



International Council of  
the Aeronautical Sciences

# THE INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

*Covering the world of Aeronautics*



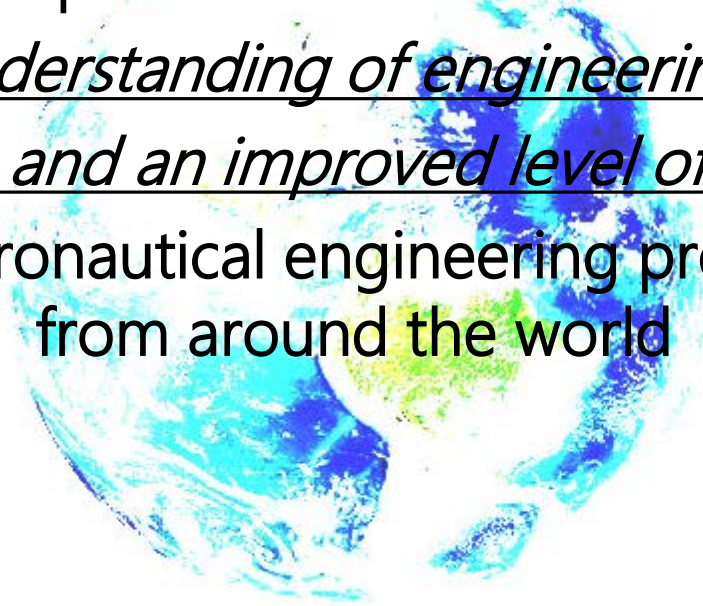


International Council of  
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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

The International Council of Aeronautical Sciences  
intends to provide regularly scheduled events  
and publications that enable a  
*better understanding of engineering science  
and practice and an improved level of cooperation*  
among aeronautical engineering professionals  
from around the world



*Covering the world of Aeronautics*



International Council of  
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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

## MISSION **OBJECTIVE** HISTORY ORGANISATION STRATEGIC

- 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 *international* research community to challenges and issues through lectures by leading experts in aeronautics and its technologies
- Engage young people in the *global* aeronautical community through special events and prizes
- Create a vibrant *international* network that produces increased understanding, appreciation, and tolerance among participants



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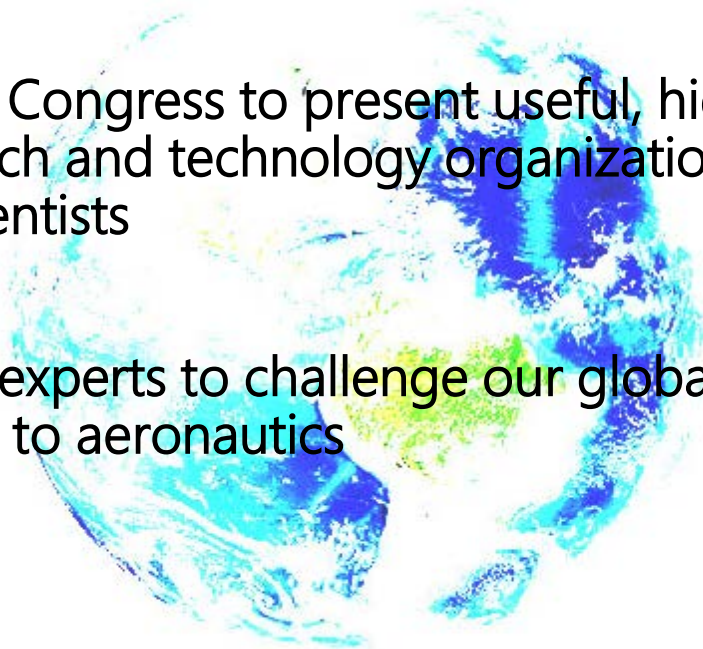


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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION **OBJECTIVE** HISTORY ORGANISATION  
OPERATIONAL

- Implement our objectives through the involvement of appointed representatives of our Member Societies and the valued advice and counsel of our Associated Members
- Provide a biennial Congress to present useful, high quality work from world-wide research and technology organizations to all interested engineers and scientists
- Provide articulate experts to challenge our global community on issues of specific interest to aeronautics



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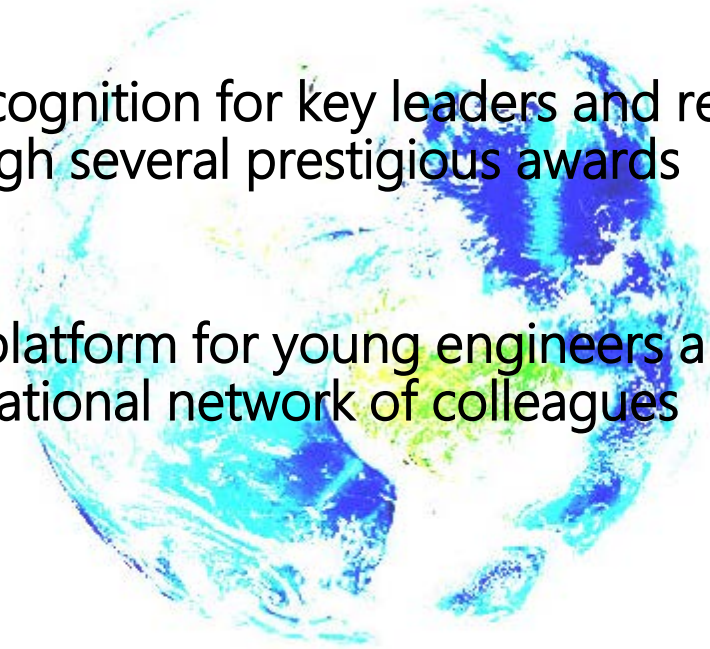


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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION **OBJECTIVE** HISTORY ORGANISATION  
OPERATIONAL

- Provide supporting sessions and papers to meetings of Member Societies and Associated Members upon request
- Provide global recognition for key leaders and researchers in aeronautics through several prestigious awards
- Provide a global platform for young engineers and students to begin to develop an international network of colleagues



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE **HISTORY** ORGANISATION

In 1957 Theodore von Karman founded ICAS as a non-government not-for-profit scientific organization to encourage the free international exchange of information on aeronautical research and technology



Theodore van Karman  
ICAS President 1957-1963



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE **HISTORY** ORGANISATION







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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

## MISSION OBJECTIVE **HISTORY** ORGANISATION

### CONGRESS HISTORY

1958 Spain - Madrid  
1960 Switzerland - Zurich  
1962 Sweden - Stockholm  
1964 France - Paris  
1966 United Kingdom - London  
1968 Germany - Munich  
1970 Italy - Rome  
1972 Netherlands - Amsterdam  
1974 Israel - Haïfa  
1976 Canada - Ottawa  
1978 Portugal - Lisbon  
1980 Germany - Munich  
1982 United States – Seattle  
1984 France – Toulouse  
1986 United Kingdom – London  
1988 Israel – Jerusalem  
1990 Sweden - Stockholm

1992 China - Beijing  
1994 United States - Anaheim  
1996 Italy - Sorrento  
1998 Australia - Melbourne  
2000 United Kingdom - Harrogate  
2002 Canada – Toronto  
2004 Japan – Yokohama  
2006 Germany – Hamburg  
2008 United States - Anchorage  
2010 Nice – France  
2012 Australia – Brisbane  
2014 Russia – St. Petersburg  
2016 Korea - Daejeon  
2018 Brazil – Belo Horizonte



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE **HISTORY** ORGANISATION

WORKSHOP HISTORY

## **2005 Greece – Mykonos**

Towards a global vision for Aviation Safety and Security

## **2007 Spain – Seville**

Advanced Materials & Manufacturing: Certification and Operational Challenge

## **2009 The Netherlands – Amsterdam**

UAV Airworthiness – certification and access to the airspace

## **2011 Sweden – Stockholm**

Advanced Materials & Manufacturing: Certification and Operational Challenges

## **2013 South Africa – Capetown**

The More Electrical Aircraft : Achievements & perspectives for the future

## **2015 Poland – Krakow**

Complex Systems Integration in Aeronautics

## **2017 Switzerland – Winterthur**

Topic: tbd

## ICAS Organisation



### ICAS Main Bodies

- ICAS Council
- ICAS Executive Committee (EC)
- ICAS Programme Committee (PC)

### Regulatory Documents

- ICAS Statutes
- ICAS Internal Regulations



### ICAS Council

- “ICAS General Assembly”
- Representation of the Members
- Members of the ICAS EC can not be representatives in the Council
- ICAS President is Chair of the Council Meeting with no vote, except in case of a tie
- Council Meetings are held at the Congress



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS MAIN BODIES



## ICAS Executive Committee (EC)

- "ICAS Management"
- Appointed by the Council
- Voted for a two-year-cycle
- Meet at least twice a year





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS MAIN BODIES



## ICAS Executive Committee (EC)

- Five Officers:
  - President
  - Past President
  - Treasurer
  - Chair of the Programme Committee
  - Executive Secretary
- Chair of the Honorary Fellows Advisory Group
- Plus not more than eight additional members



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS MAIN BODIES

## Current ICAS Executive Committee (EC)



- President: Christian Mari, France 
- Chair Programme Committee: Susan Ying, U.S.A. 
- Treasurer: Gunnar Holmberg, Sweden 
- Past President: Murray Scott, Australia 
- Executive Secretary: Axel Probst, Germany 



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS MAIN BODIES

## Current ICAS Executive Committee (EC)



- Chair of the Honorary Fellows Advisory Group: Fred Abbink 
- Chair of the Programme Planning Sub-Committee: Shinji Suzuki 
- Chair of the Strategic Planning Sub-Committee: Dimitri Mavris 
- Chair of the Members & External Relations Sub-Committee: Joao Azevedo 
- Members at Large:
  - Michel Peters 
  - Chris Atkin 
  - Alexander Filatyev 
  - Rolf Henke 
- Associated to ICAS EC 2016: Jinsoo Cho 



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY **ORGANISATION**  
ICAS MAIN BODIES



## ICAS Programme Committee (PC)

- “ICAS Work-Committee”
- Meets every year
- Members are chosen by qualification (industry & academia)



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

## MISSION OBJECTIVE HISTORY ORGANISATION ICAS MAIN BODIES

F. J. Abbink, The Netherlands  
G. A. Amiryants, Russia  
C. Atkin, United Kingdom  
J.L.F. Azevedo, Brazil  
J. Bayandor, Australia  
E. Belo, Brazil  
E. Bigarella, Brazil  
C. Bil, Australia  
Ch. Breitsamter, Germany  
L. M. B. C. Campos, Portugal  
F. Collier, U.S.A.  
C. Y. Chun, China  
R. Del Rosario, U.S.A.  
H. Djojodihardjo, Indonesia  
A. Filatyev, Russia  
B. Fredriksson, Sweden  
Y. Fu, China  
S. Fu, China  
Z. Gao, China  
T. Goetzendorf-Grab., Poland  
Z. Goraj, Poland

J.H. Han, Korea  
M. Harigae, Japan  
F. Haselbarch, UK  
R. Henke, Germany  
G. Holmberg, Sweden  
A. Isikveren, Australia  
E. Itoh, Japan  
L. Jiang, China  
M. Kanerva, Finland  
Y. Kim, Korea  
B. Kimmel, USA  
P. Krus, Sweden  
B. Laschka, Germany  
L. Manfriani, Switzerland  
C. Mari, France  
D. Mavris, USA  
J. Melkert, The Netherlands  
Ch. Michaut, France  
A. Mirzoyan, Russia  
J. S. Monk, South Africa  
D. Mueller-Wiesner, Germany

F. Ogilvie, United Kingdom  
A. Orifici, Australia  
F. Persiani, Italy  
M. Peters, The Netherlands  
A. Pistek, Czech Republic  
O. Rand, Israel  
B. Rasuo, Serbia  
S. Remy, France  
K. Rein-Weston, USA  
S. Ricci, Italy  
K. Rinoie, Japan  
J. Rohács, Hungary  
O. Saarela, Finland  
M. Scott, Australia  
L. Smrcek, United Kingdom  
M. Snitch, U.S.A.  
B. Stoufflet, France  
E. Stumpf, Germany  
S. Jian, China  
S. Suzuki, Japan  
J. Szodruch, Germany

M. Tavares, Brazil  
H. Toeppen, Germany  
T. Tsitinidis, Greece  
T. Ueda, Japan  
N. Voevodenko, Russia  
T. Wan, Taiwan, China  
W. Wang, China  
S. Ying, USA  
S. Zan, Canada  
X. Zhang, China  
Y.Z. Zhang, China

*as of April 2016*





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY

**ORGANISATION**  
REGULATORY DOCUMENTS

ICAS Statutes



ICAS Internal Regulations



STATUTES

of the Association

INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

Brisbane, September 26, 2012



**ICAS Internal Regulations**

Related to the ICAS Statutes adopted in 2012

Internal regulations modified Sept 2014 (section IR(C)-01) due to Council decision about new membership fee structure.

