7th IAA-CSA Conference on Advanced Space Technology

November 23-24, 2017
Shanghai, China

PROGRAM
7th IAA-CSA Conference on Advanced Space Technology

Contents

01 Organizers
04 Schedule
08 Keynote Speakers
12 Introduction of Organizations
16 Shanghai Main Roads Map & Shanghai Subway Map
17 Transportation

Theme
Space Technology Innovation and Commercial Space

Time
November 23–24, 2017

Venue
Shanghai Jian Guo Hotel
Add: No.439, Caoxi North Road, Xuhui District, Shanghai, China
### Local Organizing Committee

**Chair**
- BAO Weimin
  Director of Science & Technology Committee, CASC

**Vice Chairs**
- WANG Yiran
  Vice President and Secretary General, CSA
- DAI Shoulun
  President of SAST, CASC

**Members (The names are arranged alphabetically by surname)**
- DENG Ningfeng
  Director, China Center for Aerospace Science and Technology International Communications
- DING Xuchang
  President, the Kinetic Technology Academy, CASIC
- GUO Yong
  President, the Vehicle Technology Academy, CASIC
- LI Feng
  President, China Academy of Aerospace Aerodynamics, CASC
- LI Guoping
  Director General, Department of Systems Engineering, CNSA
- LI Hong
  President, China Academy of Launch Vehicle Technology, CASC
- LIU Meixuan
  President, China Academy of Aerospace Electronics Technology, CASC
- LIU Zhijiang
  President, Academy of Aerospace Propulsion Technology, CASC
- TIAN Weiping
  President, Academy of Aerospace Solid Propulsion Technology, CASC
- XI Quansheng
  President, Academy of Information Technology, CASIC
- XUE Huifeng
  President, China Aerospace Academy of Systems Science and Engineering, CASC
- ZHANG Hongtai
  President, China Academy of Space Technology, CASC
- ZHANG Hongwen
  President, Winged Vehicle Research Academy, CASIC
- ZHANG Zhongyong
  President, the Tenth Academy, CASIC
- ZHANG Zhongguang
  President, Defense Technology Academy, CASIC
- ZHUO Chao
  President, Sichuan Academy of Aerospace Technology, CASC

### International Program Committee

**Co-Chairs**
- HUA Chongzhi
  Vice President, SAST, CASC
- Jean-Michel Contant
  Secretary General, IAA

**Members (The names are arranged alphabetically by surname)**
- CAI Guobiao
  Dean, School of Astronautics, Beihang University
- CHEN Jie
  Chief Engineer, SAST
  Co-Editor, Acta Astronautica Journal
- CHERN Jeng-Shing
  Editor in Chief, Acta Astronautica
  Professor of Ryerson University
- CHONG Yan Joo
  Regional Secretary, IAA
- Graziani Filippo
  IAA Trustee
  President, GAUSS
- Jean-Pascal Le Franc
  Director, Programming, International and Quality, CNES
- LI Ming
  Vice President, China Academy of Space Technology (CAST)
  Full Member, IAA
- LI Shouping
  Dean, School of Law, Beijing Institute of Technology (BIT)
  Corresponding Member, IAA
- MA Haiquan
  Vice General Manager, Space Star Technology Limited Liability Company
- MIN Xiangjun
  Vice Director, China Centre for Resources Satellite Data and Application
  Full Member, IAA
- QIU Jiawen
  Chief Engineer, CAST
  Corresponding Member, IAA
- Fouse Scott
  IAA Trustee
  Vice-President, Lockheed Martin Space Systems Company
- WANG Chi
  Vice Director, National Space Science Center, China Academy of Sciences
  Corresponding Member, IAA
- WANG Guoqing
  Vice President, China Academy of Launch Vehicle Technology (CALT)
  Corresponding Member, IAA
- WU Weiren
  Chief Engineer, Lunar Exploration and Space Engineering Center,
  State Administration of Science, Technology and Industry for National Defense
  Full Member, IAA
- YUE Xiaokui
  Professor, School of Astronautics, Northwestern Polytechnical University

