



COUNCIL OF EUROPEAN AEROSPACE SOCIETIES

CEA



3AF - AIAE - AIDAA-AAAR-DGLR - FTF - HAES- NVvL- RAeS-SVFW-TsAGI-PSAA



CEAS in brief

Fred Abbink
CEAS President

Brussels , 10 December 2014



- 1. CEAS History**
- 2. CEAS Member Societies**
- 3. CEAS Objectives and Activities**
- 4. International Cooperation**
- 5. CEAS Organisation**
- 6. Conclusions**

- Since foundation Europe's main professional aerospace societies serve their individual members with national presentations, symposia, networks and other services
- In 1958 Prof Von Kármán, Chairman of AGARD, founded the International Council of the Aeronautical Sciences ICAS. The UK, German, French, Netherlands, Swedish and Swiss Societies joined ICAS from the start
- In mid 1980s Europe's main professional aerospace societies, after having had bilateral exchanges for long time, and their international Congresses through ICAS, recognized increasing importance of European aerospace business and strength of European industry alliances and decided to develop close working relationships
- This culminated in formation of *Confederation of European Aerospace Societies (CEAS)* at 1992 Farnborough Airshow and official signing of CEAS Constitution at 1993 Paris Airshow

- Later on, in 2003, 8 Constituent Societies realized that deeper collaboration was necessary, which would provide CEAS with legal status and more flexible resources
- New status transformed former Confederation into *Council of European Aerospace Societies (CEAS)* and gave CEAS legal status under Belgian law
- Today CEAS comprises twelve member societies (“trustee members”) with combine over 34.000 individual members

	3AF	Association Aéronautique et Astronautique de France
	AAAR	Asociația Aeronautică și Astronautică a României
	AIAE	Asociación de Ingenieros Aeronáuticos de España
	AIDAA	Associazione Italiana di Aeronautica e Astronautica
	DGLR	Deutsche Gesellschaft für Luft- und Raumfahrt - Lilienthal- Oberth e. V.
	FTF	Flygtekniska Föreningen. Svensk förening för flygteknik och rymdteknik
	HAES	Hellenic Aeronautical Engineers Society
	NVvL	Nederlandse Vereniging voor Luchtvaarttechniek
	PSAA	Polish Society of Aeronautics and Astronautics
	RAeS	Royal Aeronautical Society
	SWFV	Schweizerische Vereinigung für Flugwissenschaften
	TsAGI	Central Aerohydrodynamic Institute Russian Aerospace Society

Society	Founded	Members*
RAES (UK)	1866	20.000
DGLR (DE)	1912	2700
TsAGI (RU)	1918	4400
AIDAA (IT)	1920	260
AIAE (ES)	1928	2545
FTF (SE)	1933	1675
NVvL (NL)	1941	350
AAAF (FR)	1945	1500
SVFW (CH)	1957	250
HAES (GR)	1975	365
AAAR (RO)	2006	115
PSAA (PL)	2010	120
Total CEAS	1993	34.280

AIAA (USA) 1933 35.000

- Associate Members
 - Open to European Aerospace Societies with intention of joining as Trustee Members
 - Czech Aeronautical Society (CzAeS)
- Corporate Members
 - Any other public or private entity, willing to support CEAS
 - ESA
 - Von Karman Institute
 - LAETA
 - EUROAVIA



- Conducting integrated programs consisting of specialized and interdisciplinary meetings, dissemination of research and publication of scientific and technical information,
- Encouraging international cooperation through creation of committees, task forces and study groups, and promotion of joint activities with other national and international organisations in aeronautics and astronautics and allied fields
- Publishing CEAS journals and newsletter, as well as books, proceedings and papers dealing with aeronautics and astronautics
- Recognizing outstanding contributions to aeronautics & astronautics by bestowing awards and honours on the contributors
- Effecting cooperation with organizations chartered for similar purposes
- Carrying out other tasks deemed desirable for promoting advancement of aeronautics & astronautics

CEAS provides at an European Level:

- Input into EC Framework Research Programs



- Input onto European Parliament on technical-political issues

- Input into other European Institutions



Education and Culture DG

‘Youth in Action’ Programme

COUNCIL OF EUROPEAN AEROSPACE SOCIETIES

CEAS reaches its objective

“to promote interest of constituent societies on European scale and European aerospace activities internationally”

through organizing:

- Knowledge transfer through organizing technical workshops and symposia
- European Conferences dealing with specific disciplines and broader technical aspects
- Political and technical Bi-annual European Conferences (Europe – Air & Space)



CEAS website (<http://www.ceas.org/>)

CEAS – ASD Conference Programming Management Information System CPMIS (<http://www.aerospace-events.eu/>)



The screenshot shows the CEAS website homepage. At the top, it features the CEAS logo and the text 'COUNCIL OF EUROPEAN AEROSPACE SOCIETIES'. Below this is a navigation bar with links for Home, CEAS Calendar, Hall of fame, CEAS in brief, Specialists' Committees, CEAS Intranet, CEAS Bulletin, Links, and Flight Live. A 'CEAS Bulletin' section is also visible. The main content area includes a 'NEWS' section with a '4/10' indicator, a 'CEAS Bulletin' section with a 'Click on picture to read' prompt, and a '20th AIAA/CEAS Aeroacoustics Conference' announcement for Atlanta, Georgia, USA, held from June 16-20, 2014. There is also an announcement for the '40th European Rotorcraft Forum 2014' in Southampton, UK, held from September 02-05, 2014. The ESA Publications logo is also present. At the bottom, there is a 'CEAS Members' section with logos for various member organizations like VKI, BAF, and AA. A 'make picture bigger' link is also visible above a large image of an aircraft wing in a factory.

Search

Calendar views

Day Week Month

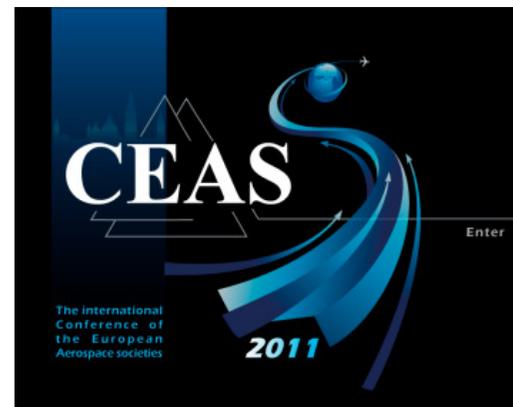
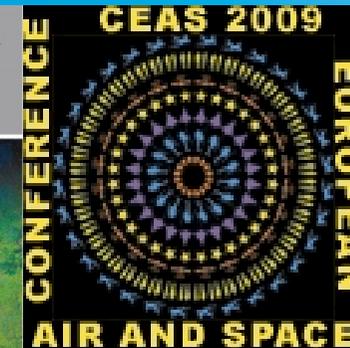
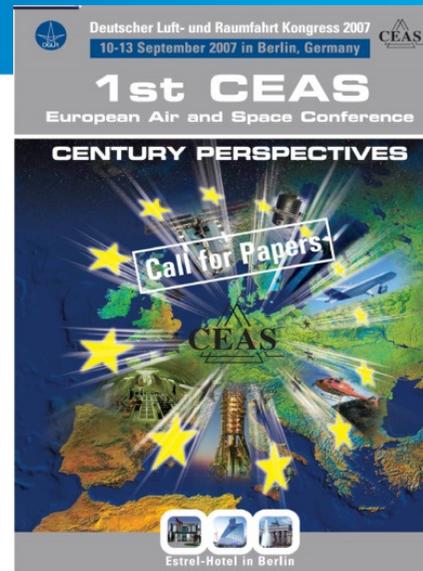
Legend

- Aeronautic Sciences
- Air Power
- Civil Aviation
- Space
- Student & Young professional
- Aerospace

Upcoming Events

- | Event Title | Date | Year |
|--|-----------------|--|
| Space Operations 2014 | May 05 - May 09 | 2014 |
| Category: Space
Subcategory: General
Type: CONFERENCE | | www.aiaa.org/events |
| SpaceOps 2014 | May 05 - May 09 | 2014 |
| Category: Space
Subcategory: General, Space vehicles
Type: CONFERENCE | | www.aiaa.org/spaceops2014/ |
| 2nd Air Transport Symposium | May 07 - May 08 | 2014 |
| Category: Civil Aviation
Subcategory: Airlines, Airports, Commercial aviation, Public policy
Type: CONFERENCE | | www.icao.int/Meetings/ats2014 |
| ATCA 2014 Technical Symposium | May 13 - May 15 | 2014 |
| Category: Civil Aviation
Subcategory: Aircraft, Airlines, Airports, ATM/ATC, Exhibition, Safety
Type: CONFERENCE | | www.atca.org/TechSymposium |
| The Future of Human Space Exploration | May 14 | 2014 |
| Organizer: RAeS
Location: UNITED KINGDOM
Category: Space
Subcategory: Human Factors, Manned space flights
Type: LECTURE | | www.aerosociety.com/events |
| Aircraft Fuel Systems: Future challenges and innovative solutions | May 15 | 2014 |
| Organizer: FP7 Project SAFUEL
Category: Aeronautic Sciences
Subcategory: Aircraft, Engineering, Manufacturing/Design
Type: WORKSHOP | | www.safuel-fp7.eu |
| Space Propulsion 2014 | May 19 - May 22 | 2014 |
| Organizer: SAE Int
Category: Space
Subcategory: Launchers, Propulsion, Research and TD, Technology
Type: CONFERENCE | | www.propulsion2014.com |

- 2007 Berlin
- 2009 Manchester
- 2011 Venice
- 2013 Linköping
- 2015 Delft



**CHALLENGES
IN EUROPEAN
AEROSPACE**
5TH CEAS AIR & SPACE CONFERENCE

Date	Conference	Venue
Jun-10	16th AIAA/CEAS Aeroacoustics Conference	Stockholm (Sw)
Sep-10	European Rotorcraft Forum (ERF)	Paris (F)
Sep-10	2 nd CEAS Air & Space conference	Manchester (UK)
Oct-10	14th Workshop Aeroacoustics of High-Speed Propellers and Open Rotors,	Warsaw (Po)
Apr-11	1st Guidance, Navigation & Control Conference (GNC)	Munich (G)
Jun-11	17th AIAA/CEAS Aeroacoustics Conference	Portland (US)
Jun-11	15th International Forum on Aeroelasticity and Structural Dynamics (IFASD)	Paris (F)
Sep-11	European Rotorcraft Forum (ERF)	Gallerate (I)
Oct-11	15th Workshop Acoustic Liners and Associated Propagation Techniques	Lausanne (Sw)
Jun-12	Aeroacoustics Conference	? (US)
Sep-12	European Rotorcraft Forum (ERF)	Amsterdam (NI)
Sep-12	3 rd CEAS Air & Space conference	Venice (I)
Oct-12	16th Workshop on Aeroacoustics installation effects & novel aircraft architectures	Braunschweig (G)
Apr-13	2nd Guidance, Navigation and Control Conference (EuroGNC 2013),	Delft (NI)
May-13	19th Aeroacoustics Conference	Berlin (G)
Jun-13	International Forum on Aeroelasticity and Structural Dynamics (IFASD)	Bristol (UK)
Sep-13	European Rotorcraft Forum (ERF)	Moscow (Ru)
Sep-13	4 th CEAS Air & Space conference	Linköping (Sw)
Sep-13	11th European Workshop on Aircraft Design Education (EWADE 2013)	Linköping (Sw)
Sep-13	3rd Symposium on Collaboration in Aircraft Design	Linköping (Sw)
Sep-13	17th workshop 'Atmospheric and ground effects on aircraft noise	Sevilla (Sp)
Jun-14	20th Aeroacoustics Conference AAC	Atlanta (US)
Sep-14	European Rotorcraft Forum (ERF 40)	Southampton (UK)
Sep-14	18th Workshop 'Aircraft noise reduction by flow control and active/ adaptive techniques	Vilnius (Lit)
Nov-14	Symposium on Collaboration in Aircraft Design	Toulouse (F)
Apr-15	Guidance, Navigation & Control Conference (GNC)	Toulouse (F)
Jun-15	21th AIAA/CEAS Aeroacoustics Conference	Dallas (US)
Jul-15	International Forum on Aeroelasticity and Structural Dynamics (IFASD)	St Petersburg (R)
Sep-15	European Rotorcraft Forum (ERF)	Munich (G)
Sep-15	5 th CEAS Air & Space conference	Delft (NI)

CEAS reaches its objective

“to foster the visibility and development of aerospace in Europe”
through publications such as:

- Position/ discussion papers on key issues
- Quarterly Bulletins reporting on and advertising activities
- Peer-reviewed articles, published in Scientific/Technical Journals
 - CEAS Space Journal
 - CEAS Aeronautical Journal



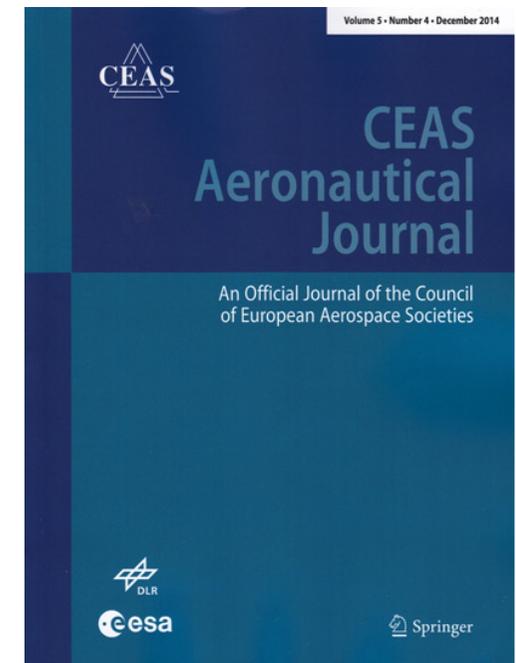
- CEAS Space Journal is devoted to publishing new developments and results in all areas of space-related science and technology including important spin-off capabilities and applications as well as ground-based support systems and manufacturing advancements
- It provides in-depth reviews of status of development in specific areas of relevance to space, and descriptions of potential way forward
- Typical disciplines of interest include mission design and space systems, physical fluid dynamics, materials, aerothermodynamics, environmental conditions and life support systems, Guidance, Navigation and Control systems, propulsion, power, robotics, structures, testing and thermal control



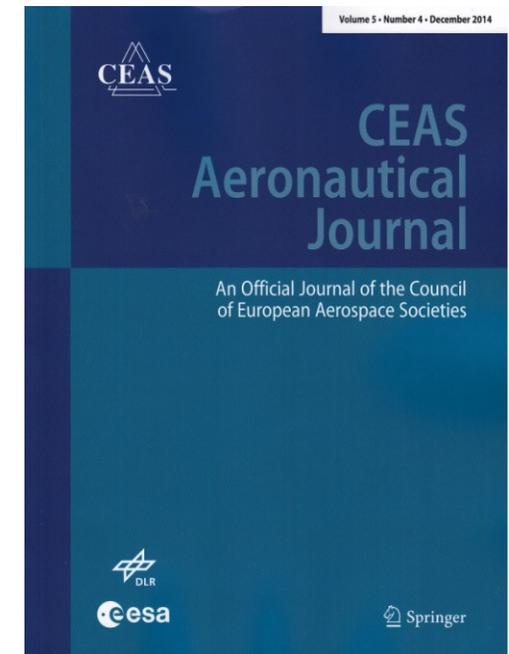
Volume	Date	Nr Articles
Vol 1	Sept 2011	9
Vol 2	Dec 2011	10
Vol 3, Issue 1-2	June 2012	6
Vol 3, Issue 3-4	Dec 2012	2
Vol 4, Issue 1-4	June 2013	6
Vol 5, Issue 1-2	Sept 2013	6
Vol 5, Issue 3-4	Dec 2013	13
Vol 5, Issue 3	March 2014	7
Vol 5, Issue 4	June 2014	5



- CEAS Aeronautical Journal is devoted to publish new developments and results in all areas of aeronautics-related science and technology
- Of interest are (invited) in-depth reviews of status of development in specific areas of relevance to aeronautics, and descriptions of potential way forward
- Topics of the journal are aero-acoustics, aero-elasticity, air transport system, air traffic management, flight mechanics, flight physics/aerodynamics, propulsion, structures and materials, rotorcraft, missiles and UAVs



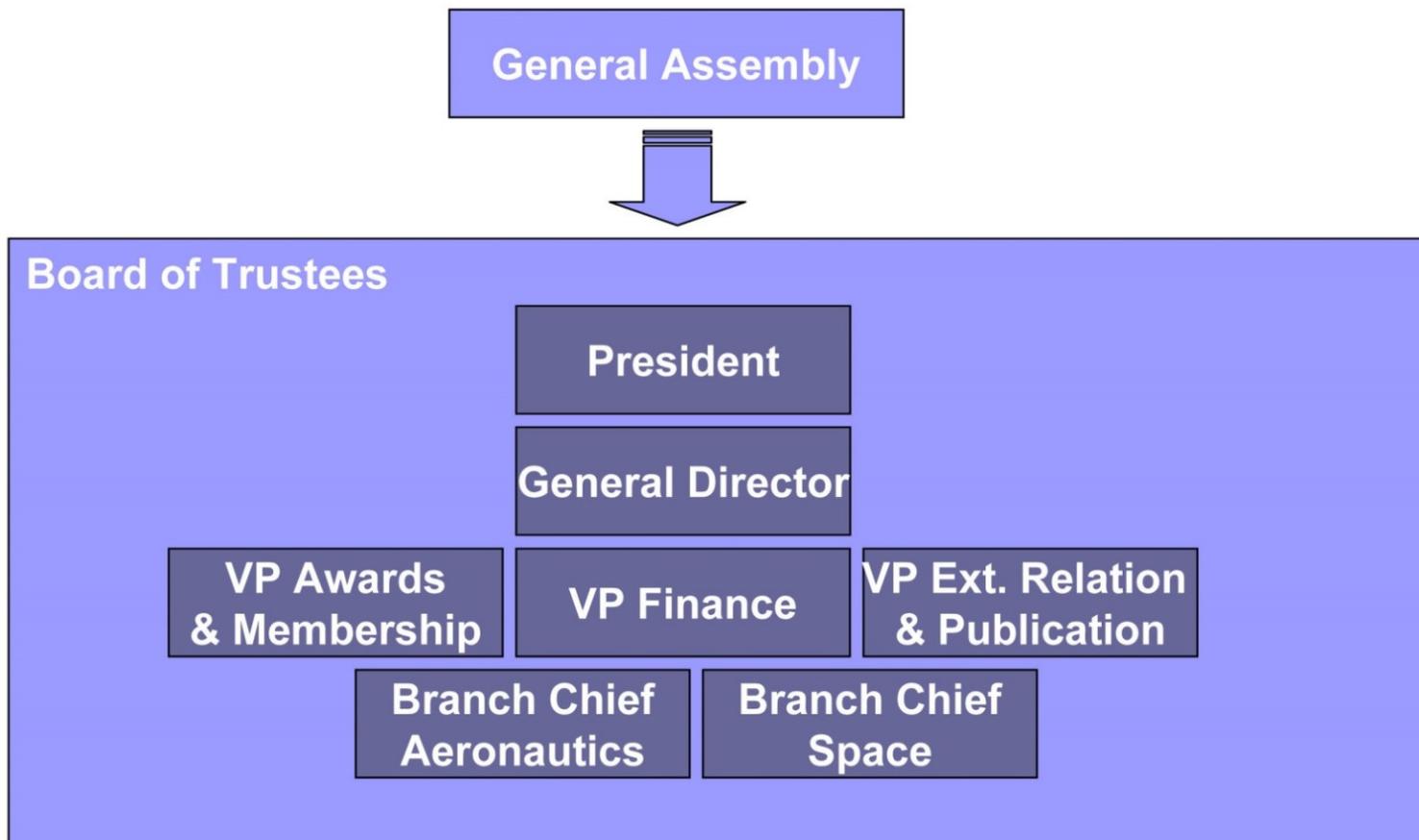
Volume	Date	Nr Articles
Vol 1	Sept 2011	6
Vol 2	Dec 2011	28
Vol 3, Issue 1	April 2012	9
Vol 3, Issue 2-4	Dec 2012	4
Vol 4, Issue 1	April 2013	14
Vol 4, Issue 2	June 2013	6
Vol 4, Issue 3	Sept 2013	8
Vol 4, Issue 4	Dec 2013	8
Vol 5, Issue 1	March 2014	8
Vol 5, Issue 2	June 2014	8
Vol 5, Issue 3	Sept 2014	11
Vol 5, Issue 4	Dec 2014	11



CEAS fosters international cooperation through Memoranda of Understanding with:

- International Council for the Aeronautical Sciences (ICAS)
- American Institute for Aeronautics and Astronautics (AIAA)
- (French) Air and Space Academy (AAE)
- Chinese Society of Aeronautics (CSA)
- Korean Society for Aeronautical and Space Science (KSAS)





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List of CEAS Space Branch Technical Committees

- Structures
- Thermal
- ECLS
- Mechanisms
- Robotics
- Propulsion
- Aerothermodynamics
- Guidance Navigation and Control
- Power
- Mission design and space systems
- Satellite Communications
- Materials

- 7th European Workshop on Thermal Protection Systems & Hot Structures, April 2013, Braunschweig (D)
- Large Deployable Antenna Workshop, Oct. 2013, Noordwijk (NL)
- 15th European Space Mechanisms and Tribology Symposium, Sept. 2013, Noordwijk (NL)



→ 15th EUROPEAN SPACE MECHANISMS & TRIBOLOGY SYMPOSIUM



25-27 September 2013
DeMuzie Theatre
Noordwijk, The Netherlands
www.esmats.eu

- 10th European Space Power Conference, April 2014, Noordwijkerhout (NL)
- 4th Space Propulsion 2014 , May 2014, Cologne (GE)
- 42nd Aerospace Mechanism Symposium, May 2014, Baltimore (USA)
- 9th Int. ESA Conf. on Guidance Navigation and Control, June 2014, Porto (PO)
- 28th Annual European Space Thermal Analysis Workshop, Oct 2014, Noordwijk (NL)
- Workshop on Additive Manufacturing for Space Application, Oct 2014, Noordwijk (NL)
- 8th Aerothermodynamics Symposium, March 2015, Lisbon (PO)
- 16th Aerospace Mechanism and Tribology Symposium, Se

List of Aeronautical Branch Technical Committees

- Aero acoustics
- Rotorcraft
- Aero elasticity & structural dynamics
- Guidance, Navigation and Control
- Aircraft design
- Integrated Air Transport Operations

List of Aeronautical Branch Networks

- Air transport system
- Avionics
- Cabin systems
- Flight physics
- On-board energy
- Propulsion systems
- Structural design & materials
- Testing / sensors
- UAV

- 19th AIAA/CEAS Aeroacoustics Conference 2013, Berlin, 27-29/05/13
 - 270 Presentations, 375 participants
 - Best paper award
 - Visit to AneCom AeroTest
- 17th workshop ‘Atmospheric and ground effects on aircraft noise’, Seville, 24-25/09/13
- 20th AIAA/CEAS AAC 2014: Atlanta (USA) as part of "AIAA Aviation 2014", 16-20/06/14
 - 255 papers
 - Hand-out aeroacoustics award to Nigel Peake
- 18th Workshop ‘Aircraft noise reduction by flow control and active/ adaptive techniques’, Vilnius (Lit), 25-26/09/14
 - 34 participants, 11 papers
- AAC 2015 in Dallas (US)
- AAC 2016 in Lyon (F)





- Poland has joined International Committee as 7th nation in 2012
- European Rotorcraft Forum ERF 39: 2 – 6 Sep. 3-6 2013 in Moscow, Russia (Russian Helicopters, JSC)
 - 119 Presentations, 230 attendees, visit a.o. to Mil Moscow Helicopter Plant
 - MoU with American Helicopter Society (AHS) signed
- European Rotorcraft Forum ERF 40: 2 - 5 Sep 2014 in Southampton (UK)
 - 123 Papers, 238 attendees
- European Rotorcraft Forum ERF 41: 1 - 5 Sep 2015 in Munich (G)
 - Call for papers launched

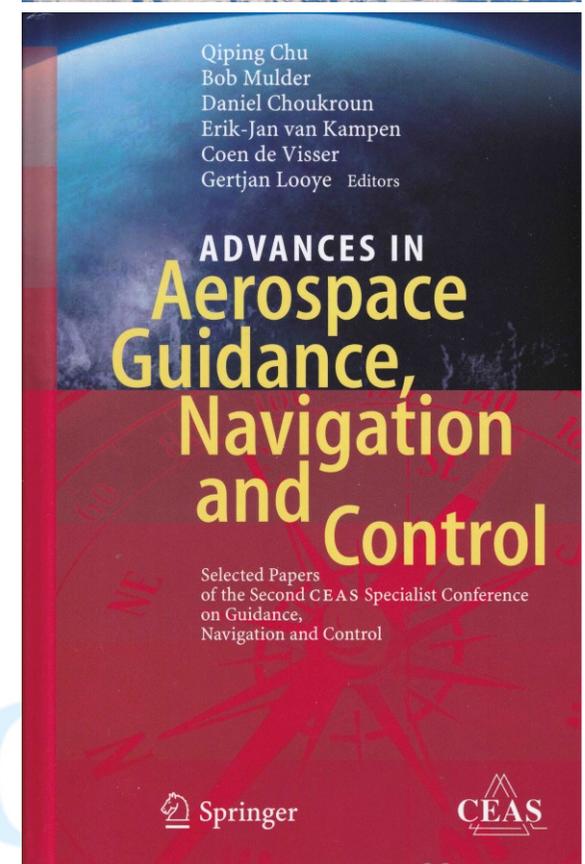
International Forum on Aeroelasticity and Structural Dynamics

24 – 27 June 2013, Bristol, UK



- International Forum of Aeroelasticity & Structural Dynamics (IFASD), Bristol, 24-26 June 2013
 - 155 Presentations, 3 keynotes, best paper award
 - 252 Attendees
 - Visit a.o. to Airbus & National Composite Centre
 - RAeS Aeronautical Journal (special edition), selection of papers
- IFASD 2015: St Petersburg (R)
- IFASD 2017: Como (I)

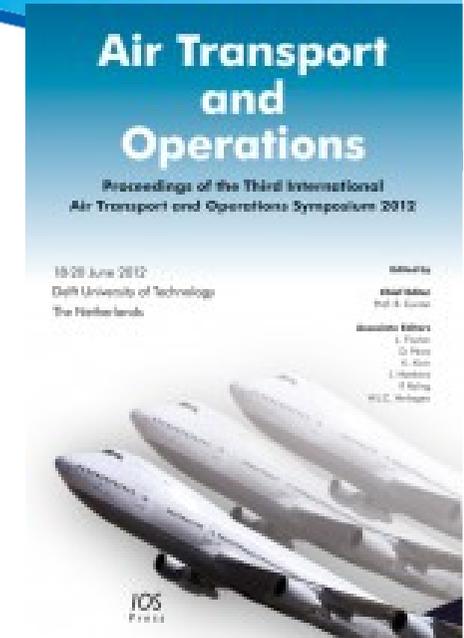
- Combined aeronautics & space 2nd Guidance, Navigation and Control Conference (EuroGNC 2013), Delft, 10-12 April 2013
 - 94 papers & 6 keynote lectures
 - 1 Springer edited book, 137 attendees
- EuroGNC 2015: Toulouse (F)
 - Organisation started
- EuroGNC 2017: Warsaw (P)



