	Host/Organizer
6	International Conference on New Power System Technology 2025	September 24-25	Hefei	Chinese Society for Electrical Engineering, IEEE Power & Energy Society and International Council on Large Electric Systems (CIGRE) China National Committee
7	2025 International Conference of Physiological Sciences	October 9-12	Hangzhou	Chinese Association for Physiological Sciences
8	9th International Conference on Electromagnetic Field Problems and Applications	October 10-12	Harbin	China Electrotechnical Society
9	International Symposium on Advances in Biomedical Research	October 10-12	Shaoxing	Chinese Society for Biomaterials
10	World Materials Conference 2025	October 14-17	Guilin	Chinese Materials Research Society and International Union of Materials Research Societies
11	IUTOX 17th International Congress of Toxicology	October 15-18	Beijing	Chinese Society of Toxicology and International Union of Toxicology
12	2025 (5th) International Conference on Non-Ferrous Materials	October 16-19	Beijing	Nonferrous Metals Society of China
13	2025 International Conference on Reliability Science and Engineering of Complex Systems	October 17-18	Beijing	Chinese Institute of Command and Control
14	7th International Conference on Electrical Engineering and Information Technologies for Rail Transportation	October 17-19	Lanzhou	China Electrotechnical Society and State Key Laboratory of Advanced Rail Autonomous Operation of Beijing Jiaotong University

continued Table

No.	Name	Date	Venue	Host/Organizer
15	16th Asia Pacific Physics Conference	October 19-24	Haikou	Chinese Physical Society and Association of Asia Pacific Physical Societies
16	10th Asian Federation of Laboratory Animal Science Associations Congress and 18th Annual Conference on Laboratory Animal Science and Technology of China	October 21-24	Hangzhou	Asian Federation of Laboratory Animal Science Associations and Chinese Association for Laboratory Animal Sciences
17	9th International Conference on Vibration Engineering	October 24-26	Nanjing	Chinese Society for Vibration Engineering and Chinese Society of Theoretical Applied Mechanics
18	IEEE World Forum on Internet of Things 2025	October 27-30	Chengdu	China Instrument and Control Society and IEEE IoT Technical Committee
19	11th International Symposium on Cement & Concrete	October 31-November 2	Beijing	Chinese Ceramic Society and China Building Materials Academy
20	2025 International Conference of Electrical, Electronic, and Networked Energy Systems	October 31- November 2	Hangzhou	China Electrotechnical Society and China Highway and Transportation Society
21	9th International Conference on High Strength Low Alloy Steels	November 2-4	Nanjing	Chinese Society for Metals
22	International Symposium on Emergency Management 2025	November 7-9	Beijing	Chinese Society of Optimization, Overall Planning and Economic Mathematics
23	2025 IEEE International Power Electronics and Application Symposium	November 7-10	Shenzhen	China Power Supply Society and IEEE Power Electronics Society

continued Table

No.	Name	Date	Venue	Host/Organizer
24	25th Asia-Pacific Industrial Engineering and Management Systems Conference	November 7-11	Hangzhou	Chinese Mechanical Engineering Society
25	23rd Asia Workforce Forum	November 12-14	Beijing	Chinese Nursing Association and International Council of Nurses
26	2025 International Conference on Electromagnetic Nondestructive Evaluation	November 18-21	Xiamen	Chinese Mechanical Engineering Society
27	International Roundtable Conference on Space Science	November 21	Beijing	Chinese Society of Space Research
People-to-People Exchange on Openness, Trust, and Cooperation				
No.	Name	Date	Venue	Host/Organizer
28	9th Belt and Road Teenager Maker Camp and Teacher Workshop (China-ASEAN Teenager Maker Camp)	September 14-20	Nanning	China Association for Science and Technology, China's Ministry of Science and Technology, and the Government of Guangxi Zhuang Autonomous Region
29	2025 China-US Young Scientists Exchange in Neuroscience	September 25-28	Xi'an	Chinese Neuroscience Society
30	2nd Chinese-Russian Science and Technology Translation Contest (China-Russia Engineering Technology Forum and China-Russia Digital Summit Forum supporting event)	October 11-26	Harbin	Russian Union of Scientific and Engineering Associations and Heilongjiang Provincial Government
31	13th International Conference on Intelligent Technology for Agriculture	October 16-19	Tianjin	Beijing Academy of Agriculture and Forestry Sciences, China Association of Agricultural Science Societies, Chinese Society of Agricultural Engineering, Chinese Society for Agricultural Machinery and China Agricultural Mechanization Association

continued Table

No.	Name	Date	Venue	Host/Organizer
32	China-Russia Engineering Technology Forum and China-Russia Digital Summit Forum (2025 World Science and Technology Development Forum supporting event)	October 19-22	Harbin	Russian Union of Scientific and Engineering Associations and Heilongjiang Provincial Government
33	China-South Africa Young Scientists Forum	October 20-22	Changsha	Hunan Association for Science and Technology (organizer) and South African Council for Natural Scientific Professions
34	2025 Exchange Event for Representative Offices of Overseas Chinese Science and Technology Associations (Tianjin)	October 22-24	Tianjin	Tianjin Association for Science and Technology and Tianjin Municipal Bureau of Human Resources and Social Security
35	2025 World Laureates Forum opening ceremony and awards ceremony for WLA Prize (World Science and Technology Development Forum supporting event)	October 24	Shanghai	World Laureates Association
36	2025 China-ASEAN Engineers Forum	October 29	Mabalacat City, the Philippines	ASEAN Federation of Engineering Organisations and Chinese Society of Engineers
37	2025 International Smart Transportation Symposium	October 30-November 1	Shenzhen	China Highway and Transportation Society and Southeast University
38	Annual Meeting of Overseas Chinese Entrepreneurship Alliance	Early November	Guangzhou	Overseas Chinese Entrepreneurship Alliance

continued Table

No.	Name	Date	Venue	Host/Organizer
Innovation and Mutual Learning among Civilizations				
No.	Name	Date	Venue	Host/Organizer
39	China (Guangxi)-ASEAN Young Scientists Dialogue on Artificial Intelligence	September 19	Nanning	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 Expositions Bureau
40	Global Simulation Conference 2025	September 19-22	Hangzhou	Asia Simulation Federation
41	3rd International Conference on Mechanical System Dynamics	September 23-27	Cluj-Napoca, Romania	International Society of Mechanical System Dynamics
42	“HydroSphere: Connecting the Global Hydrogen Ecosystem” International Conference	September 25	Paris, France	International Hydrogen Fuel Cell Association and China Society of Automotive Engineers
43	International Forum of Intelligent Manufacturing Innovation	October 12	Wuhan	International Coalition of Intelligent Manufacturing
44	International Youth Development Forum on Mechanical System Dynamics	October 17-18	Nanjing	International Society of Mechanical System Dynamics
45	China-Europe Biodiversity Exchange	October 22-24	Haikou	International Society of Zoological Sciences and Sino-French International Research Network on Biodiversity
46	24th International Congress of Zoology	October 26-29	Beijing	International Society of Zoological Sciences

continued Table

No.	Name	Date	Venue	Host/Organizer
47	International Exchange on Green Hydrogen Applications for Deep Decarbonization (World Science and Technology Development Forum parallel forum)	October 28	Beijing	International Hydrogen Fuel Cell Association
48	“Meeting Challenges: Biological Consequences of Global Change” Forum (World Science and Technology Development Forum parallel forum)	October 28	Beijing	International Society of Zoological Sciences
49	Digital Earth for Sustainable Development Forum (World Science and Technology Development Forum parallel forum)	October 28	Beijing	International Society for Digital Earth
50	International Intelligent Manufacturing Symposium (World Science and Technology Development Forum parallel forum)	October 28	Beijing	International Coalition of Intelligent Manufacturing
51	“Young Scientists Exchange: Science Diplomacy Career Development” Forum (World Science and Technology Development Forum parallel forum)	October 28	Beijing	World Association of Young Scientists
52	“Simulation Technology: Powering Advanced Manufacturing” Forum (World Science and Technology Development Forum parallel forum)	October 28	Beijing	Asia Simulation Federation

continued Table

No.	Name	Date	Venue	Host/Organizer
53	“Embodied Intelligence: Integrating Artificial Intelligence and Robotics” Forum (World Science and Technology Development Forum parallel forum)	October 28	Beijing	World Robot Cooperation Organization
54	“One Health in the Context of Rapid Urbanization” Forum (World Science and Technology Development Forum parallel forum)	October 29	Beijing	International Science Council Urban Health & Wellbeing Programme, CAST UN Consultative Committee on Life Science and Human Health, and Chinese Society of Biomedical Engineering
55	“Open Science: Prospects for Global Cooperation” Forum (World Science and Technology Development Forum parallel forum)	October 29	Beijing	CAST UN Consultative Committee on Open Science and Global Partnership
56	International Society of Mechanical System Dynamics Technical Committee Annual Academic Event	Late October-November	Nanjing or Hangzhou	International Society of Mechanical System Dynamics
57	UN Climate Change Conference (COP 30) Side Event: Green Hydrogen for Global Energy Transition and Climate Goals: Innovation, Applications, and Inclusive Development	November 13	Belém, Brazil	International Hydrogen Fuel Cell Association
58	Asia Simulation Conference	November 17-19	Singapore	Asia Simulation Federation

CAST International Month 2025 Program Overview

CAST International Month 2025: Event details

Flagship Conferences on Science Diplomacy

WNEVC

September 27-29

Haikou

2025 World New Energy Vehicle Congress

1

Host/Organizer: China Association for Science and Technology, Hainan Provincial Government, and China's Ministry of Science and Technology and Ministry of Industry and Information Technology

Description:

Themed “Shaping the Future of Mobility through Green Technology,” the congress will bring together leaders from government, industry, and academia worldwide. It will explore sustainable development pathways with new energy vehicles at its core and promote a transition from competition to coexistence across the industry, injecting green momentum into the shared future of humanity. A vital platform for global automotive stakeholders to exchange ideas, foster green and intelligent transformation, and address climate change, the congress will feature 18 thematic sessions, two closed-door meetings, a technology exhibition, scientific and technological awards event, and a series of science outreach activities.



October 12-17
Shanghai

World Federation of Engineering Organizations 2025 General Assembly & Global Engineering Congress

2

Host/Organizer: World Federation of Engineering Organizations, China Association for Science and Technology, Chinese Academy of Engineering, and Shanghai Municipal Government

Description:

Under the theme “Engineering Shapes a Green Future,” this event will serve as a bridge for in-depth international exchange and cooperation across the global engineering community. It will bring together collective wisdom and strength to inject new momentum into building a community with a shared future for humanity. Discussions will explore how engineering and technology can tackle climate change, drive green economic growth, and accelerate progress toward the Sustainable Development Goals. The program includes an opening ceremony, the Global Engineering Congress, the WFEO General Assembly, and WFEO committee meetings. Discussions will highlight cutting-edge engineering science, green development, and capacity building. A special capacity-building workshop will showcase China’s engineering achievements and demonstrate an open and inclusive vision of international cooperation.



October 24-26
Wenzhou

2025 World Young Scientists Summit

3

Host/Organizer: China Association for Science and Technology and Zhejiang Provincial Government

Description:

With the theme “Converging the World’s Talent, Creating a Better Future,” the summit focuses on youth development, sustainable growth, scientific innovation, and open cooperation. It highlights frontier technologies and the nurturing of young global talent, providing an open and inclusive international platform for exchange among young scientists from around the world. The program adopts a “1+11+1+N” format: one plenary session, 11 parallel sessions, one Universal Gravitation π event, and a series of regional outreach and local empowerment activities. Together, these create an integrated framework—anchored by the plenary, enriched through the parallel sessions, translated into action through the Universal Gravitation π event, and extended through regional initiatives.



October 27-29
Beijing

2025 World Science and Technology Development Forum-Beijing Main Event

4

Host/Organizer: China Association for Science and Technology

Description:

Themed “Artificial Intelligence for Science and Development,” the event will feature focused discussions on four key areas: AI and future industries, green technologies for modernizing traditional sectors, the One Health paradigm in medicine-engineering integration, and open science through global collaboration. Across ten high-level forums, renowned experts from China and abroad will share the latest advances in basic research and frontier technologies, explore new trends in AI, and foster international dialogue. The event seeks to leverage AI to drive high-quality growth and improve quality of life, while working together to address the urgent challenges of sustainable development and contribute both scientific expertise and global solutions for the shared future of humanity.

Dialogue on Science Driving Future Development

ieaIEA SBC TASK 28-EPIC ASKES 20
CONFERENCESeptember 22-27
Changsha

International Conference on Low-Carbon Building Daylighting, Shading, and Photovoltaic Integration, with related exchange activities

5

Host/Organizer: Hunan University**Description:**

As part of the International Energy Agency's Solar Heating and Cooling Technology Collaboration Programme on Low-Carbon and High-Comfort Daylighting Technologies, international experts will participate in the programme's 6th Expert Group Meeting, the 2nd International Conference on Low-Carbon Building Daylighting, Shading, and Photovoltaic Integration, site visits, and a series of science, technology, and cultural exchange activities. These events aim to promote broad multilateral cooperation between China and partners in Europe and the Americas in low-carbon, healthy lighting; strengthen both scientific collaboration and cultural dialogue; deepen international experts' understanding of central Chinese cities; and foster closer academic exchange between Chinese and international specialists.



September 24-25
Hefei

International Conference on New Power System Technology 2025

6

Host/Organizer: Chinese Society for Electrical Engineering, IEEE Power & Energy Society and International Council on Large Electric Systems (CIGRE) China National Committee

Description:

Themed “Building New Power Systems to Drive the Low-Carbon Energy Transition,” the conference will feature keynote addresses, specialized technical symposia, paper presentations, and a small exhibition. Scholars from China and abroad will discuss the development of new power systems, explore pathways for green, low-carbon, and high-quality growth in the energy sector, and share insights on key technologies, operational practices, emerging applications, and practical solutions. The event will also present China’s achievements in power technology development to the international community.



October 9-12
Hangzhou

2025 International Conference of Physiological Sciences

7

Host/Organizer: Chinese Association for Physiological Sciences

Description:

Focusing on cutting-edge topics in physiology and related fields, the conference will feature 32 parallel sessions spanning the full spectrum of physiological sciences, including fitness research, translational neuroscience, pain research, exercise physiology, circulatory physiology, digestive and nutritional sciences, comparative physiology, integrative physiology, matrix biology, the human microbiome, aging and health, traditional Chinese medicine and brain homeostasis regulation, brain rhythms, endocrine and metabolic physiology, and more.



October 10-12
Harbin

9th International Conference on Electromagnetic Field Problems and Applications

8

Host/Organizer: China Electrotechnical Society

Description:

Centered around electromagnetic field problems and applications, the conference will address static and quasi-static fields, coupling issues, material modeling, electromagnetic devices, and related applications. Academic activities will include plenary lectures, paper presentations, poster sessions, pre-conference technical reports, parallel technical sessions, and site visits. The aim is to provide a high-level international forum for experts, researchers, engineers, and young scholars from academia and industry to showcase the latest research advances and engage in in-depth discussions on electromagnetic field problems and applications.



October 10-12
Shaoxing

International Symposium on Advances in Biomedical Research

9

Host/Organizer: Chinese Society for Biomaterials

Description:

The symposium will spotlight the latest international developments, bringing together leading scholars from South Korea, Japan, the United States, and beyond to deepen interdisciplinary exchange and promote collaboration across academia, industry, and research. Sessions will span topics such as young scientist exchange, basic research, technological innovation, and clinical translation. Key themes include bone repair materials, nano-drug delivery systems, tissue engineering, organ fabrication, and advances in biomedical metals and polymers. The event will serve as a high-level platform for biomaterials researchers worldwide, fostering scientific innovation, driving industrial applications, and contributing to the advancement of human health.



October 14-17
Guilin

World Materials Conference 2025

10

Host/Organizer: Chinese Materials Research Society and International Union of Materials Research Societies

Description:

With the theme “Future and Innovation of Materials Science,” the conference will spotlight cutting-edge advances and technological innovation in materials science. Distinguished scholars from Europe, Japan, South Korea, India, Singapore, and other regions will join Chinese experts in shaping the program and discussions. The event will address six international core themes: energy materials, advanced information materials, advanced structural materials, advanced functional materials, biomaterials, and computational materials. Featuring 35 thematic sub-forums, keynote lectures, workshops, poster sessions, and a Young Scientists Forum, the conference aspires to build a high-level, multidimensional, and international platform for academic exchange, driving global knowledge sharing and technological cooperation in materials science.



October 15-18
Beijing

IUTOX 17th International Congress of Toxicology

11

Host/Organizer: Chinese Society of Toxicology and International Union of Toxicology

Description:

The congress, themed “Toxicology for a Safe Environment and Healthy Life,” will showcase the latest scientific advances, technological innovations, and applications across the field. Topics will include environmental toxicology, nanotoxicology, pharmaceutical toxicology, food safety and risk assessment, toxicology of traditional medicine and natural products, clinical and industrial toxicology, chemical toxicology, next-generation risk assessment, and the biosafety of new energy technologies. The program will feature continuing education workshops, an opening ceremony, keynote lectures, plenary sessions, panel discussions, a closing ceremony, and a focused exhibition.



October 16-19
Beijing

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

12

Host/Organizer: Nonferrous Metals Society of China

Description:

Under the theme “Collaborative Innovation for Independent and Self-Reliant Development,” the conference responds to the global transformation and upgrading of the new materials industry. Renowned experts from China and abroad will deliver plenary and parallel-session reports, sharing the latest achievements and perspectives in non-ferrous materials. The event aims to foster greater openness, cooperation, and innovation in the industry. Activities include the opening ceremony, plenary keynotes, and thematic sessions focused on the latest research results, professional exchange, and critical challenges and trends shaping the field.