**Secretary General**
- WANG Yiran
  Vice President and Secretary General, CSA

**Deputy Secretary Generals**
- CHEN Jie
  Chief Engineer, SAST
  Co-Editor, Acta Astronautica Journal
- GUO Jianping
  Vice Secretary General, CSA
  Vice Director, International Cooperation Department, CASC
- ZHOU Shunhua
  Vice Secretary General, CSA
  Director General, Space Engineering Department, CASIC
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:50-10:10</td>
<td>Break and Group Photo</td>
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<tr>
<td>10:10-10:40</td>
<td>Keynotes</td>
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<tr>
<td></td>
<td>Moderator: CHEN Jie, Chief Engineer, SAST</td>
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<tr>
<td>10:10-10:40</td>
<td>Keynote 1</td>
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<tr>
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<td>China’s Plan of Space Exploration Mission</td>
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<td>PEI Zhaoyu</td>
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<td>CNSA</td>
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<td>10:40-11:10</td>
<td>Keynote 2</td>
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<td>Space Exploration in France in the International and European context</td>
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<td>Jean-Pascal Le Franc</td>
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<td>Director for Programming, International and Quality, CNES</td>
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<td>11:10-11:40</td>
<td>Keynote 3</td>
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<td>New Advances in Deep Space Autonomous Celestial Velocity Measurement Navigation Theory and Technology</td>
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<td>ZHANG Wei</td>
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<td>Director, Shanghai Academy of Spaceflight Technology</td>
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<td>11:40-12:10</td>
<td>Keynote 4</td>
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<td>Hongyun Project Links the World</td>
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<td>XIANG Kailheng</td>
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<td>Chief Engineer, Second Academy of CASIC</td>
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<td>12:10-13:00</td>
<td>Lunch Break</td>
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<td>13:00-15:00</td>
<td>Keynotes</td>
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<td>Moderator: LI Shouping, Dean of School of Law, BIT</td>
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<td>13:00-13:30</td>
<td>Keynote 5</td>
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<td>The Future of China’s Commercial Space Transportation System</td>
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<td></td>
<td>LI Yu</td>
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<tr>
<td></td>
<td>Director, Committee of S&amp;T, China Academy of Launch Vehicle Technology</td>
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<td>13:30-14:00</td>
<td>Keynote 6</td>
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<td>Lean Satellites. Present And Future</td>
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<td></td>
<td>Filippo Graziani</td>
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<td>Professor, Università degli Studi di ROMA “La Sapienza”</td>
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<td>14:00-14:30</td>
<td>Keynote 7</td>
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<td>Progress and Prospect of Small-bodies Exploration</td>
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<td>HUANG Jiangchuan</td>
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<td>Chief Engineer. China Academy of Space Technology</td>
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<td>14:30-15:00</td>
<td>Keynote 8</td>
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<td>The Idea of Space Exploration for Jupiter and Outer Space</td>
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<td>WANG Chi</td>
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<td>Deputy Director, Center for Space Science and Applied Research, CAS</td>
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<td>15:00-15:20</td>
<td>Coffee &amp; Tea Break</td>
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Schedule

Nov.24 Friday

16:20-16:50  Keynotes
Moderator: Jean-Michel Contant, Secretary General, IAA

16:20-16:50  Keynote 9
How does APSCO Promote the Economic and Social Development of the Member Countries Through Space International Cooperation?
Nasir Mahmood
Deputy Secretary General, APSCO

15:20-15:50  Keynote 10
Legitimacy to Unilaterally Exploit the Natural Resources of Outer Space
LI Shouping
Dean, School of Law, Beijing Institute of Technology

15:20-16:50  Keynote 11
Community In Space: A Campaign to Establishing the Global Framework of Principles and Policies to Improve the Community to be Built In The Space Domain
Jose H. Ocasio-Christian
CEO, Caelus Partners

08:30-12:00  Technical Session1
Space System and Applications Group 1

08:30-12:00  Technical Session2
Space System and Applications Group 2

08:30-12:00  Technical Session3
Space System and Applications Group 3

08:30-12:00  Technical Session4
Space Carrier and Launch, Space Applications and International Cooperation

