

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 400 technical presentations in over 100 sessions, addressing various topics in aviation and aeronautics.

Its highlights lie in the China Session, in which 6-8 leading experts will summarize the advancement of civil aircraft, engine, transportation, UAS, ATM, Helicopter and smart structure 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 around 600 participants around the globe.



Dr. Zuoming Lin
President, CSAA



Dr. Xinguo Zhang
Vice President of CSAA
ICAS2021 LOC Chair



Dr. Junchen Yao
Secretary General, CSAA

2021 SEP. 6-10
SHANGHAI, CHINA

General Lectures



Digital Engineering
Transformation and
Innovation

Xinguo Zhang
Chief Scientist of Chinese
Aeronautical
Establishment (CAE)
Distinguished Professor
of Tsinghua University



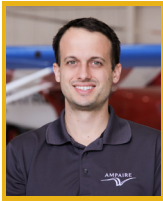
Project Clean Sky

Axel Krein
Excutive Director
of Clean Sky



Skills and Technologies
of Future

Cory Combs (Ampaire)
Liping Jiang (COMAC)
Takeshi Ito (JAXA)



ICAS Lecture For
Innovation in
Aeronautics -
Electrification
The Third Revolution
in Aviation

Cory Combs
Co-founder
Ampaire



Trends in
Aircraft Propulsion:
Reflections on Isabe

Ric Parker
President ISABE



Virtual Aircraft
Technology Integration
Platform - Results
of DIR's Project
Victoria

Stefan Görtz



IFAR Perspective on
Sustainable
Aviation - (How) Can We
Achieve Zero Emission
Aviation?

Sergey Chernyshev
Rolf Henke
Sun Xiasheng
Michel Peters, Bob Pearce
Ibrahim Yime



Active Flow Loads
And Noise Control
on Next Generation
Wing (AFLoNext)

M. Wahlich

China Session



Smart Civil
Aviation
Transportation
System

Shijun Yin
Chief Engineer
Civil Aviation
Administration of
China (CAAC)



Flight Test on
The Icing of
Civil Aircraft

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



Current Progress and
Future Prospects of Chinese
Commercial Aircraft Engine
Development

Chi Shao
Deputy General Manager
of AECC Commercial
Aircraft Engine Co., Ltd.



Development
Opportunities and
Challenges of Civil
UAS

Yingxun Wang
President of Beihang
Unmanned System
Research Institute(BUAA)



Shape Morphing
Smart Structures: Mechanics
Materials and Applications

Jinsong Leng
Cheung
Kong Chair Professor,
Harbin Institute of
Technology (HIT)



An Overview
of Helicopter
Development in China
and Some New
Helicopter Technologies

Pinqi Xia
Nanjing University of
Aeronautics and
Astronautics (NUAA)

Sino-French Session



Towards Agile Systems
Engineering: An Iterative
& Collaborative Approach
For Complex Systems
Development

Krob Daniel
President, CESAMES



Model Based Design
and Practice For
Avionics System

Lei Gao
Vice Director
China Aeronautical Radio
Electronics Research
Institute (CARERI)



Deploy System
Engineering Methods
in Airborne Guidance
Navigation Control Domain

Fangfang Wu
Deputy Chief Engineer
AVIC Xi'an Flight Automatic
Control Research
Institute(FACRI)

For detailed technical program:

