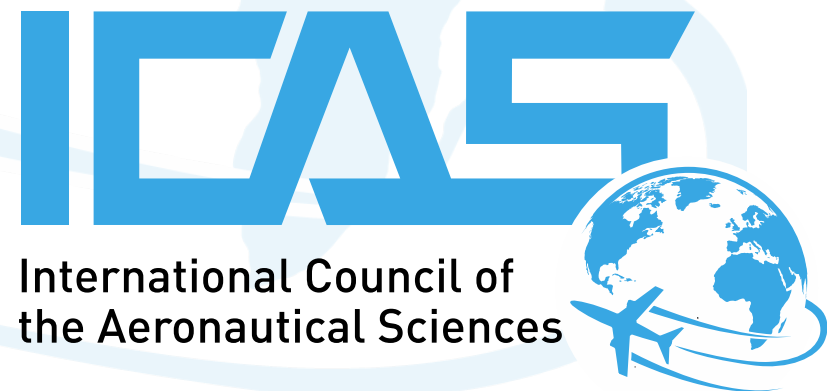


ICAS: Bringing Thought Leaders Together

Dimitri Mavris, President
12 September 2023



- The origins of ICAS started after World War II and at the beginning of the Cold War with individuals who shared a commitment to fostering a better understanding among nations of the world



Theodore von Kármán

*Mathematician, engineer,
physicist, aeronautical
research leader*



Harry Guggenheim

*Industrialist, philanthropist,
diplomat, and aviator*

- In the initial meeting to discuss forming an international congress, von Kármán suggested that representatives of aeronautical societies in nine countries be invited to consider the possibility.
- From the start, ICAS was a collaborative and inclusive endeavor, even at a time of political and military tension between countries of NATO and the Warsaw pact.
- ICAS was formed as an organization in 1957 to plan the first Congress in 1958 in Madrid.

ICAS Today: Covering the World of Aeronautics



Global Network: Member Societies



Covering the world of Aeronautics

Global Network: Associate Members



Covering the world of Aeronautics

- ICAS currently serves as the only world-wide supernational organization to represent aeronautical engineering professional societies and associated organizations and their members in 32 countries
- ICAS provides:
 - The forum for thought leaders in aeronautics through its biennial Congress & Emerging Technologies Forum
 - A global network through member societies and associate members
 - Advancement through collaboration with like-minded international organizations
 - Recognition through prestigious awards

- ICAS holds a biennial congress in even years in September
 - Event brings together the global aeronautical community
 - Covers both programmatic and technical topics and highlights key opportunities and challenges for the aviation industry
 - Member Societies bid to host the Congress in their countries
- In odd years, the ICAS Programme Committee that plans the Congress technical program meets in other member countries
 - In conjunction with the PC meeting, ICAS holds its **Emerging Technology Forum**, which gathers experts from all over the world in the field to exchange views and to identify further areas of potential cooperation in specific emerging areas

ICAS Congresses



1958	Spain - Madrid	1992	China - Beijing
1960	Switzerland - Zurich	1994	United States - Anaheim
1962	Sweden - Stockholm	1996	Italy - Sorrento
1964	France - Paris	1998	Australia - Melbourne
1966	United Kingdom - London	2000	United Kingdom - Harrogate
1968	Germany - Munich	2002	Canada - Toronto
1970	Italy - Rome	2004	Japan - Yokohama
1972	The Netherlands - Amsterdam	2006	Germany - Hamburg
1974	Israel - Haifa	2008	United States - Anchorage
1976	Canada - Ottawa	2010	France - Nice
1978	Portugal - Lisbon	2012	Australia - Brisbane
1980	Germany - Munich	2014	Russia - St. Petersburg
1982	United States - Seattle	2016	Korea - Daejeon
1984	France - Toulouse	2018	Brazil - Belo Horizonte
1986	United Kingdom - London	2021	China - Shanghai
1988	Israel - Jerusalem	2022	Sweden - Stockholm
1990	Sweden - Stockholm	2024	<i>Italy - Florence</i>

ICAS Workshops/Emerging Technologies Forums



- 2003 Italy – Sorrento**
Towards a Global Vision for Aeronautics
- 2005 Greece – Mykonos**
Towards a global vision for Aviation Safety and Security
- 2007 Spain – Seville**
UAV Airworthiness – certification and access to the airspace
- 2009 The Netherlands – Amsterdam**
Aviation and Environment
- 2011 Sweden – Stockholm**
Advanced materials & manufacturing – Certification & Operational Challenges
- 2013 South Africa – Cape Town**
The More Electrical Aircraft: Achievements and perspectives for the future
- 2015 Poland – Krakow**
Complex Systems Integration in Aeronautics
- 2017 Switzerland – Winterthur**
Intelligent and Autonomous Technologies in Aeronautics
- 2019 Australia – Melbourne**
Digital Transformation in Aerospace
- 2023 Japan - Kyoto**
Future Air Mobility – Barriers and Enablers

Objectives for ICAS Events

- Present useful, high-quality work from world-wide research and technology organizations to all interested engineers and scientists
- 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 global research community to challenges and issues through lectures by leading experts in aeronautics and related technologies
- Provide a global platform for early career professional and students to begin to develop an international network of colleagues
- Create a vibrant international network that produces increased understanding, appreciation, and tolerance among participants

- While ICAS has adhered to the original guiding principles, the organization has evolved and grown since 1957 as the aviation industry has expanded and technology has advanced.
- We are continually looking to enhance our activities and the value we provide to our members and the larger global aeronautical community.
- Events like this ETF underscore the role of ICAS in advancing the state of the art of aeronautics.
- As it has done since its foundation, ICAS addresses the critical issues facing the aviation industry.
- **Increasingly, we want our network to prompt new research activities and collaborations**

- The catchphrase for this ETF is “Barriers and Enablers”
- The aim of ICAS is to shine a light on this exciting, emerging area of aeronautics
 - To bring a diverse set of experts together
 - To clarify areas where further R&D is needed
 - To identify technology spin-offs for other applications
 - To assist in network-building for these purposes
 - To identify skills needed in this sector
 - To share the developments in this exciting sector with the broadest community possible
- As a global forum for our community, ICAS is the best place to address and resolve these issues
- Let’s work together to chart a course for the future!