

## ICAS President Summary Report for the Period 2023 to 2024

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When I started my term as ICAS president in January 2023, I committed to focus on two strategic areas: *membership engagement and expansion* and *visibility of ICAS in the global aeronautics industry*. I am happy to report that over the past two years, ICAS has made strides in these areas. I am confident that these trends will continue based on the foundations we have laid in our activities, outreach, and relationships.

### **Membership engagement and expansion**

Our recent membership strategic thrust has been three-fold: 1) increase the value of ICAS for its members, 2) re-engage inactive members, and 3) expand membership in countries with emerging aerospace sectors that historically have not been involved in ICAS.

We have held summits with leaders from our society members at the last two Congresses to engage with them, encourage them to interact, and hear their feedback about the value they receive from ICAS and how we can improve it. We have worked with our society members to ensure they have active engagement with the ICAS Council and identify appropriate representatives from their organizations on our various committees, specifically the Programme Committee.

As we grow the number of associate members, we are looking for ways to provide them value. A specific example is our new Global Aeronautics Academic Network initiative. This network will foster collaboration, innovation, and excellence in aeronautical education and research across the globe. The value to university members will include shared resources for accreditation (e.g., curriculum), proposal evaluations, promotion package evaluations, encouragement/mentorship of assistant professors, and guidance and experience in international cooperation and protocol through ICAS activities. We have received positive feedback from universities we discussed this initiative with during ICAS 2024 and as we engage now associate members.

During my presidency, I have engaged with a number of societies and other aeronautical organizations. I am happy to report that we have recently welcomed new society members from Chile, Greece, Malaysia, and Bulgaria. We have started dialogues with societies in Mexico, Singapore, New Zealand, Morocco, Pakistan, and Egypt. New associate members from Greece, Australia, Chile and Singapore have also joined in the last year.



ICAS now has 30 active member societies and 34 associate members, and we expect these numbers will continue to grow.

### ***Visibility of ICAS in the global aeronautics industry***

ICAS has continued to grow the quality and impact of its Congress and Emerging Technology Forum. ICAS 2022 in Stockholm was the first Congress after COVID and helped us get back on track with in-person events, setting a high bar for future Congresses.

We had a very successful Emerging Technology Forum (ETF) in September 2023 in Kyoto, Japan. The forum focused on Future Air Mobility – Barriers and Enablers and included two days of presentations from experts from around the world. Presentations addressed topics ranging from technological and operational aspects to commercial, infrastructure, and community considerations. While we were in Japan, we had the opportunity to meet with Japan industry and to strengthen the engagement with the aeronautical community in that country.



ICAS 2024 in Florence, Italy was our biggest Congress to date, with over 1,200 delegates, including 350 students, and 83 accompanying persons. The technical program featured 848 papers from 41 countries.

The program was representative of the latest discoveries and developments from the global aeronautical research and technology community, and it was carefully assembled by the ICAS Programme Committee, under the leadership of its chair Prof. Chris Atkin of the Royal Aeronautical Society. The Programme Committee ensured Congress sessions were deconflicted and introduced the concept of diagonal tracks with themes around Sustainability, Liquid Hydrogen, AAM, and AI, among others. In addition to the paper presentations, the Programme Committee and Honors & Awards Committee organized several exciting award and keynote lectures including:

- From cloud computing to multidomain operation in Aeronautics (ICAS Daniel & Florence Guggenheim Memorial Lecture)
  - Roberto Cingolani, Chief Executive Officer Leonardo

- Air Traffic Management as a key for sustainable aviation (IFAR Panel)
  - Panelists: Bruno Sainjon, ONERA FR, Antonio Blandini, CIRA IT, Markus Fischer, DLR GE, Robert A. Pearce, NASA USA, Reginald Tan, A\*STAR SIN, Michel Peters, NLR NL
- Airbus Digital Design Manufacturing and Services (DDMS) - the digital transformation program enabling Airbus to pioneer sustainable aerospace for a safe and united world
  - Marco Ferrogali, VP Head of Modelling and Simulation – MBSE
- Sustainability and future mobility
  - Jim Hileman, Vice President and Chief Engineer of Sustainability and Future Mobility, Boeing
- Ongoing Innovation at Reaction Engines (ICAS Lecture for Innovation in Aeronautics)
  - Dr. Helen Webber
- ISABE and the runway towards sustainable aviation (ICAS ISABE Lecture)
  - Frank Haselbach, Senior VP Propulsion Engineering, Airbus
- Aviation Transformations: Research for the future of flight
  - Robert Pearce, Associate Administrator for ARMD, NASA
- The Aeroelastic Tailoring Project (ICAS von Karman Award Lecture)
  - Pedro Cabral, Embraer

Recognition of our colleagues in the aeronautical industry is a critical part of ICAS and the Congress. Awards presented during ICAS 2024 reflected the best and brightest in the community:

- Daniel and Florence Guggenheim Award: Roberto Cingolani (Leonardo)
- von Karman Award for International Cooperation in Aeronautics: The Aeroelastic Tailoring Project (Embraer)
- Award for Innovation in Aeronautics: Helen Webber (Reaction Engines)
- Maurice Roy Medal: Tim Murphy (ICAO)
- John J. Green Award: Alfonso Pagani
- ICAS – IFAR Award: Felix Weiss
- John McCarthy Student Awards: Hannah Hajdik (US), Shabnam Kiasat (Italy); Honorable Mention: Renan Silva (Brazil)
- Award for Distinguished Service to ICAS: Kenichi Rinoie, Japan; Anders Blom, Sweden; Anders Gustafsson, Sweden; Sebastien Remy, France
- ICAS Honorary Fellow: Joao Azevedo, Brazil

A core part of ICAS' outreach strategy is to leverage opportunities to meet with the aeronautics industry in the various locations where ICAS activities occur and other industry events. Recently, this has been closely tied to our membership engagement strategy, which has led to some great outcomes.

As part of its effort to enhance its strategic relationships, ICAS has recently renewed its MOUs with some of its partner societies, including:

- International Forum for Aviation Research (IFAR)
- International Society for Air Breathing Engines (ISABE)
- European Aeronautics Science Network (EASN)
- Council of European Aerospace Societies (CEAS)
- Clean Aviation Joint Undertaking (CAJU)

It was my honor as ICAS president to make keynote presentations at recent IFAR, ISABE, and EASN events.



One of the strengths of the ICAS governance model is the provision for continuity and development of its leadership. ICAS strives to have seamless transitions between its presidents. I was extremely lucky to follow Dr. Joao Azevedo of Brazil in this role. And as I step down, I know ICAS will be in good hands with our new president, Dr. Chris Atkin. I am confident he will continue to advance the ICAS mission and ensure the organization remains relevant to its members and the global aeronautical community.

It has been a great honor to serve as the ICAS President. I enjoyed working with you and thank you all for your support and participation. I look forward to continuing my active involvement as the Past President, and will look for ways to contribute to the advancement of ICAS's mission, especially through membership engagement and honors and awards. I look forward to seeing how ICAS evolves in the future!