08:30-12:00  Technical Session5
Manned Spaceflight and Deep Space Exploration

12:00-13:00  Lunch Break

Nov.25 Saturday

09:00  Gathering (At gate of Jianguo Hotel)

09:00-11:00  Technical visit

11:00  Return

16:50-17:20  Presentation of New IAA Academician Certificates:
Introduction of work by IAA research center in 2017
Play the video of 2017 IAA Laurence Team Award
Play the video of 2017 IAA Von Karman Award
Introduction of new IAA academician
Issuing of certificate and group photo

16:00-20:30  Gala dinner

08:30-12:00  Technical Session6
Space System and Applications Group 1
Keynote Speakers

PEI Zhaoyu

PEI Zhaoyu, Professor, Deputy Director of CNSA Lunar Exploration and Space Engineering Center, Deputy Chief Designer of China Lunar Exploration Program Phase II. He has long been engaged in the system engineering design and management, participated in the lunar exploration program's planning, the overall design, coordination and implementation.

Jean-Pascal Le Franc

Jean-Pascal Le Franc first started his career at the international affairs office of CNES. He also managed relations with subsidiaries of CNES, such as Arianespace. In 1989, he joined the office of the Minister for research and technology. After a few years in the aeronautics and space insurance area, he reintegrated CNES to deal with strategy and international affairs. He was appointed deputy director for programming and international affairs in September 2014. Jean-Pascal Le Franc has an engineering degree from Ecole Centrale in Paris.

ZHANG Wei

Professor ZHANG Wei, Ph.D., doctoral supervisor, PI of NBRPC (National Basic Research Program of China, ie, 973 Program) project. He dedicated himself to research on system design and GNC technologies of spacecraft. He has invented a novel method for spacecraft navigation named “Celestial Autonomous Navigation Based on Spectrum Velocity Measurement”. He has been in charge of over 20 national-level projects including “973”/“863”projects and key research projects from CNSA. He has been awarded Special Government Allowances, two top-level National Awards of Scientific and Technological Progress and the Distinguished Youth Award (Shanghai) for Outstanding Contribution in S&T. He is also the owner of more than 20 national patents and the author of two newly published books named “Relative Motion and Time Invariant Principle” and “Celestial Navigation Theory and Method for Deep Space Exploration”.

Xiang Kaiheng

Xiang Kaiheng is a professor and doctoral supervisor. He graduated as PhD in Engineering from Beijing University of Aeronautics and Astronautics in 1999. He was involved in the research and development of major Chinese space projects such as Manned Space Flight, Second-generation Navigation, Lunar Exploration at the Fifth Academy of China Aerospace Science and Technology Corporation. He currently serves as Deputy Chief Designer of Tiankun-1 Satellite and Chief Designer of Rainbow Cloud Project at the Department of Space System Engineering, China Aerospace Science and Industry Corporation.

LU Yu

LU Yu was born in 1958, graduating from Beijing Institute of Technology with Master of Engineering. He is professor and Academician of International Academy of Astronautics (IAA). Now, he is director of Science and Technology Committee of China Academy of Launch Vehicle Technology (CALT). Besides that, he is also former president of the IAA commission 3—Space Technology and System Development of IAA, vice director of ACTA Astronautica, and director of editorial board of the journal named Missile and Space Vehicles.

Filippo Graziani

Filippo Graziani has been professor of Astrodynamics at Aerospace Engineering School of Sapienza University of Roma for thirty five years till 2012 and has been dean of the school from 2004 to 2010. He is member of the International Academy of Astronautics (IAA) and member of IAA Trustees Board. He was the team leader of the Italian University Satellites Program (UNISAT). In 2012 he founded the company GAUSS (Group of Astrodynamics for the Use of Space Systems) and he is President and CEO. He is author of more than 200 technical papers on Astrodynamics and Space Systems. He is Co-Editor of Acta Astronautica since 2009. He received the “Utkin Golden Medal” for international relationship between Russia and Italy and the “M.K.Yangel –100 years Golden Medal” for the contribution to the development of space science in the world.
HUANG Jiangchuan

Professor HUANG Jiangchuan is an expert on navigation and control of China’s lunar probe. He was deputy chief designer of Chang’e-1 probe and chief designer of Chang’e-2 probe. Now he is a standing member of the Committee on Science and Technology, chief director of small-bodies exploration missions (R&D) in China Academy of Space Technology (CAST), and vice-chairman of Chinese Society of Space Research. He has won two outstanding awards, an innovation team award and a first award of “State Scientific and Technological Progress Award”, prize for scientific and technological progress of “The Ho Leung Ho Lee foundation”. Up till now, he has published more than 30 papers.

