

THE 32nd CONGRESS OF THE INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

ICAS2021
(Hybrid)



SIGN UP NOW !

The Congress of the international Council of the Aeronautical Sciences is held every two years by ICAS and hosted by its member societies around the globe since 1958. Over 60 years, this pre-eminent forum aims to provide for the world's aeronautical engineers, researchers, scientists, and managers a platform to present and discuss the latest developments in aeronautics. 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 to learn and interact with the leaders in the field from more than 40 countries.



L.F. Azevedo Joao
President, ICAS



Mavris Dimitri
Chair Programme Committee, ICAS



Suzuki Shinji
Past President, ICAS

Welcome message from CSAA

This Congress will be held for the second time in China since the ICAS 1992 Congress in Beijing. ICAS 2021 has received nearly 1200 paper abstracts, hitting a record high in ICAS history. There will be more than 20 invited lectures and over 600 technical presentations in over 140 sessions, addressing various topics in aviation and aeronautics.

Its highlight lies in the China Session, in which 6-8 leading experts will summarize the advancement of UAS, ATM, Helicopter, smart structure, etc. to provide worldwide delegates with a chance to overview the dramatic progress China has made over the past three decades.

Given the COVID-19 situation, the ICAS 2021 will go hybrid. We are ready to welcome domestic delegates in Shanghai and all overseas delegates online through ZOOM and live-streaming. The congress will witness 600-800 participants around the globe.

Come and join us now.



Dr. Zuoming Lin
President, CSAA



Dr. Xinguo Zhang
Vice President, CSAA



Dr. Junchen Yao
Secretary General, CSAA

2021 SEP. 6-10
SHANGHAI, CHINA

ICAS 2021 HIGHLIGHTS



BUAA
Prof. Yingxun Wang



AMPAIR
Cory Combs



NCAA
Prof. Pinqi Xia



DLR
Björn Nagel



COMAC
Mr. Yong Chen

General Lectures

ICAS Daniel & Florence Guggenheim Memorial Lecture	
ICAS Lecture for Innovation in Aeronautics - Electrification - The third revolution in aviation	Corey Combs, USA
3-Trends in Aircraft Propulsion: Reflections on ISABE	Ric Parker, President ISABE
4-Virtual Aircraft Technology Integration Platform - Results of DLR's Project VicToria	Björn Nagel, DLR
5-IFAR - Zero emissions in 2050	Chernyshev, Yimer, Peters, Henke
ICAS von Karman Lecture - Active Flow-, Loads- and Noise Control on Next Generation Wing (AFLoNext)	M.Wahlich
Skills and Technologies of Future	Cory Combs , Liping Jiang , Takeshi Ito

China Session

Mr. Yong Chen, Chief Designer of ARJ21 Commercial Aircraft Corporation of China, Ltd.(COMAC)

Civil Aviation Administration of China (CAAC)

Aero Engine Corporation of China(AECC)

Shape Morphing Smart Structures: Mechanics, Materials and Applications	Prof. Jinsong Leng, Harbin Institute of Technology(HIT)
Development Opportunities and Challenges of Civil UAS	Prof. Yingxun Wang, Beihang University(BUAA)
An Overview of Helicopter Development in China and Some New Helicopter Technologies	Prof. Pinqi Xia, Nanjing University of Aeronautics and Astronautics(NUAA)

Invited Sessions

Aviation and Aorld Wildfiere
ISABE 1
AFLoNext
10 years of IFAR
ISABE 2
Education and Industry Processes
Global Collaborative Digital Integration in Aviation / IFAR-X challenge
Digital Pioneering - Where will MDO, MBSE, Digital Twins and AI bring engineering in 20 years?

For detailed technical program:

