

President's report for year 2022

The year 2022 has been characterised by intense activity, after a transient period caused by the Covid pandemic. New agreements, new internal procedures, new awards, thematic conferences and preparation of future events have characterised the year. Unfortunately, the international events in Ukraine led also to the loss of membership of TsAGI, that spontaneously decided to step aside.

CEAS AT WORK

The cooperation with other entities active in the aerospace domain has been mainly characterised by three events: the establishment of a new MoU with the PEGASUS network, the organisation of joint sessions with the Korean Society for Aeronautical and Space Sciences (KSAS) at the KSAS annual conference, the intensification of the contacts with EUCASS toward the organisation of a joint conference in 2023.

The MoU with PEGASUS was signed during the CEAS Board of Trustees meeting in Madrid, in June. PEGASUS was created in 1978 to foster cooperation among universities and with industry on all areas related to higher education in aerospace. PEGASUS focuses especially on the second level of studies. PEGASUS is the partnership of the best European aerospace universities with currently 28 members in 11 different European countries. PEGASUS partners include entities from France, Italy, Czech Republic, Germany, Portugal, UK, Netherlands, Sweden, Spain, Poland and Slovakia. Foreseen positive aspects for the future cooperation between CEAS and PEGASUS are the organization of workshops and conferences, exploitation of newsletters and bulletin, and promotion of the CEAS Journals among scientists and students.

The relations with EUCASS have been positive and fruitful, with the preparation of the Aerospace Europe Conference 2023 smoothly going forward. The budget and the structure of the conference have been agreed and the joint Programme Committee has been formed with equal participation from CEAS and EUCASS.

Bringing forward an idea that has been for long time under discussion, CEAS decided to establish its Past President Council. The main motivations for the establishment of this council are that the past CEAS presidents usually maintain contact with the actual CEAS leadership, normally they are experienced (in many cases the past presidents act as CEAS Trustees for their countries or supporting technical committees), and frequent changes in the CEAS Board may also require support from former Members. The basic concept is that the group supports CEAS when there is an expressed demand or when the Past Presidents think that their contribution should be proposed based on their own

CEAS is an International Non-Profit Association
CEAS Head Office is located in Belgium:
c/o DLR – Rue du Trône 98 – 1050 Brussels
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analysis. But in any case, it is informal and based on recommendations, with no administrative power. Support by the Council may be provided on the CEAS strategy, constitutions and rules, on relations between member societies and on relations with the EU and external societies, providing technical/administrative consultancy and helping in the identification of future CEAS President. At the time of its establishment, the group is composed by F.Abbink, P.Bescond, G.Bridel, Z.Goraj, D.Marshall, J.Szodruch.

CEAS Awards

The year 2022 has been the first in which CEAS assigned awards to the authors of the most cited papers published on the two CEAS Journals, in addition to the well established Gold Award and Distinguished Service Award. The CEAS Gold Medal Award was assigned to Professor Johann Dietrich-Wörner, nominated by the Royal Aeronautical Society - RAeS with a support letter from The Netherlands Association of Aeronautical Engineers – NVvL, while the CEAS Distinguished service award was assigned to Mr Dietrich Knörzner, nominated by the German Society for Aeronautics and Astronautics (DGLR).

The CEAS Most Cited Papers Awards for the CEAS Aeronautical Journal were assigned to:

1. R. Merino-Martínez, P. Sijtsma, M. Snellen, T. Ahlefeldt, J. Antoni, C. J. Bahr, D. Blacodon, D. Ernst, A. Finez, S. Funke, T. F. Geyer, S. Haxter, G. Herold, X. Huang, W. M. Humphreys, Q. Leclère, A. Malgoezar, U. Michel, T. Padois, A. Pereira, C. Picard, E. Sarradj, H. Siller, D. G. Simons, C. Speh, 2019. “A review of acoustic imaging methods using phased microphone arrays: Part of the “Aircraft Noise Generation and Assessment” Special Issue. CEAS Aeronautical Journal, 10(1), pp. 197-230,
2. C. M. Liersch, M. Hepperle, 2011. “A distributed toolbox for multidisciplinary preliminary aircraft design”. CEAS Aeronautical Journal, 2 (1-4), pp. 57-68
3. M. G. Ostergaard, A. R. Ibbotson, O. Le Roux, A. M. Prior., 2011. “Virtual testing of aircraft structures”. CEAS Aeronautical Journal, 1 (1-4), pp. 83-103

The CEAS Most Cited Papers Awards for the CEAS Space Journal were assigned to:

1. J. Santiago-Prowald, H. Baier; “Advances in deployable structures and surfaces for large apertures in space”. CEAS Space Journal, 2013, Vol. 5, No. 3-4, pp.89
2. M. Schneider, c. Hartwanger, H. Wolf; “Antennas for multiple spot beam satellites.” CEAS Space Journal, 2011, Vol. 2, No. 1-4, pp. 59

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3. S. Evans, W. Taber, T. Drain, J. Smith, H. C. Wu, M. Guevara, R. Sunseri, J. Evans; "MONTE: the next generation of mission design and navigation software." CEAS Space Journal, 2018, Vol. 10, No. 1, pp. 79.

HiSST 2022

The 2nd HiSST Conference, originally planned for April 2020, rescheduled to April 2021 and then rescheduled once again to May 2022, finally was held on the 11th – 15th of September in Bruges, Belgium in the hybrid mode. The conference included 167 papers, 6 invited lectures, attendees from 23 countries. The conference opening included a presentation of CEAS, delivered by Jonathan Cooper. Selected papers will be published on a special issue of CEAS Space Journal.

Joint KSAS/CEAS session at KSAS conference

Two joint KSAS/CEAS sessions were held in November at the KSAS conference. One session on Future Air Mobility and the second on Technology for Space Utilization and Exploration. CEAS had 5 presentations, contributing to the high quality of the sessions.

AEC-2023

The Aerospace Europe Conference is scheduled on 9-13th of July 2023 in Lausanne. Preparation of the event is ongoing and, so far, running smoothly. The list of panel chairs is complete, there are 14 panels and for each topic there is one chair from EUCASS and one from CEAS. One session will be organized by EASN and one session by EURO Turbo. It has been agreed that CEAS members will pay reduced conference fee. The call for abstracts for AEC 2023 should close around middle of February 2023. The reviewing process is planned to be finished until the end of April 2023. CEAS decided to support students to participate in the Aerospace Europe Conference 2023 in Lausanne, allowing each CEAS member society to select one student to receive financial support.

GENERAL ASSEMBLY AND BOT MEETINGS DURING 2022

The General Assembly was held once along the year, in November, while the BoT Meeting was held online in April and in hybrid mode in June, September and November. The CEAS Board of Officers meeting was held also once along the year, in March. At the end of the year, the CEAS Officers appointed for 2023 are the following:

- CEAS President, Prof Franco Bernelli Zazzera.
- Vice-President Publications and External Relations, Mrs Dominique Nouailhas.
- Elected Vice-President Awards and Membership, Mr Anders Blom.

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- Vice-President Finance, Dr Cornelia Hillenherms.
- Director General, Prof Andrea Alaimo.
- Aeronautics Branch Chairman, Prof. Jonathan Cooper.
- Space Branch Chairman, Dr 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, 22.12.2022.

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