WANG Chi

He is the professor and deputy director of the National Space Science Center (NSSC), Chinese Academy of Sciences. His major research fields include the large-scale solar wind structures in the heliosphere and the interaction of the solar wind with the magnetosphere. He is currently the Co-PI of the joint ESA-China SMILE mission, and the vice chief engineer of CE4.

Nasir Mahmood

Mr. Nasir MAHMOOD, Director-General External Relations & Legal Affairs Department in APSCO. He was the head of International Affairs Division at Pakistan National Space Agency, SUPARCO. He represented Pakistan and APSCO at many international fora including COPUOS and its Legal Sub-Committee, EU’s unsuccessful initiative on ICoC. He has participated in many international conferences and symposiums organized by APSCO with UN, International Organizations and Universities in China. Mr. MAHMOOD is Bachelor of Science, and holds ‘Master of Business Administration’ degree and a Diploma in Administrative Sciences.

LI Shouping

Professor Dr. LI Shouping is the Dean of School of Law of Beijing Institute of Technology, a corresponding academician of IAA, General Director of Space Law Center of National Space Administration and the Editor-in-chief of Chinese Yearbook of Space Law. He is one of the board members of China International Law Society and China Institute of Space Law, one of the vice president of China EU law association. He was elected as one of “Talents of New Century” and one of “Outstanding Talents in Social Science” of Beijing.

Jose H. Ocasio-Christian

Jose H. Ocasio-Christian, CEO of Caelus Partners, leading an organization focused on Space companies and investors by providing unique and lucrative investment and consulting models in every round from seed rounds to mezzanine and exits. Previous to this, He has led multiple complex and diverse organizations to achieve success in volatile, uncertain, challenging and ambiguous situations around the world in the classified and open source environments. Achieved excellence in high stake, existential situations for companies and individuals in governed and ungoverned areas, where survival and financial profits are required.
Introduction of Organizations

Supporting Organization

China National Space Administration (CNSA)

CNSA is the governmental organization of People’s Republic of China responsible for the management of space activities for civilian use and international space cooperation with other countries, and performs the corresponding governmental functions.

- Studying and formulating policies and regulations of the space industry;
- Organizing and implementing the major space projects and programs;
- Demonstrating, approving, implementing and supervising civilian space scientific research projects;
- Managing the international space exchanges and cooperation, and participating in the related international organizations and their activities on behalf of the Chinese government.

China Aerospace Science and Technology Corporation (CASC)

CASC is a large state-owned enterprise group with its own famous brands such as Shenzhou and Long March, intellectual properties, outstanding innovative capabilities, and strong core competitiveness. Having originated from the Fifth Academy of the Ministry of National Defense established on October 8, 1956 and experienced the historic evolution of the Seventh Ministry of Machinery Industry, the Ministry of Space Industry, the Ministry of Aerospace Industry, and China Aerospace Corporation, CASC was formally founded on July 1, 1999 with its headquarters in Beijing.

CASC has 8 large R&D and production complexes, including the China Academy of Launch Vehicle Technology (CALT), Academy of Aerospace Solid Propulsion Technology (AASPT), China Academy of Space Technology (CAST), Shanghai Academy of Spaceflight Technology (SAST), China-Aerospace Times Electronics Corporation (CATEC), and China Academy of Aerospace Aerodynamics (CAA) as well as a number of specialized companies such as China Great Wall Industry Corporation (CGWIC), listed companies and other units directly affiliated to it.

CASC is mainly engaged in the research, design, manufacture and launch of space systems such as launch vehicles, satellites and manned spaceships as well as strategic and tactical missiles, and also provides international commercial satellite launch service. It has the capability and experience needed to perform large system engineering tasks. Its R&D and industrial bases are mainly distributed over Beijing, Shanghai, Taijin, Xi’an, Chengdu, Inner Mongolia, Hong Kong (Shenzhen) and Hainan. By virtue of space technology, CASC pays great attention to product development in such areas as satellite applications, information technology, new materials and regenerative energy, special space technology applications, special vehicles and auto parts, and science biology, and has formed a good development pattern. Over the past decades, CASC has made outstanding contributions to the national economic and social development, and scientific and technical progress.

By the end of 2013, CASC had total assets of RMB 294.02 billion, it boasted more than 170 thousand employees in total, including more than 30 academicians of the Chinese Academy of Sciences (CAS) and the Chinese Academy of Engineering (CAE).

At present, CASC is constructing a new aerospace industrial system to accelerate the development of its businesses, covering space systems, defense systems, aerospace technology applications, and aerospace services. It has been promoting exchanges and cooperation, dedicated itself to innovation, seen pioneering and rapid development, and building itself into a leading international aerospace enterprise group; thus making new contributions to the national modernization construction and peaceful exploration of space for mankind.

China Aerospace Science & Industry Corp.

China Aerospace Science & Industry Corporation (CASIC)

As a large state-owned high-tech enterprise directly managed by the Central Government, the China Aerospace Science and Industry Corporation (CASIC) has now over 150 thousand employees, of which the professional and technical personnel account for 70% or so. It involves about 200 disciplines and professional fields, and possesses over 600 enterprises and institutions.

Sticking to the development concept of “Overall defense, overall security”, CASIC has developed a series of high-tech products in aerospace defense, information technology, equipment manufacture and intelligence industry fields by means of its technology superiority, so its strategic position, core competitiveness and social influence are greatly improved. In 2016, CASIC ranked 381st in the top 500 enterprises of the world, 91st in the top 500 enterprises of China, and 31st in the top 100 manufacture enterprises of China. CASIC has been graded A in the CEO’s performances evaluation by the State Council in each of 9 consecutive years, and received “Excellent Performance Prize” and “Technological Innovation Prize” in each of 3 consecutive terms of office.

As the largest missile weapon designer and manufacturer in China, CASIC boasts a comprehensive system for developing, researching and manufacturing air defense missile systems, cruise missile systems, solid rockets, and space products, covering land, sea, air, space and electromagnetism. Up to now, CASIC has successively developed dozens of advanced missile weapons, which contributes greatly to the modernization of China’s national defense weaponry and equipment. CASIC is the main force of China aerospace industry, and has devoted itself to build a space-ground integrated security system and support system in manned spaceflight, lunar exploration and other major national projects, featured by microwave measurement radar, y attitude control device, Space Hospital and Space Kitchen.

In recent years, pursuing the concept of “Extensive Defense and Great Security” and through the successful integration of military and civilian sectors, CASIC has turned out a series of products with military-civilian dual-purpose technology. The intelligent taxation system, security technology system and emergency rescue equipment self-developed by CASIC play an important role in maintaining the secure operation of national economy, in furnishing the security for great events such as Beijing Olympic Games, World Expo Shanghai and Asian Games Guangzhou, and in the quick actions against contingencies and natural disasters.

Advancing towards the future, CASIC will stick to the four strategies of integration of military and civilian sectors, innovation-driven development, self-building with talents, and winning out of quality. CASIC will build itself into a world first class aerospace defense corporation by 2020 with space defense as its leading industry, with information technology and equipment manufacture as its major supporting industries, and with its persistent efforts in the innovations in technology, business mode and management.
Introduction of Organizations

Hosting Organization

International Academy of Astronautics (IAA)
International Academy of Astronautics was founded in 16 August 1960, Stockholm, Sweden, by Theodore Von Karman. It is an independent non-governmental international organization recognized by the United Nations in 1996. It aims to fostering the development of astronautics for peaceful purposes. IAA recognizes individuals who have distinguished themselves in a related branch of science or technology and also provides a program through which members may contribute to international endeavors. IAA plays an active role in encouraging international cooperation in the advancement of aerospace science. IAA holds meeting every two years Meeting (every two years). Board of Trustees (meets twice a year) is consists of: President, four Vice-Presidents and twenty-eight Trustees, seven from each Section, including Basic Sciences, Engineering Sciences, Life Sciences, Social Sciences. Dr. Madhavan G. Nair replaced Prof. Edward C. Stone, USA, as current president. Vice-Presidents are Mr. Yannick d'Escahha, France; Prof. Liu Jiuyuan, China; Dr. Hiroki Matsuo, Japan, Anatoly Permenov, Russia served as General and Dr. Jean-Michel Contant, France is Secretary General.

Chinese Society of Astronautics (CSA)
CSA was founded in 1979 in Beijing, China. It is a non-government and non-profit organization of China’s space community. CSA has 179 institutional members, 23,451 individual members and 37 technical committees. The objective of CSA is to expedite the development and popularization of space science and technology. Since its foundation, CSA has actively carried out academic exchanges at home and abroad. The main tasks of CSA are:
- to organize national and international symposium, forum, conferences to promote space exchange and cooperation.
- to play an active role in the popularization of space science among young people.
- to conduct space policy research and provide consulting services to the government department.
- to edit, publish and distribute Journal of Astronautics, Space Exploration Magazine in Chinese and Journal of Advances in Aerospace Science and Technology in English, and other books, publications, conference proceedings.
CSA plays an active role in accelerating the development of space science and technology and promoting the activities in the peaceful use of outer space for the benefits of mankind.

Organizer

Shanghai Academy of Spaceflight Technology (SAST), CASC
Founded on August 1st, 1961, and located in China’s economic center and the largest industrial city, SAST is one of the key bases of China Spaceflight industry. Taking science and technology as the lead, SAST has developed for 50 years, during this period, continuous efforts have been made for speeding up the technology progress, improving the development level, making greater achievements, broadening the scope of business, developing the industry and the enhancement of comprehensive capability. The aerospace products involve the series of launch vehicles, applications satellites, manned spaceship, deep space exploration and lunar rovers. The scope of business on commercial products includes photovoltaic, automobile components, vehicle lithium batteries, natural gas transmission and distribution, mechatronic equipment, composite materials as well as import/export trade. Now, the total employee of SAST is over 20,000, among them, more than 6,000 are technical personal of different ranks including Academicians of Technology, professors and senior engineers. Under the management of SAST, there are 12 research institutes, 12 enterprises including those engaged in manufacturing commercial products and listed company. Equipped with fine advanced equipment, SAST is fully capable for design, development, manufacture and test with various means for inspection and measurement. SAST has primarily formed a comprehensive entity with complete specialty of various categories, which combines scientific research, manufacture, technology and trade as one.

Co-organizer

Shanghai Society of Astronautics (SSA)
SSA, a non-governmental and non-profit organization, founded in 1987 by scientific and technical workers, engaged in aerospace and disciplines concerned. At present, members of SSA include 61 corporations and 1700 individuals, including 10 academicians of Chinese Academy of Science and Chinese Academy of Engineering, 6 academicians of International Academy of Astronautics, 22 senior members and 254 advanced members. The 6th council consists of 54 members, including 24 executive members, and the current president is Shoulun DAI, President of SAST. The primary job of SSA is to carry out activities of aerospace and disciplines concerned, like academic communication, popularization of science and technology, policy-making consulting, continuing education, publication and so on.
Transportation

> **Pudong International Airport to Jian Guo Hotel**
Please take metro Line 2 to People’s Square Station, and interchange to metro Line 1. Get off at Xujiahui Station to exit No.2 to Jian Guo Hotel.

> **Shanghai Railway Station to Jian Guo Hotel**
At Shanghai Railway Station, please take Metro Line 1 and get off at Xujiahui Station to exit No.2 to Jian Guo Hotel.

> **Shanghai Hongqiao Railway Station to Jian Guo Hotel**
Please take metro Line 2 to People’s Square Station, and interchange to metro Line 1. Get off at Xujiahui Station to exit No.2 to Jian Guo Hotel.