October 17-18
Beijing

2025 International Conference on Reliability Science and Engineering of Complex Systems

13

Host/Organizer: Chinese Institute of Command and Control

Description:

Themed “Reliability for AI & AI for Reliability,” the conference will cover topics including intelligent reliability, reliable intelligence, confidence-based reliability theory and applications, systems medicine, and medicine-engineering integration. The program will feature an opening ceremony, keynote lectures, specialized workshops, and a focused exhibition. Participants from universities, research institutes, and high-tech enterprises engaged in reliability research, production, and applications will exchange insights and foster collaboration.



October 17-19
Lanzhou

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

14

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

Description:

Themed “Smart, Safe, and Green Rail Transport,” the conference will cover topics including rail traction and energy technologies, system safety and maintenance, operations management, and advanced information technologies for rail systems. The program features plenary sessions, specialized symposia, technical committee meetings, oral presentations, and poster sessions. It will provide a high-level international platform for scholars, researchers, and engineers to share the latest progress in railway electrical engineering and intelligent operations.

APPC16

THE 16TH ASIA PACIFIC
PHYSICS CONFERENCE
第十六届亚太物理会议

October 19-24
Haikou

16th Asia Pacific Physics Conference

15

Host/Organizer: Chinese Physical Society and Association of Asia Pacific Physical Societies

Description:

This conference aims to showcase frontier achievements in Chinese physics and provide a platform for international exchange and interdisciplinary collaboration. It comprises the AAPPS working meetings and public academic sessions, including the AAPPS Council Meeting, 10 parallel sessions focused on core areas of physics research, and four thematic symposia.



October 21-24
Hangzhou

10th Asian Federation of Laboratory Animal Science Associations Congress and 18th Annual Conference on Laboratory Animal Science and Technology of China



16

Host/Organizer: Asian Federation of Laboratory Animal Science Associations and Chinese Association for Laboratory Animal Sciences

Description:

Themed “Laboratory Animal Science & Technology and Human Health,” the congress will feature Nobel laureates and distinguished experts from over 10 countries and regions in fields such as laboratory animal science, life sciences, and medicine. Keynote and thematic session presentations will cover the latest frontiers of research, with the goal of promoting academic exchange and global collaboration in laboratory animal science.



October 24-26
Nanjing

9th International Conference on Vibration Engineering

17

Host/Organizer: Chinese Society for Vibration Engineering and Chinese Society of Theoretical Applied Mechanics

Description:

The conference will feature 22 parallel sessions covering core areas of dynamics, vibration, and control. Topics include multibody and robotic dynamics, spacecraft dynamics and control, vehicle and transportation system dynamics, neurodynamics and oscillations in biological systems, and aeroelastic dynamics with fluid-structure interaction.



October 27-30
Chengdu

IEEE World Forum on Internet of Things 2025

18

Host/Organizer: China Instrument and Control Society and IEEE IoT Technical Committee

Description:

Themed “Smart and Sustainable IoT,” the forum will bring together leading academics and industry pioneers to share the latest breakthroughs in IoT technologies and applications. Discussions will focus on intelligent instrumentation, data acquisition and smart decision-making, AI-IoT integration, and emerging applications. The event will foster diverse forms of collaboration, expand international cooperation networks, and provide an open platform for advancing IoT in fields such as intelligent sensing, smart monitoring and control, and information and communication technologies.



October
31-November 2
Beijing

11th International Symposium on Cement & Concrete

19

Host/Organizer: Chinese Ceramic Society and China Building Materials Academy

Description:

Themed “Low-Carbon Drives Development, Digital Intelligence Leads the Future,” the symposium will feature eight specialized topics: cement chemistry and low-carbon binders; concrete durability and low-carbon concrete; functional cement-based materials; CO₂-mineralized building materials and products; simulation and digital technologies; disruptive frontier technologies; low-carbon processes and equipment; and testing, characterization, and standardization. It will review the latest research progress, examine the challenges of low-carbon, green, and digital transformation in the cement and concrete industry, and foster global scientific exchange and cooperation to enhance the sector’s contribution to sustainable development. The program will include an opening ceremony, plenary lectures, and parallel sessions.



October 31-
November 2
Hangzhou

2025 International Conference of Electrical, Electronic, and Networked Energy Systems

20

Host/Organizer: China Electrotechnical Society and China Highway and Transportation Society

Description:

Themed “Electrical, Electronic, and Networked Energy Systems,” this conference will provide a platform for researchers, engineers, and industry experts to share their latest findings and innovative ideas in power, electrical, and energy engineering. Topics include power electronics, electric drives, smart grids, integrated transportation-energy development, and the energy internet. Through academic exchange, industry matchmaking, and exhibitions, the event will promote international cooperation in China’s electrical technologies, power equipment, and energy systems. The program will feature an opening ceremony, keynote speeches, and multiple parallel sessions.



November 2-4
Nanjing

9th International Conference on High Strength Low Alloy Steels

21

Host/Organizer: Chinese Society for Metals

Description:

The conference will focus on physical metallurgy, product development and applications, performance and safety, and high-quality processing technologies. Topics include alloy design, recrystallization, mechanical properties, strengthening mechanisms, simulation and modeling, sheet, strip, long products, cast steels, welding performance, corrosion resistance, hydrogen embrittlement, formability, secondary refining and continuous casting, thermo-mechanical controlled processing, thin-slab casting and rolling, endless rolling, strip casting, heat treatment, and metal coatings. It will provide a global platform for researchers in advanced steel materials to share the latest achievements in microalloying technology, fostering mutual learning and collective progress.



November 7-9
Beijing

International Symposium on Emergency Management 2025

22

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

Description:

Themed “Emergency Management Supporting the Modernization of National Security Systems and Capabilities,” the symposium will feature an opening ceremony, keynote speeches, best paper awards, and a closing ceremony. It aims to promote academic exchange in China and beyond, advance the discipline of emergency management, and apply mathematics, computing, artificial intelligence, and big data to the development of emergency management science.