- 11th European Workshop on Aircraft Design Education (EWADE 2013), Linköping (Sweden) integrated in CEAS 2013 conference
- 3rd Symposium on Collaboration in Aircraft Design on 19 & 20 Sept 2013 (Linköping University) & first TC meeting
 - Approx. 35 presentations, 70 attendees
- Technical Committee on Aircraft Design (TCAD) Symposium on Collaboration in Aircraft Design, ONERA Toulouse (F), 25-27 Nov 2014



- Common initiative of Prof. Volker Gollnick, DLR Air Transportation System and Prof. Ricky Curran, TU Delft, Aerospace Faculty
- Consists of 7 experts (slowly expanding) equally distributed across Europe
- Homogenous representation of research establishments, academia & industry (airports, airlines, ANSPs, aircraft manufacturers)
- Meet 3 times per year (ATOS conference, spring, autumn)



CEAS reaches it's objective

“to promote the interest of constituent societies on European scale and European aerospace activities internationally”

through:

- Professional Recognition at European Level for its members by providing Directory of European Professionals
- Honors and Awards by offering annual gold medal to recognize outstanding achievements, and medals in technical areas to recognize technical achievement
- Young people's focus by attracting their interest in Aerospace in Europe

- 1998 Jean Pierson France
- 1999 Walter Kroell Germany
- 2000 Ralph Robins United Kingdom
- 2001 Paulo Santini Italy
- 2002 Fredrik Engstrom Sweden
- 2003 Richard Case United Kingdom
- 2004 Alvaro Azcarrage Spain
- 2005 Rainer Hertrich Germany
- 2007 David Southwood United Kingdom
- 2008 Jean-Paul Bechat France
- 2009 Carl Peter Fichtmuller Germany
- 2010 Ernesto Valerani Italy
- 2011 Stamatios Krimigis Greece
- 2012 Manfred Fuchs Germany
- 2013 Louis Gallois France
- 2014 Fred Abbink Netherlands



- EUROAVIA was invited to Board of Trustees meeting in Amsterdam on April 23rd 2010
 - Fruitful discussion followed presentation by EUROAVIA, promotion of scholarships, competitions and other opportunities on student level
 - Mutual cooperation in European events related to students and young professionals
 - Possibility to contact CEAS for support to international events
 - Mutual cooperation to spread EUROAVIA to remaining universities with support of CEAS
 - Use of extensive network of CEAS and EUROAVIA to establish better communication and feedback between students and aerospace industry
- EUROAVIA is now associated with CEAS
- EUROAVIA is invited to CEAS Board of Trustees meetings

CEAS is initiative of European professional Aerospace Societies to cooperate towards

- Providing network of European aerospace professionals
- Sharing knowledge through general and specialist conferences
- Publishing quarterly Bulletin, Journals and Books
- Cooperation through MOUs with ICAS, AIAA, AAE and other international aerospace organizations
- Joint recognition of outstanding European Aerospace Professionals
- Providing support to students and young professionals

CEAS maintains strong relations with the EU and its Framework Programs, CleanSky and SESAR , and organisations as ESA, ASD, ACARE and **EREA**

- Support knowledge exchange between subject matter experts (at European level)
- Strengthening of education and training of students and young engineers in the field of aerospace
- Support to European Institutions (EC, ASD, ACARE, EASA, ESA) in decision making stressing importance of future European aeronautical research
- Increase global visibility of European aeronautical competences (sciences)
- Provide more recognition/awareness for aeronautical sciences as a major field of research
- Enhance scientific and technical quality of events / conferences by aggregating expertise (speakers, program committee membership)
- Increased visibility of European aeronautical events and publications
- Enhance the impact and accessibility of publications relevant to European aerospace community by implementing a policy in the publication domain with focus on open access