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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

SUB COMMITTEES

- ICAS Honors & Awards Sub-Committee  
Chair: ICAS Past President
- ICAS Finance Sub-Committee  
Chair: ICAS Treasurer
- ICAS Strategic Planning Sub-Committee (SPSC)  
Chair: individually chosen from EC
- ICAS Membership & External Relationship Sub-Committee (MERSC)  
Chair: individually chosen from EC
- ICAS Student Awards Selection Sub-Committee  
Chair: individually chosen from EC
- ICAS Young Professionals Sub-Committee  
Chair: individually chosen from EC



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION  
ICAS MAIN BODIES

## ICAS Permanent Secretariat

- ICAS Executive Secretary
- ICAS Coordinator
- Always hosted by an ICAS Member



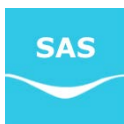


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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

MEMBER SOCIETIES



中国航空学会





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ASSOCIATE MEMBERS



**SAAB**



Italian Aerospace Research Centre



**AIRBUS GROUP**



**VKI**

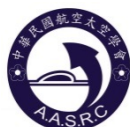


中国航空研究院  
Chinese Aeronautical Establishment



**HONDA**  
The Power of Dreams

**MUNICH AEROSPACE**



**POLL AEOSCIENCES**







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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY

ORGANISATION  
COOPERATIONS





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY **ORGANISATION**  
CYCLE TO A CONGRESS

Decision of venue of the Congress: 4 years prior (2012 for 2016)

## Odd year (e.g. 2015)

- February: Call for Papers
- April: Proposals for Congress Venues +5 years (e.g. 2020)
- May: EC Meeting
- September: PC Meeting
- November: Acceptance of authors
- December: Agreement signed

## Even year (e.g. 2016)

- February: Letters to invited authors
- March: Release of the Preliminary Programme
- May: EC Meeting
- June: Paper Review
- September: Congress



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION  
CYCLE TO A CONGRESS

# ICA 2016

30<sup>th</sup> Congress of the  
International Council of the Aeronautical Sciences

**25** (Sun.) – **30** (Fri.) **September**, 2016

Daejeon Convention Center(DCC), Daejeon



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS TOPIC AREAS

Aircraft and System Integration  
Aerodynamics – CFD Methods and Validation  
Experimental Aerodynamics  
Basic Fluid Dynamics and Flow Control  
Applied Aerodynamics  
Materials issues, Fatigue and Damage tolerance  
Structural Analysis and Design, Structural Dynamics, Aeroelasticity  
Propulsion and Energy  
Flight Dynamic and Control (Control and Modeling)  
Flight Dynamics and Control (UAV & Flight Experiment related)  
Systems, Subsystems and Equipment  
Manufacturing and Supply Chain Management  
Air Transport System Efficiency  
Safety and Security  
Challenge of the Environment  
Operations and Sustainment



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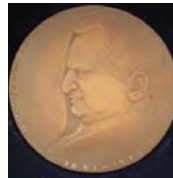
# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION  
ICAS AWARDS

## ICAS Daniel and Florence Guggenheim Award



## ICAS von Karman Award for International Cooperation in Aeronautics



## ICAS Award for Innovation in Aeronautics





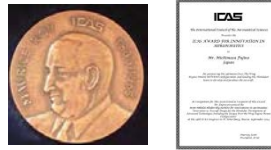


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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION  
ICAS AWARDS

## ICAS Maurice Roy Medal



## ICAS John J. Green Award



PC

## ICAS IFAR Award



## ICAS John Mc Carthy Student Award





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY

ORGANISATION

ICAS AWARDS

## ICAS Honorary Fellowship



## ICAS Award for Distinguished Service to ICAS





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

ICAS AWARDS

## ICAS Honorary Fellowship



F. J. Sterk	NL	1998	S. Kobayakawa	JP	2006
C. D. McCarthy	US	2000	G. M. Carlomagno	IT	2008
J. E. Green	UK	2002	J. Hefner	US	2008
B. J. Laschka	DE	2002	F. Abbink	NL	2010
R. H. Petersen	US	2002	B. Fredriksson	SE	2010
R.V. Harris	US	2002	R. Bengelink	US	2012
C. Dousset	FR	2002	I. Poll	UK	2012
J.-P. Marec	FR	2004	A. Gustafsson	SE	2012
			D. Müller Wiesner	DE	2014



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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

## THE VALUE OF ICAS

How do we know the latest issues and hot topics in global aeronautical sciences?

Who do we network to gain knowledge of the state-of-the-art developments?

What are the latest and greatest innovations and achievements by the aeronautical communities including industry, academia, and research laboratories?





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# INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES

MISSION OBJECTIVE HISTORY ORGANISATION

## THE VALUE OF ICAS

**ICAS provides a *global* support network to each of its Member and Associate Members. Through these societies it provides access to leading members of the world-wide aeronautical engineering community**

**Through its *global* meetings and programs ICAS provides an opportunity for students and young engineers to develop an international network of colleagues and peers**

**ICAS provides significant coverage of the financial risk for the local society involved in the sponsorship of a biennial Congress**





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ICAS currently serves as the only world-wide supernational organization to representative aeronautical engineering professional societies and associated organizations and their members in 32 countries







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