





Covering the world of Aeronautics





MISSION OBJECTIVE HISTORY ORGANISATION

The International Council of Aeronautical Sciences intends to provide regularly scheduled events and publications that enable a better understanding of engineering science and practice and an improved level of cooperation among aeronautical engineering professionals from around the world



MISSION OBJECTIVE HISTORY ORGANISATION STRATEGIC

- Facilitate the exchange of ideas, information, and understanding about the body of aeronautics knowledge among the *international* community so that important research can proceed rapidly
- Expose the *international* research community to challenges and issues through lectures by leading experts in aeronautics and its technologies
- Engage young people in the global aeronautical community through special events and prizes
- Create a vibrant *international* network that produces increased understanding, appreciation, and tolerance among participants



MISSION OBJECTIVE HISTORY ORGANISATION OPERATIONAL

- Implement our objectives through the involvement of appointed representatives of our Member Societies and the valued advice and counsel of our Associated Members
- Provide a biennial Congress to present useful, high quality work from world-wide research and technology organizations to all interested engineers and scientists
- Provide articulate experts to challenge our global community on issues of specific interest to aeronautics



MISSION OBJECTIVE HISTORY ORGANISATION OPERATIONAL

- Provide supporting sessions and papers to meetings of Member Societies and Associated Members upon request
- Provide global recognition for key leaders and researchers in aeronautics through several prestigious awards
- Provide a global platform for young engineers and students to begin to develop an international network of colleagues



MISSION OBJECTIVE HISTORY ORGANISATION

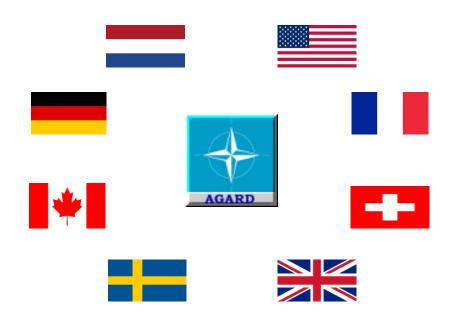
In 1957 Theodore von Karman founded ICAS as a non-government notfor-profit scientific organization to encourage the free international exchange of information on aeronautical research and technology



Theodore van Karman ICAS President 1957-1963



MISSION OBJECTIVE HISTORY ORGANISATION





MISSION OBJECTIVE HISTORY ORGANISATION

CONGRESS HISTORY



MISSION OBJECTIVE HISTORY ORGANISATION WORKSHOP/ETF HISTORY

2005 Greece – Mykonos: Towards a global vision for Aviation Safety and Security

2007 Spain – Seville: Advanced Materials & Manufacturing: Certification & Operational Challenge

2009 The Netherlands-Amsterdam: UAV Airworthiness – certification and access to the airspace

2011 Sweden–Stockholm: *Advanced Materials&Manufacturing-Certification&Operational Challenges*

2013 South Africa-Capetown: The More Electrical Aircraft : Achievements&perspectives for the future

2015 Poland –Krakow: Complex Systems Integration in Aeronautics

2017 Switzerland – Winterthur: Intelligent and Autonomous Technologies in Aeronautics

2019 Australia-Melbourne: Digitalization and Industry 4.0 for Aerospace



MISSION OBJECTIVE HISTORY ORGANISATION

ICAS Organisation



ICAS Main Bodies

- ICAS Council
- ICAS Executive Committee (EC)
- ICAS Programme Committee (PC)



Regulatory Documents

- ICAS Statutes
- ICAS Internal Regulations



MISSION OBJECTIVE HISTORY ORGANISATION ICAS MAIN BODIES



ICAS Council

- "ICAS General Assembly"
- Representation of the Members
- Members of the ICAS EC can not be representatives in the Council
- ICAS President is Chair of the Council Meeting
- Council Meetings are held at the Congress



MISSION OBJECTIVE HISTORY ORGANISATION ICAS MAIN BODIES



ICAS Executive Committee (EC)

- "ICAS Management"
- Appointed by the Council
- Voted for a two-year-cycle
- Meet at least twice a year



MISSION OBJECTIVE HISTORY ORGANISATION ICAS MAIN BODIES



ICAS Executive Committee (EC)

- Five Officers:
 - President
 - Past President
 - Treasurer
 - Chair of the Programme Committee
 - Executive Secretary
- Chair of the Honorary Fellows Advisory Group
- Plus not more than eight additional members



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Current ICAS Executive Committee (EC)











- President: Shinji Suzuki, Japan
- Chair Programme Committee: Joao Azevedo, Brazil



Treasurer: Gunnar Holmberg, Sweden



Past President: Susan Ying, U.S.A



Executive Secretary: Axel Probst, Germany



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Current ICAS Executive Committee (EC)













- Chair of the Honorary Fellows Advisory Group: Murray Scott
- Chair of the Programme Planning Sub-Committee: Chris Atkin





Chair of the Members & External Relations SC: Michel Peters



Xin Guo Zhang Members at Large:

Zdobyslav Goraj

Sebastien Remy

Sergej Chernyshev

Roland Gerhards



Associated to ICAS EC 2020: Yu Ce





MISSION OBJECTIVE HISTORY ORGANISATION ICAS MAIN BODIES



ICAS Programme Committee (PC)

- "ICAS Work-Committee"
- Meets every year
- Members are chosen by qualification (industry & academia)



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ICAS MAIN BODIES

ICAS Programme Committee (PC)

- G. A. **Amiryants**, Russia
- K. **Anderson**, Australia
- C. **Atkin**, United Kingdom
- J.L.F. **Azevedo**, Brazil
- S. **Bagassi**, Italy
- J. **Bayandor**, Australia
- E. Belo, Brazil
- E. **Bigarella**, Brazil
- C. Bil, Australia
- A. Blom, Sweden
- Ch. **Breitsamter**,
- Germany
- Y. C. Chen, China
- F. Collier, U.S.A.
- S. **Conway**, U.S.A.
- R. **Del Rosario**, U.S.A.
- H. Djojodihardjo,
- Indonesia
- B. Fredriksson, Sweden
- Y. **Fu**, China
- S. Fu, China
- Z. Gao, China

- Y. Kim, Korea
- B. Kimmel, U.S.A.
- P. Krus, Sweden
- L. **Manfriani**, Switzerland
- C. Mari, France
- D. Mavris, U.S.A.
- J. **Melkert**, The Netherlands
- A. Mirzoyan, Russia
- J. Monk, South Africa
- D. **Mueller-Wiesner**, Germany
- B. Nagel, Germany
- J. Nairus, U.S.A.
- M. **Peters**, The Netherlands
- O. Rand, Israel
- B. Rasuo, Serbia
- K. Rein-Weston,
- U.S.A.
- S. **Remy**, France

- R. **Gerhards**, Germany
- T. Goetzendorf-Grab.,
- Poland
- Z. Goraj, Poland
- E. **Gowree**, United
- Kingdom
- J.H. Han, Korea
- M. **Harigae**, Japan
- F. **Haselbach**, United Kingdom
- C. **Hermans**, The
- Netherlands
- G. **Holmberg**, Sweden
- T. Ikeda, Japan
- A. **Isikveren**, France
- E. Itoh, Japan
- L. **Jiang**, China
- J. **Juracka**, Czech
- Republic
- M. Kanerva, Finnland

- S. Ricci, Italy
- K. **Rinoie**, Japan
- M. Scott, Australia
- P. **Stezycki**, Poland
- B. **Stoufflet**, France
- E. **Stumpf**, Germany
- S. **Suzuki**, Japan
- M. **Tavares**, Brazil
- H. Toebben, Germany
- P. Vijgen, U.S.A.
- N. Voevodenko,
- Russia
- T. Wan, Taiwan, China
- I. Yimer, Canada
- S. Ying, U.S.A.
- X. Zhang, China
- Y.Z. **Zhang**, China



SION OBJECTIVE HISTORY **ORGANISATION** ICAS MAIN BODIES

ICAS Permanent Secretariat

ICAS Executive Secretary (currently Axel Probst)



ICAS Coordinator (currently Bodo Heinrichs)



Always hosted by an ICAS Member (currently Germany DGLR)





MISSION OBJECTIVE HISTORY

ORGANISATION REGULATORY DOCUMENTS

ICAS Statutes



ICAS Internal Regulations



STATUTES

of the Association

INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

Brisbane, September 26, 2012



ICAS Internal Regulations

Related to the ICAS Statutes adopted in 2012

Internal regulations modified Sept 2014 (section IR(C)-01) due to Council decision about new membership fee structure.