IEEE
PE&AS 2025

November 7-10
Shenzhen

2025 IEEE International Power Electronics and Application Symposium

23

Host/Organizer: China Power Supply Society and IEEE Power Electronics Society

Description:

With the theme “Power Electronics and Energy Conversion,” the symposium will feature an opening ceremony, plenary lectures, keynote presentations, poster sessions, technical sessions, and industrial forums. Topics include DC transmission and distribution, DC power supplies, power conversion technologies, encoderless control, power processing, power electronics applications, marine AIoT-based energy storage systems, and advances in power semiconductor chips and modules.



November 7-11
Hangzhou

25th Asia-Pacific Industrial Engineering and Management Systems Conference

24

Host/Organizer: Chinese Mechanical Engineering Society

Description:

With the theme “Artificial Intelligence-Driven Industrial Engineering,” the conference will spotlight innovation and development in industrial engineering and management systems powered by AI. The program includes keynote speeches, invited talks, a discipline development forum, a young scholars forum, a doctoral dissertation session, academic paper presentations, and an entrepreneurs’ roundtable. Discussions will address AI applications, intelligent manufacturing systems, lean production, decision-making under uncertainty, and the green and resilient development of future urban transportation, providing a platform to share the latest research findings and practical experience.



November 12-14
Beijing

23rd Asia Workforce Forum

25

Host/Organizer: Chinese Nursing Association and International Council of Nurses

Description:

This forum will focus on the global status of nursing, workforce strategies and actions, and the enhancement of nurses’ technical expertise and skills. The program includes welcome addresses, country and regional reports by nursing associations, thematic meetings, roundtable discussions, and field visits. By strengthening exchange between Chinese and Asian nursing professionals, the forum aims to promote the advancement of nursing in Asia and contribute to improving human resource conditions in healthcare across the region.



November 18-21
Xiamen

2025 International Conference on Electromagnetic Nondestructive Evaluation

26

Host/Organizer: Chinese Mechanical Engineering Society

Description:

Themed “The Electromagnetic Eye: Intelligent Protection for a New Era of Nondestructive Testing,” the conference will feature invited frontier lectures, oral and poster presentations, a symposium on international standards, and an exhibition of intelligent testing equipment. The event aims to move beyond the traditional boundaries of techniques such as eddy current, magnetic flux leakage, and magnetic memory, and to systematically build an innovative detection and monitoring framework based on electromagnetic fields. Keeping pace with the wave of the Fourth Industrial Revolution, it will convene experts in artificial intelligence, robotics, bioelectromagnetics, and related fields to explore new directions for electromagnetic nondestructive evaluation.



November 21
Beijing

International Roundtable Conference on Space Science

27

Host/Organizer: Chinese Society of Space Research

Description:

Focusing on “International Cooperation in Space Science,” the roundtable will bring together renowned space scientists from countries including the United States, France, and Spain, along with decision-makers from institutions such as the European Space Agency. The agenda includes an introduction to the conference theme, presentations by participating scientists, open discussions, and a concluding summary.

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



September 14-20
Nanning

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

28

Host/Organizer: China Association for Science and Technology, China's Ministry of Science and Technology, and the Government of Guangxi Zhuang Autonomous Region

Description:

Themed “Embracing the Digital and Intelligent Silk Road,” the camp will bring together students and teachers from seven ASEAN and Belt and Road countries. The program features 15 AI-focused international education workshops, seven science and culture field trips, a teacher workshop, and a dialogue with scientists. By combining technological practice, cultural exchange, and academic dialogue, the event—organized through the China-ASEAN International Science Popularization Exchange Center and the World Association of Young Scientists—aims to strengthen cooperation in research, training, and exchange between the ASEAN Academy of Engineering and Technology and universities in Guangxi.



September 25-28
Xi'an

2025 China-US Young Scientists Exchange in Neuroscience

29

Host/Organizer: Chinese Neuroscience Society

Description:

Jointly launched by the Chinese Neuroscience Society and the Society for Neuroscience (SfN), this program aims to strengthen academic exchange and collaboration among early-career neuroscientists from both countries. About 15 young US researchers will be selected through SfN's open call to participate in the annual meeting of the Chinese Neuroscience Society. The four-day program will feature an International Youth Forum, oral presentations, poster sessions, and specialized workshops. By combining open recruitment with targeted invitations, forums with collaborative projects, and meetings with follow-up exchanges, the program seeks to establish a sustainable and influential platform for young neuroscience talent.



October 11-26
Harbin

2nd Chinese-Russian Science and Technology Translation Contest (China-Russia Engineering Technology Forum and China-Russia Digital Summit Forum supporting event)

30

Host/Organizer: Russian Union of Scientific and Engineering Associations and Heilongjiang Provincial Government

Description:

This contest aims to strengthen Russian translation training, enhance interdisciplinary talent development, advance research in science and technology translation, and deepen Chinese-Russian cooperation. Preliminary and semifinal rounds in both countries will each select up to 15 participants from universities and independent groups for the semifinals, from which six will advance to the finals. The final competition will award one first prize, two second prizes, and three third prizes. Prize winners will be invited to undertake study visits in the partner country and join a variety of science, technology, and cultural exchange activities. By serving as a model for talent training and cooperation, the contest helps drive China-Russia scientific and technological exchange to greater depth and substance.



October 16-19
Tianjin

13th International Conference on Intelligent Technology for Agriculture

31

Host/Organizer: Beijing Academy of Agriculture and Forestry Sciences, China Association of Agricultural Science Societies, Chinese Society of Agricultural Engineering, Chinese Society for Agricultural Machinery and China Agricultural Mechanization Association

Description:

This conference will focus on key themes including agricultural sensors, remote sensing, AI and large models in agriculture, agricultural robotics and intelligent equipment, and smart farming practices. It will bring experts and scholars from China and abroad together to share the latest research findings and practical applications. By fostering collaboration among academia, industry, government, and end users, the event aims to drive innovation and advance the global development of smart agriculture.



October 19-22
Harbin

China-Russia Engineering Technology Forum and China-Russia Digital Summit Forum (2025 World Science and Technology Development Forum supporting event)

32

Host/Organizer: Russian Union of Scientific and Engineering Associations and Heilongjiang Provincial Government

Description:

Themed “Smart Engines for the Future, New Ecosystems for Engineering,” this forum will include an opening ceremony, a main forum, and multiple thematic sessions. Discussions will highlight cross-disciplinary innovation in areas such as artificial intelligence and polar marine equipment, the low-altitude economy, oil and gas resource development, and welding engineering. Participants will include leading experts, as well as representatives from enterprises, government agencies, national societies, and provincial associations. Winners of the China-Russia Youth Innovation and Entrepreneurship Competition and the China-Russia Science and Technology Translation Contest will also join. The forum seeks to deepen China-Russia exchange in science, technology, and culture, advance global scientific and technological progress, and accelerate the development of China’s northern gateway for opening-up.



October 20-22
Changsha

China-South Africa Young Scientists Forum

33

Host/Organizer: Hunan Association for Science and Technology (organizer) and South African Council for Natural Scientific Professions

Description:

Themed “Young Scientists at the Forefront: Roles and Growth in Addressing Global Challenges,” this forum will bring together renowned experts, including leading women scientists. The program features an opening ceremony, keynote speeches, roundtable discussions, and field visits, alongside parallel events such as the 2025 China-South Africa Forum on Innovation Cooperation in Smart, Green, and Sustainable Transport and the China-South Africa Clean Energy Symposium. The forum aims to foster scientific dialogue, consolidate Hunan’s leading role in China-Africa cooperation, expand channels for collaboration, and establish a long-term mechanism for youth talent exchange between the two countries.



October 22-24
Tianjin

2025 Exchange Event for Representative Offices of Overseas Chinese Science and Technology Associations (Tianjin)

34

Host/Organizer: Tianjin Association for Science and Technology and Tianjin Municipal Bureau of Human Resources and Social Security

Description:

Themed “Pooling Wisdom, Creating the Future Together,” this event will focus on international academic collaboration, offshore innovation and entrepreneurship services, and the incubation and commercialization of scientific achievements. The program will feature research visits, enterprise match-making, seminars, and cultural exchange activities. Leaders of overseas Chinese science and technology associations—such as the Association of Chinese-European Innovation and Entrepreneurship and the Sino-European Federation of Life Sciences—will be invited to participate. The event seeks to strengthen the global network for collaboration with overseas talent, enhance their sense of connection and contribution, and better serve the needs of scientists and innovators abroad. By fostering high-level openness and deep integration of technological and industrial innovation, it aims to support sustainable, efficient, and healthy regional economic growth.



October 24
Shanghai

2025 World Laureates Forum opening ceremony and awards ceremony for WLA Prize (World Science and Technology Development Forum supporting event)

35

Host/Organizer: World Laureates Association

Description:

Launched by the World Laureates Association in 2018, the forum has since been held six times, becoming a key hub that connects the world's leading scientists and fosters high-level dialogue across the global research community. It serves as a platform for distinguished scholars to exchange ideas, strengthen international cooperation, and advance scientific progress. The 2025 WLA Prize awards ceremony will take place alongside the opening of the 2025 World Laureates Forum, with three laureates recognized in Computer Science or Mathematics and Life Science or Medicine joining the event and participating in a series of exchange activities.



October 29
Mabalacat City,
the Philippines

2025 China-ASEAN Engineers Forum

36

Host/Organizer: ASEAN Federation of Engineering Organisations and Chinese Society of Engineers

Description:

Now in its fourth edition, the China-ASEAN Engineers Forum has grown into an institutionalized platform for cooperation between Chinese and ASEAN engineering organizations. To further deepen practical collaboration with the ASEAN Federation of Engineering Organizations, promote exchange and mutual learning among engineers, and expand partnerships between the Chinese Society of Engineers and its ASEAN counterparts, the 2025 forum will be held under the theme "AI-Driven Engineering Innovation." It will spotlight how artificial intelligence is powering technological breakthroughs and accelerating their application in engineering practice. Discussions will also explore engineer training and capacity development in the digital era. The forum aims to strengthen trust and partnership within the engineering community, promote cross-border talent mobility, and help build a closer China-ASEAN community with a shared future.



October
30-November 1
Shenzhen

2025 International Smart Transportation Symposium

37

Host/Organizer: China Highway and Transportation Society and Southeast University

Description:

Smart cities and smart highways are key drivers of modernization. Emerging technologies such as artificial intelligence, autonomous driving, and vehicle–road collaboration are empowering intelligent transportation and enabling deeper integration between urban and transport systems. The symposium aims to break through existing technical, operational, and policy barriers, showcase achievements and best practices in smart transportation, and foster international collaboration between universities and enterprises.



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

Early November
Guangzhou

Annual Meeting of Overseas Chinese Entrepreneurship Alliance

38

Host/Organizer: Overseas Chinese Entrepreneurship Alliance

Description:

Themed “New Growth, Better Quality—Shared Future,” this year’s meeting will adopt a “1+5+X” format—one main forum, five sub-forums (on new energy vehicles, Healthy China, digital and intelligent technologies, science and finance, and AI-powered pharmaceutical innovation), plus a series of supporting activities. The event is designed to accelerate technology transfer, deepen integration of academia, industry, and research, strengthen government-enterprise engagement, promote cross-sector collaboration and drive high-quality regional economic progress.

Innovation and Mutual Learning among Civilizations



September 19
Nanning

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

39

Host/Organizer: 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 Expositions Bureau

Description:

Themed “Wisdom for ASEAN, Future for Youth—Empowering Innovation through AI, Building a Shared Future with Science, Technology, and Culture,” this dialogue responds to the Belt and Road Initiative and positions Guangxi as a hub for AI cooperation with ASEAN. It will foster high-level collaboration and joint progress in artificial intelligence, explore new pathways for integrating digital technologies with regional industries, and elevate China-ASEAN AI industry cooperation to new heights. In doing so, it will provide intellectual support for building a closer China-ASEAN community with a shared future. The event will bring together young scientists, industry leaders, and technology experts from across China and ASEAN to examine global AI trends, explore “AI+” applications in diverse sectors, and identify innovative models for cross-disciplinary integration. It will also launch collaborative research projects, cross-border talent development programs, and partnership agreements.



