THE INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES
Covering the world of Aeronautics
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.
• 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
INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

• 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
• 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
In 1957 Theodore von Karman founded ICAS as a non-government not-for-profit scientific organization to encourage the free international exchange of information on aeronautical research and technology.

Theodore van Karman
ICAS President 1957-1963
INTERNATIONAL COUNCIL
OF THE AERONAUTICAL SCIENCES

MISSION
OBJECTIVE
HISTORY
ORGANISATION

Covering the world of Aeronautics
1958  Spain - Madrid
1960  Switzerland - Zurich
1962  Sweden - Stockholm
1964  France - Paris
1966  United Kingdom - London
1968  Germany - Munich
1970  Italy - Rome
1972  Netherlands - Amsterdam
1974  Israel - Haifa
1976  Canada - Ottawa
1978  Portugal - Lisbon
1980  Germany - Munich
1982  United States - Seattle
1984  France - Toulouse
1986  United Kingdom - London
1988  Israel - Jerusalem
1990  Sweden - Stockholm
1992  China - Beijing
1994  United States - Anaheim
1996  Italy - Sorrento
1998  Australia - Melbourne
2000  United Kingdom - Harrogate
2002  Canada - Toronto
2004  Japan - Yokohama
2006  Germany - Hamburg
2008  United States - Anchorage
2010  France - Nice
2012  Australia - Brisbane
2014  Russia - St. Petersburg
2016  Korea - Daejeon
2018  Brazil - Belo Horizonte
2020  China - Shanghai
2022  Sweden - Stockholm
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
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

Covering the world of Aeronautics
ICAS Organisation

**ICAS Main Bodies**
- ICAS Council
- ICAS Executive Committee (EC)
- ICAS Programme Committee (PC)

**Regulatory Documents**
- ICAS Statutes
- ICAS Internal Regulations
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
- Council Meetings are held at the Congress
ICAS Executive Committee (EC)

- “ICAS Management”
- Appointed by the Council
- Voted for a two-year-cycle
- Meet at least twice a year
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
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 🇩🇪
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 Strategic Planning Sub-Committee: Dimitri Mavris
- Chair of the Members & External Relations SC: Michel Peters
- Members at Large: Xin Guo Zhang, Zdobyslav Goraj, Sebastien Remy, Sergej Chernyshev, Roland Gerhards
- Associated to ICAS EC 2020: Yu Ce
ICAS Programme Committee (PC)

• “ICAS Work-Committee”
• Meets every year
• Members are chosen by qualification (industry & academia)
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, Finland
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

Currently 68 members, as of 25.10.2018
ICAS Permanent Secretariat

- ICAS Executive Secretary  (currently Axel Probst)
- ICAS Coordinator  (currently Bodo Heinrichs)
- Always hosted by an ICAS Member (currently Germany DGLR)
• 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
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)
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
ICAS Daniel and Florence Guggenheim Award

ICAS von Karman Award for International Cooperation in Aeronautics

ICAS Award for Innovation in Aeronautics

Explanation: The Award includes: Lecture - Certificate - Medal - Money
ICAS Maurice Roy Award

ICAS John J. Green Award

ICAS IFAR Award

ICAS John Mc Carthy Student Award

Explanation: The Award includes: Lecture - Certificate - Medal - Money
ICAS Honorary Fellowship

ICAS Award for Distinguished Service to ICAS

Explanation: The Award includes:
- Lecture
- Certificate
- Medal
- Money
<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Year</th>
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<tr>
<td>F.J. Sterk</td>
<td>NL</td>
<td>1998</td>
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<td>C.D. McCarthy</td>
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<td>J. E. Green</td>
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<td>R.V. Harris</td>
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<td>2002</td>
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<td>C. Dousset</td>
<td>FR</td>
<td>2002</td>
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<td>J.-P. Marec</td>
<td>FR</td>
<td>2004</td>
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<td>S. Kobayakawa</td>
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<td>2006</td>
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<td>G.M. Carlomagno</td>
<td>IT</td>
<td>2008</td>
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<td>J. Hefner</td>
<td>US</td>
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<td>F. Abbink</td>
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<td>B. Fredriksson</td>
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<td>R. Bengelink</td>
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<td>I. Poll</td>
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<td>A. Gustafsson</td>
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<td>D. Müller Wiesner</td>
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<td>M. Scott</td>
<td>AU</td>
<td>2016</td>
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<tr>
<td>C. Mari</td>
<td>FR</td>
<td>2018</td>
</tr>
</tbody>
</table>
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 laboratories?
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.
ICAS currently serves as the only world-wide supranational organization to represent aeronautical engineering professional societies and associated organizations and their members in 32 countries.
Thank you for your attention