MISSION OBJECTIVE HISTORY ORGANISATION SUB COMMITTEES

- ICAS Honors & Awards Sub-Committee Chair: ICAS Past President
- ICAS Finance Sub-Committee Chair: ICAS Treasurer
- ICAS Strategic Planning Sub-Committee (SPSC)
 Chair: individually chosen from EC
- ICAS Membership & External Relationship Sub-Committee (MERSC) Chair: individually chosen from EC
- ICAS Student Awards Selection Sub-Committee Chair: individually chosen from EC
- ICAS Young Professionals Sub-Committee Chair: individually chosen from EC



MISSION OBJECTIVE HISTORY ORGANISATION



























associação brasileira de engenharia e ciências mecânicas

























ORGANISATION















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MISSION OBJECTIVE HISTORY ORGANISATION COOPERATIONS









MISSION OBJECTIVE HISTORY ORGANISATION CYCLE TO A CONGRESS

Odd year (e.g. 2019)

- February: Call for Papers
- April: Proposals for Congress Venues +5 years (e.g. 2022)
- May: EC Meeting
- September: PC Meeting
- November: Acceptance of authors
- December: Agreement signed

Even year (e.g. 2020)

- February: Letters to invited authors
- March: Release of the Preliminary Programme
- May: EC Meeting
- June: Paper Review
- September: Congress

Decision of venue of the Congress: 4 years prior (2018 for 2022)



MISSION OBJECTIVE HISTORY ORGANISATION CYCLE TO A CONGRESS





MISSION OBJECTIVE HISTORY ORGANISATION ICAS TOPIC AREAS

Aircraft and System Integration

Aerodynamics – CFD Methods and Validation

Experimental Aerodynamics

Basic Fluid Dynamics and Flow Control

Applied Aerodynamics

Materials issues, Fatigue and Damage tolerance

Structural Analysis and Design, Structural Dynamics, Aeroelasticity

Propulsion and Energy

Flight Dynamic and Control (Control and Modeling)

Flight Dynamics and Control (UAV & Flight Experiment related)

Systems, Subsystems and Equipment

Manufacturing and Supply Chain Management

Air Transport System Efficiency

Safety and Security

Challenge of the Environment

Operations and Sustainment



hission objective history organisation **ICAS AWARDS**

ICAS Daniel and Florence Guggenheim Award





ICAS von Karman Award for International Cooperation in Aeronautics







ICAS Award for Innovation in Aeronautics















ORGANISATION ICAS AWARDS

ICAS Maurice Roy Award





ICAS John J. Green Award







ICAS IFAR Award





ICAS John Mc Carthy Student Award





















SSION OBJECTIVE HISTORY ORGANISATION **ICAS AWARDS**

ICAS Honorary Fellowship



ICAS Award for Distinguished Service to ICAS





MISSION OBJECTIVE HISTORY ORGANISATION

ICAS AWARDS

ICAS Honorary Fellowship



F.J. Sterk	NL	1998	J. Hefner	US	2008
C.D. McCarthy	US	2000	F. Abbink	NL	2010
J. E. Green	UK	2002	B. Fredriksson	SE	2010
B.J. Laschka	DE	2002	R. Bengelink	US	2012
R.H. Petersen	US	2002	I. Poll	UK	2012
R.V. Harris	US	2002	A. Gustafsson	SE	2012
C. Dousset	FR	2002	D. Müller Wiesner	DE	2014
JP. Marec	FR	2004	M. Scott	AU	2016
S. Kobayakawa	JP	2006	C. Mari	FR	2018
G.M. Carlomagno	IT	2008			



MISSION OBJECTIVE HISTORY ORGANISATION

THE VALUE OF ICAS

How do we know the latest issues and hot topics in global aeronautical sciences?

Who do we network to gain knowledge of the state-of-the-art developments?

What are the latest and greatest innovations and achievements by the aeronautical communities including industry, academia, and research laboratries?



MISSION OBJECTIVE HISTORY ORGANISATION

THE VALUE OF ICAS

ICAS provides a *global* support network to each of its Member and Associate Members. Through these societies it provides access to leading members of the world-wide aeronautical engineering community

Through its *global* meetings and programs ICAS provides an opportunity for students and young engineers to develop an international network of colleagues and peers

ICAS provides significant coverage of the financial risk for the local society involved in the sponsorship of a biennial Congress



MISSION OBJECTIVE HISTORY ORGANISATION

ICAS currently serves as the only world-wide supernational organization to representative aeronautical engineering professional societies and associated organizations and their members in 32 countries





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Thank you for your attention

