

Welcome from the President of the International Council of the Aeronautical Sciences (ICAS), Professor Shinji Suzuki



On behalf of the International Council of the Aeronautical Sciences (ICAS), I welcome you to the 32nd ICAS Congress in Shanghai.

Over 60 years, ICAS has provided this pre-emi-

nent forum for the world's aeronautical engineers, researchers, scientists, and managers to present and discuss the latest developments in aeronautics. This remarkable organization was founded by Theodore von Karman and his international colleagues to promote international collaboration in aeronautics and continues to build on its impressive heritage. This Congress will be held for the second time in China since the ICAS 1992 Congress in Beijing. ICAS is grateful for the efforts of our Chinese colleagues and a high level of sponsorship from a number of companies.

The aerospace and aviation industries inherently require the integration of various disciplines to provide safety in severe flight conditions, solve environmental problems and enable economical operation. In recent years, integration with new fields such as advanced computer technology, unmanned and AI technologies in all aspects such as design, manufacturing, and operations has been required. Furthermore, new flight opportunities such as urban air mobility and super/hypersonic or space flight have been

investigated. ICAS Congresses represent unique opportunities every two years to learn and interact with the leaders in the field from more than 40 countries.

The topics addressed at ICAS Congresses are diverse and reflect the challenges and opportunities of the day. The ICAS Program Committee ensures that Congress presentations cover not only core aeronautical disciplines such as aerodynamics and performance, stability and control, materials and structures and propulsion and systems but also new fields such as air traffic management and systems, manufacturing and the supply chain, safety and security, and environment and operations. We select the plenary sessions as General Lectures which focus on the latest topics, the common topics to all fields, and the topics related to collaboration with other organizations.

It is with great pleasure that I welcome you to Shanghai. I invite you to participate actively in this historic 32nd ICAS Congress, making the most of the broad array of technical, networking, cultural opportunities and technical tours prepared for you by a dedicated team of colleagues from all over the world.

Welcome from the Chinese Society of Aeronautics and Astronautics(CSAA)

On behalf of the Chinese Aeronautics and Astronautics (CSAA), we would like to welcome all potential delegates to the 32nd Congress of the International Council of the Aeronautical Sciences (ICAS2020), to be held during September 14-18 in Shanghai, China.

With over 200 corporate and 100,000 individual members from the industry, research and education institutes as well as civil aviation, CSAA has joined ICAS since 1982. It once held the ICAS Congress in Beijing in 1992.

Over a course of nearly three decades, China has witnessed remarkable progress in aeronautics and aviation. A large number of talents including students, administrative personnel, researchers and industry workers are engaged in this field. A series of self-developed aerial vehicles like the C919, regional jet ARJ21, large civil helicopter AC313, medium-lift utility helicopter Z-20, large transport Y-20, amphibious vehicle AG 600, etc have rolled out and more are in the pipeline. The domestic aviation industry is more engaged in the world industry chain than ever through cooperative project like helicopter Z -15 and acquisition of Cirrus Industries Inc. We are more than happy to show you a very different China with a more advanced aviation industry from 30 years ago through the upcoming Congress.

Meanwhile, according to the previous data collected by ICAS, the abstract submission number and the total of delegates from China ranked right next to the hosting country for the past four Congresses in a row. Chinese talents are eager to communicate with their world peers for more academic exchange and collaboration. The ICAS 2020 will be just an opportunity for that.

Shanghai is an international and dynamic city, known as the Oriental Pearl. It's also an aviation city with facilities of manufacturing, aero-engine and airborne system research as well as



Dr. Lin Zuoming
President, CSAA



Dr. Zhang Xinguo
Vice President, CSAA
Chief Expert on System
Engineering, CAE
Chair, ICAS2020 LOC



Dr. Yao Junchen
Secretary General, CSAA
Co-chair
ICAS2020 LOC



assembly all in one. The Congress venue lies in the very heart of it with the sight of Huangpu River on the one side and the skyscrapers on the other. While the ICAS committees mainly devoting to its technical program, the Local Organizing Committee will be committed to providing you with the first-class facilities, handy assistance, diversified social activities and technical tour options. We believe from the venue, you can better explore the city, from the city you can better explore China.

Despite the COVID-19, we plan to hold the Congress as scheduled. We believe the virus will be brought under control soon with the strong actions taken by the government and support from the international community. The Congress which to be held in September shall not be affected.

We hereby cordially welcome delegates both at home and abroad to take part in the ICAS 2020 and value it as an incomparably international platform to hear and to be heard about the latest research progress and some of the world leading scientific results.

Finally we wish you can join us, finding out the ICAS 2020 a both technology and culture-loaded journey yourself.