September 19-22
Hangzhou

Global Simulation Conference 2025

40

Host/Organizer: Asia Simulation Federation

Description:

Themed “Intelligent Simulation & Data Governance,” the conference focuses on seven key areas, including simulation theory, life sciences simulation, industrial digital twins, and AI-driven simulation. It will identify the Top Ten Frontier Questions in Simulation Science and Technology and release the *Hangzhou Declaration on Modeling and Simulation Shaping a Digitalized World*, calling for stronger international cooperation and talent development to help bridge the global digital divide. The program includes an opening ceremony, 14 specialized sub-forums, and the inaugural International Simulation Science and Technology Expo, providing a platform for deep integration across academia, industry, and research. More than 1,000 representatives from universities, research institutes, and enterprises from over 30 countries and regions will convene to explore the latest frontiers and trends in simulation technologies. Over 80 organizations are expected to reach cooperation agreements on industrial partnerships, global expansion, and technical collaboration.



September 23-27
Cluj-Napoca,
Romania

3rd International Conference on Mechanical System Dynamics

41

Host/Organizer: International Society of Mechanical System Dynamics

Description:

Under the theme “Advances in Mechanical System Dynamics Research Driving Industrial Development,” this conference will gather internationally renowned scientists for plenary sessions, parallel presentations, alongside the council meeting of the International Society of Mechanical System Dynamics. The event seeks to broaden cooperation with Belt and Road partner countries and promote global progress in the field of mechanical system dynamics.



September 25
Paris, France

“HydroSphere: Connecting the Global Hydrogen Ecosystem” International Conference

42

Host/Organizer: International Hydrogen Fuel Cell Association and China Society of Automotive Engineers

Description:

This conference will bring together leading representatives from major hydrogen enterprises and institutions in China and Europe. Through keynote speeches and thematic discussions, participants will share project experiences, address industry standards and policies, explore investment mechanisms, and assess regional development trends. The event aims to strengthen the global hydrogen value chain, accelerate commercialization, and support the global transition to clean energy and decarbonization.



October 12
Wuhan

International Forum of Intelligent Manufacturing Innovation

43

Host/Organizer: International Coalition of Intelligent Manufacturing

Description:

The forum will feature global leaders including the Honorary President of the International Coalition of Intelligent Manufacturing and professors from Huazhong University of Science and Technology. The program includes keynote speeches, thematic forums, technology showcases, and roundtable discussions. Designed to advance research and application of frontier intelligent manufacturing technologies, the forum will broaden international academic exchange while fostering innovation partnerships and talent development across the global manufacturing community.



October 17-18
Nanjing

International Youth Development Forum on Mechanical System Dynamics

44

Host/Organizer: International Society of Mechanical System Dynamics

Description:

Themed “Shaping the Future, Powered by Youth,” this forum will bring together leading experts and young scientists to advance dialogue in mechanical system dynamics. The program features thematic reports and academic salons, fostering stronger communication and collaboration among early- and mid-career scholars and women professionals worldwide. The forum also aims to broaden the visibility and impact of the International Society of Mechanical System Dynamics, leveraging its platform to strengthen global connections in the field.



October 22-24
Haikou

China-Europe Biodiversity Exchange

45

Host/Organizer: International Society of Zoological Sciences and Sino-French International Research Network on Biodiversity

Description:

The event will invite scholars from across Europe, particularly outstanding PhD graduates, to China to advance international exchange and integration in zoological research. It also aims to encourage postdoctoral study opportunities for both Chinese and European scholars in each other's countries. Activities include academic exchange sessions, visits to universities and research institutes in Haikou and field stations.



October 26-29
Beijing

24th International Congress of Zoology

46

Host/Organizer: International Society of Zoological Sciences

Description:

Themed “Biological Consequences of Global Change,” the congress will explore critical issues such as animal diseases, invasive species, pest management, and wildlife conservation. The program includes an opening ceremony, plenary lectures, parallel sessions, and a Young Scholars Forum, covering topics from physiological ecology and primate studies to ornithology, ruminant biology, and herpetology. The congress will also host the General Assembly of the International Society of Zoological Sciences, during which new executive committee members will be elected and six awards—three Outstanding Contribution Awards and three Young Scientist Awards—will be presented.



October 28
Beijing

International Exchange on Green Hydrogen Applications for Deep Decarbonization Forum (World Science and Technology Development Forum parallel forum)

47

Host/Organizer: International Hydrogen Fuel Cell Association

Description:

Themed “Promoting Green Hydrogen Applications as an Ideal Pathway for Deep Decarbonization in Modern Production and Life,” this exchange will bring together experts, scholars, and entrepreneurs from China and abroad. The program features opening remarks, keynote speeches, and roundtable discussions, with a focus on clarifying industry needs, expanding financing, optimizing operations, and strengthening regulatory and policy incentives. The goal is to accelerate advances in hydrogen technology and build a robust global hydrogen ecosystem.



October 28
Beijing

“Meeting Challenges: Biological Consequences of Global Change” Forum (World Science and Technology Development Forum parallel forum)

48

Host/Organizer: International Society of Zoological Sciences

Description:

This forum will convene leading experts and young scientists from China and around the world to address critical issues including climate change, animal diseases, endangered species protection, and invasive alien species. The program features an opening ceremony, keynote lectures, and thematic seminars, with the goal to promote international scientific exchange and foster consensus on tackling global biological challenges.



October 28
Beijing

Digital Earth for Sustainable Development Forum (World Science and Technology Development Forum parallel forum)

49

Host/Organizer: International Society for Digital Earth

Description:

Themed “Harnessing Big Data and AI for Achieving the Sustainable Development Goals,” the forum will feature 5-6 keynote addresses and a roundtable dialogue. About 50 distinguished experts and institutional representatives are expected to attend, including leaders from the International Society for Digital Earth, the African Association of Remote Sensing of the Environment, the International Society for Photogrammetry and Remote Sensing, the International Geographical Union, the UN Committee of Experts on Global Geospatial Information Management (UN-GGIM), the UN Global Geospatial Knowledge and Innovation Centre, the UN Open GIS Initiative, the UN-GGIM Academic and Private Sector Networks, the International Science Council’s Integrated Research on Disaster Risk program, the Geo-Informatics and Space Technology Development Agency in Thailand, the Seychelles Centre for Innovation and Sustainable Development, and the University of Energy and Natural Resources in Ghana. The forum will also launch the *Digital Earth Sustainable Development Initiative* and produce a perspective article on Digital Earth’s role in advancing global sustainability, to be published in a leading journal and helping to chart the future of the discipline.



