

## President's report for year 2024

This has been my fourth term as CEAS President. It was a privilege and a pleasure to act as CEAS President for four terms, working with all the persons involved in the CEAS Board of Trustees, in the CEAS Journals and in the CEAS Technical Committees. It is always great to work with persons that devote their time and effort for the benefit of the community and not for personal interest. I truly believe that this will continue, in support of the incoming new CEAS President, Cornelia Hillenherms.

This year has seen CEAS bringing forward some initiatives approved during 2023, in particular the assignment of DOIs to conference papers and bringing fully operational the CEAS repository for all CEAS conferences, and supporting several thematic conferences organised by the CEAS Technical Committees. New procedures for the nomination of the CEAS President have also been decided and adopted, as reported in the "CEAS AT WORK" section of this report.

Very sadly, the year ended with the premature death of Jean-Pierre Sanfourche, editor in chief of the Aerospace Europe Bulletin. The CEAS Board of Trustees values the experience that Jean-Pierre has brought to CEAS and will work hard to continue the endeavours that Jean-Pierre started and carried forward with passion, dedication and great enthusiasm. He will not be forgotten

## CONFERENCES

### HiSST 2024

The 3<sup>rd</sup> HiSST Conference was held on the 14<sup>th</sup> – 19<sup>th</sup> of April in Busan, Korea. The conference included 236 papers, 7 keynote speeches, 4 workshops and 21 posters, with 363 attendees from 24 countries. Oral presentations were distributed in 48 sessions. After the delays an uncertain scenario that affected the 2<sup>nd</sup> HiSST, the conference is now in a very good shape and back on track. Selected papers will be published on a special issue of CEAS Space Journal.

### AIAA/CEAS Aeroacoustics Conference 2024

The 30<sup>th</sup> AIAA/CEAS Aeroacoustics Conference (Aeroacoustics 2024) was held from 4<sup>th</sup> to 7<sup>th</sup> of June in Rome, hosted by University Roma Tre, with a pre-conference Aeroacoustics Course on 3<sup>rd</sup> of June. The conference included 426 papers, distributed in 12 parallel sessions. This has been the most successful ever Aeroacoustics conference. The total number of registered participants reached the remarkable level of 541, including 140 PhD students. The event has been the occasion to assign the CEAS

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Aeroacoustics Award to Pieter Sijtsma and the AIAA Aeroacoustics Award to Krishnamurthy K. Viswanathan. Among the papers, the Best student paper award was assigned to Levent Ugur, while the Best paper award was assigned to Simon Bouley, Joannès Chambon and Olivier Minck. The Gala Dinner of the conference has given CEAS the opportunity to celebrate the CEAS Gold Award 2023 and the CEAS Distinguished Service Award 2023. The pre-conference course on Aeroacoustics of Low-Mach Number Flows was attended by over 100 participants.

### **EuroGNC 2024**

The EuroGNC 2024 Conference was held on the 11<sup>th</sup> – 13<sup>th</sup> of June in Bristol. The conference included 66 papers coming from the regular review process and 9 invited papers, with around 140 attendees. Among all papers, the EuroGNC Best Paper and Marc Péglerin's Award has been assigned to Lasse Shala, Shubham Vyas, Mohamed Khalil Ben-Larbi, Shivesh Kumar and Enrico Stoll from the German Research Center for Artificial Intelligence.

### **IFASD 2024**

The IFASD 2024 Conference was held on the 17<sup>th</sup> – 21<sup>st</sup> of June in The Hague. The conference programme included 56 sessions, with 177 presentations and 23 posters, with 271 attendees, including 64 students, from 26 countries. The Student Paper Prize was awarded to Stefanie Dussler from Imperial College.

### **ERF 2024**

The 50<sup>th</sup> European Rotorcraft Forum, ERF 2024, was held on the 10<sup>th</sup> – 12<sup>th</sup> of September in Marseille. The conference included 159 papers, distributed in 47 Technical sessions, with 368 registered participants from 19 countries. The Padfield Award for the ERF best young author paper prepared for and presented at the European Rotorcraft Forum ERF was assigned to Madeline Fischer from the University of Maryland. Selected papers will be published on a special issue of CEAS Aeronautical Journal.

### **AEC-2025**

The Aerospace Europe Conference 2025, joint 10<sup>th</sup> CEAS conference, 10<sup>th</sup> Aerospace & Defense Meeting and 28<sup>th</sup> AIDAA Conference, will take place in Torino from December 1 to December 4, 2025. The organisation of the event is already under way, with the Call for abstract opening at the end of January 2025. In addition to the regular technical sessions, with topics proposed jointly by CEAS and AIDAA, Special Sessions can be proposed up to July 2025 and it is expected to close the abstract submissions on

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September 15, 2025. The combination of the three events will make this a high-level gathering of professionals in the aerospace sector. As usual, the event will give CEAS the opportunity to deliver its 2024 Awards.

## **CEAS AT WORK**

The year has been characterised by three Board of Trustees meetings. A fourth meeting, informal, was organised online. The most relevant decisions are briefly discussed hereafter.

The internal organisation of CEAS has been discussed and the CEAS Bylaws have been amended to adapt them to an agreed common practice for the election of the CEAS President. The amended Bylaws now state that “The term of office is in principle one year for the President and two years for the three Vice-Presidents. Any Officer or Trustee may be re-elected, but due regard shall be paid to the desirability of rotation in the composition of the Board. In addition to the election of a CEAS President also a CEAS President-Elect will be elected with the intention that the President Elect will succeed the CEAS President after his term. When no President Elect can be found the president can be re-elected.”

The CEAS aerospace repository has been made fully operational and several conference papers are now available for consultation. The conference papers of 2024 will receive a DOI, while older papers will be stored and accessible without a DOI. In order to make papers accessible, a standard set of information has been defined, which will be mandatory to be provided with the pdf paper files. So far, papers from HisST and IFASD conferences have been uploaded.

CEAS has been active in promoting itself and its journals, setting up a small stand at the ICAS and IAC congresses, the two major aerospace events in Europe during 2024. Informative material has been made available, with roller banners and flyers for the journals and the CEAS and the printed copy of the latest CEAS Aerospace Europe Bulletin. In addition, promotional banners of CEAS and its journals have been displayed during the Aeroacoustics Conference and during HisST. These actions are intended to strengthen the image of CEAS and have been successful in terms of visibility to the aerospace community.

CEAS has decided to support financially best paper awards for students or young professionals at the CEAS conferences. Following this decision, best paper awards have been assigned at the IFASD, ERF, EuroGNC.

CEAS is an International Non-Profit Association  
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PSAA, ul. Nowowiejska 24, 00-665 Warszawa, Poland  
RAeS, No.4 Hamilton Place, London W1J 7BQ, United Kingdom  
SVFW, PO Box 301, 6032 Emmen, Switzerland

During the ICAS Congress in Firenze, CEAS and ICAS have renewed their Memorandum of Understanding for the cooperation. This Cooperation Agreement is intended to serve for the development of a mutually beneficial scientific, technological, and organizational cooperation between the Parties in aviation and space activities, promotion of developments in aerospace and popularizing the achievements and research in all areas of aeronautics and space. ICAS and CEAS express mutual interest to support exchanges among their members to broaden both organizations' networks and provide opportunities for the exchange of information on relevant topics in the field of aeronautics and aviation research.

### **CEAS Awards**

CEAS has provided awards for two outstanding individuals that have contributed greatly to the achievements within the aerospace industry and within CEAS, and to the authors of the most cited papers published on the CEAS Journals.

The CEAS Gold Award for 2024 has been assigned to Mr Georges Bridel, who has provided significant contributions to the development of European military fighter aircraft, including the development of stealth fighter geometries. He has provided great stimuli towards the development of a joint European future fighter aircraft. He was strongly engaged in the support of early career scientists and engineers in an international environment. Furthermore, he has provided great contributions to the development of CEAS. In 2008 he was CEAS President. In the CEAS conferences of 2011 and 2015 he provided presentations and organized workshops to support the joint European fighter aircraft and the supporting technologies. At present he heads the CEAS Past Presidents Committee and he was involved in the organization of the joint CEAS-EUCASS aerospace conference in Lausanne Switzerland.

The CEAS Distinguished Service Award has been assigned to Mr. Jean-Pierre Sanfourche, for his long-term dedicated service to CEAS and the entire European Aerospace Community as Editor-in-Chief of CEAS Aerospace Europe Bulletin.

I also like to mention the awardees for the most cited journal papers.

For the CEAS AERONAUTICAL JOURNAL:

1. Eißfeldt, H., Vogelpohl, V., Stolz, M., Papenfuß, A., Biella, M., Belz, J. & Kügler, D.: The acceptance of civil drones in Germany. CEAS Aeronautical Journal, 11(3), pp.665-676 (2020).

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2. Tam, C.K., Bake, F., Hultgren, L.S. & Poinsoot, T.: Combustion noise: modeling and prediction. CEAS Aeronautical Journal, 10, pp.101-122 (2019).
3. Seitz, A., Hübner, A. & Risse, K.: The DLR TuLam project: design of a short and medium range transport aircraft with forward swept NLF wing. CEAS Aeronautical Journal, 11(2), pp.449-459 (2020).

For the CEAS SPACE JOURNAL:

1. Bruhn F. C., Nandinbaatar T., Kunkel F., Flordal, O & Roxel I.: Enabling radiation tolerant heterogeneous GPU-based onboard data processing in space. CEAS Space Journal, 2020, Volume 12(4), Page 551-564,
2. Freeman, A.: Exploring our solar system with CubeSats and SmallSats: the dawn of a new era. CEAS Space Journal, 2020, Volume 12(4), pp.491-502.
3. Bellomo N., Magarotto M., Manente M., Trezzolani F., Mantellato R., Cappellini L., Paulon D., Selmo A., Scalzi D., Minute M., Duzzi M. & Barbato A.: Design and In-orbit Demonstration of REGULUS, an Iodine electric propulsion system. CEAS Space Journal, 2022, Volume 14(1), Page 79-90.

#### **GENERAL ASSEMBLY AND BOARD OF TRUSTEES MEETINGS DURING 2024**

The General Assembly was held only once, in November, while the BoT Meeting was held three times, in April, September and November. One further BoT meeting, informal, was organised online in June. At the end of the year, the CEAS Officers appointed for 2025 are the following:

- CEAS President, Mrs. Cornelia Hillenherms.
- Vice-President Publications and External Relations, Mr. Lucasz Kiskowskiak.
- Elected Vice-President Awards and Membership, Mr. Anders Blom.
- Vice-President Finance, Mr. Philip Nickenig.
- Director General, Mr. Andrea Alaimo.
- Aeronautics Branch Chairman, Mr. Jonathan Cooper.
- Space Branch Chairman, Mrs. Britta Schade.

The major and important decisions that have been taken along the year have been presented in this report.

Prof Franco Bernelli – President of CEAS

Milano, 07.01.2025.

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