October 28
Beijing

International Intelligent Manufacturing Symposium (World Science and Technology Development Forum parallel forum)

50

Host/Organizer: International Coalition of Intelligent Manufacturing

Description:

Themed “Artificial Intelligence in Science and Development,” the symposium will welcome the President of the International Coalition of Intelligent Manufacturing and the President of the Association of German Engineers. The program will feature keynote speeches, roundtable discussions, and the release of new standards for intelligent manufacturing. The event aims to drive innovation in the intelligent manufacturing industry, broaden international avenues for technical exchange and cooperation, and advance the integration of intelligent and green manufacturing technologies while strengthening standards systems.



October 28
Beijing

“Young Scientists Exchange: Science Diplomacy Career Development” Forum (World Science and Technology Development Forum parallel forum)

51

Host/Organizer: World Association of Young Scientists

Description:

Themed “Youth at the Helm: Shaping the Future of Global Governance,” the forum will bring together outstanding young scientists and entrepreneurs from China and abroad. It aims to build a bridge for international youth dialogue, spark reflection on innovation and empowerment, highlight the important role of young people in global governance, and foster consensus on the participation of young scientists in global science and technology governance.



October 28
Beijing

“Simulation Technology: Powering Advanced Manufacturing” Forum (World Science and Technology Development Forum parallel forum)

52

Host/Organizer: Asia Simulation Federation

Description:

Themed “Simulation-Driven Advanced Manufacturing,” this forum will bring together international experts from Singapore, South Korea, and other countries for academic presentations and panel discussions. It will address frontier issues in modeling and simulation and showcase breakthrough theories and technologies from around the world. The forum will also host the 2025 Council Meeting of the Asian Simulation Alliance, open new channels for international cooperation, and foster deeper integration and cross-disciplinary innovation in simulation science and technology.



October 28
Beijing

“Embodied Intelligence: Integrating Artificial Intelligence and Robotics” Forum (World Science and Technology Development Forum parallel forum)

53

Host/Organizer: World Robot Cooperation Organization

Description:

This forum will bring together representatives from international organizations, experts and scholars, and leading industry figures from China and abroad. The program will feature guest remarks, keynote speeches, results releases, thematic presentations, and entrepreneur dialogues. It aims to spark the exchange of ideas and insights, explore the latest advances, applications, challenges, and opportunities in AI and robotics, and promote technological innovation and cross-sector integration, ultimately contributing to sustainable economic and social development worldwide.



October 29
Beijing

“One Health in the Context of Rapid Urbanization” Forum (World Science and Technology Development Forum parallel forum)

54

Host/Organizer: International Science Council Urban Health & Wellbeing Programme, CAST UN Consultative Committee on Life Science and Human Health, and Chinese Society of Bio-medical Engineering

Description:

This forum will address complex health challenges from an integrated human-animal-environment perspective. Through cross-institutional, interdisciplinary, and cross-regional collaboration, it aims to sustainably balance and optimize the health of humans, animals, and ecosystems. The event will advance the development of the global One Health cooperation network, foster coordinated progress in planetary-urban-population health, and support the implementation of the *New Urban Agenda* and the UN Sustainable Development Goals.



October 29
Beijing

“Open Science: Prospects for Global Cooperation” Forum (World Science and Technology Development Forum parallel forum)

55

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

Description:

This forum will place open science at the center, bringing together representatives from international organizations, research institutions, and industry. It seeks to advance the *Initiative on International Cooperation in Open Science* jointly launched by China, Brazil, South Africa, and the African Union, and to turn open science practices into stronger global development partnerships. The forum will also support UNESCO's *International Decade of Science for Sustainable Development* by providing cooperation frameworks and concrete actions. Expected outcomes include reaching consensus on a global open science infrastructure under the UNESCO framework, launching a Chinese knowledge and data-sharing platform, and developing a system to monitor and evaluate the maturity of open science. Serving as a flagship platform for science diplomacy, the forum will inject fresh momentum into the achievement of the UN Sustainable Development Goals.



Late October-
November
Nanjing or
Hangzhou

International Society of Mechanical System Dynamics Technical Committee Annual Academic Event

56

Host/Organizer: International Society of Mechanical System Dynamics

Description:

Organized by the society's technical committees, this annual event will bring together renowned experts from China and abroad for committee meetings and academic sessions. It is designed to strengthen the development of the society's technical committees, enhance their role in fostering industry partnerships, and build greater capacity for delivering technical services across the field.



November 13
Belém, Brazil

UN Climate Change Conference (COP 30) Side Event: Green Hydrogen for Global Energy Transition and Climate Goals: Innovation, Applications, and Inclusive Development

57

Host/Organizer: International Hydrogen Fuel Cell Association

Description:

This side event will include opening remarks, keynote speeches, a round-table forum, a session summary, and closing remarks. It will showcase and share practical experiences from China and around the world in the green hydrogen sector, promote international cooperation and value-chain integration, and support progress in standardization, market development, and inclusive participation.



November 17-19
Singapore

Asia Simulation Conference

58

Host/Organizer: Asia Simulation Federation

Description:

This conference will bring together international experts, scholars, and industry representatives to deliver lectures and share insights. The program will feature high-level academic forums, industry matchmaking and exchange activities, discussions on upcoming international competitions in simulation science, and membership expansion initiatives of the Asian Simulation Alliance. The event will enhance the alliance's regional influence and organizational development, foster deeper cross-border integration in simulation technology, and promote advances in modeling and simulation across industry, research, and application. It will also broaden the alliance's global cooperation network and drive integrated development and international collaborative innovation.

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Editor: Ying Wenqi
Proofreader: Bai Ge
Designer: Zhang Shan

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<http://english.cast.org.cn/>
newsletter@cast.org.cn