International Conference on **More Electric Aircraft**

Bordeaux, ENSEIRB-MATMECA, February 3-4, 2027

The transition to more electric aircraft, driven by the strong goal of reaching net-zero carbon emissions for civil aviation by 2050, is a growing challenge for industry and society. Such an evolution towards greener aviation requires pushing the limits of conventional approaches and carrying out transformations leading to new vehicle configurations with an innovative propulsion system, new energy sources and efficient energy management. New research programs in Europe and beyond offer new hybrid, all-electric, hydrogen, turboelectric, and potentially distributed concepts. The design of this future generation of more electrically powered aircraft raises challenges not only of structure and aerodynamics, but also of energy generation, storage and distribution (high voltage, high current, AC/DC, …), electrical architecture, thermal management, reliability, certification, sustainability and more broadly of ground facilities and impact on air transport. All these topics will be discussed at the conference.

Following the successful European conference held in Toulouse in February 2024, the organizers of MEA2027 invite representatives from industry, research and agencies to contribute to this new exciting edition in Bordeaux, and to share ideas, lessons learned, research results, and solutions related to technological developments as well as to future concepts associated to more/all electrical aircraft. Transport aircraft, light aircraft, urban mobility aircraft, unmanned aircraft, fixed wing as well as rotorcraft will be considered, whether they are for commercial, military or private use. Lessons to learn from other fields will also be addressed.

The 2-days program will mostly rely on presentations and highly interactive poster sessions, for which you are invited to submit abstracts referring to the following topics:

1. Architectures, design (OAD) and control of Hybrid/All Electric aircraft – including UAM
2. Propulsion systems for Hybrid/All Electric Aircraft
3. Hydrogen on board (fuel cell, tanks, turbogen set, …) - and associated challenges
4. Electrification of non-propulsive loads (Actuation systems, ECS, IPS, ...)
5. High electric power (High Voltage, High Current, AC/DC, …) systems
6. Superconductivity and cryogeny
7. Energy storage (batteries, inertia wheels, …), regeneration and management
8. Thermal management and cooling systems
9. Management of environmental challenges (EMC, radiation, altitude, vibration, shock, high temperature, …)
10. Reliability, Availability, Maintainability, Health monitoring and Safety for Hybrid/All Electric Aircraft
11. Certification for Hybrid/All Electric Aircraft
12. Ground and Inflight Testing for Hybrid/All Electric Aircraft
13. Life cycle assessment and environmental impact of Hybrid/All Electric Aircraft
14. Ground facilities (energy supply challenges, …) and impact on air transport
15. Lessons to learn from other fields (automotive, marine, railways, space, smart grid, renewable energy, …)
16. Sustainability (rare materials, semiconductors, …)

An industrial exhibition organized together with the conference will give opportunity to the audience to visit booths where labs and industry will highlight their latest achievements related to MEA.

Updated information and abstract submission on www.conference-mea.org

Deadlines and general information

Extended abstracts of at least 2 pages are to be uploaded on the website before **September 15, 2026** using the suggested template.
Following the review by the program committee members, the notification of acceptance will be forwarded to the main author in November.
The final version of the articles will be requested by **January 4, 2027**.

The program committee will recommend submissions to be presented at the oral sessions, jointly with invited papers. Other submissions will be presented in the poster sessions.

Program committee:

Co-chairs: **Régine Sutra-Orus** (Safran Electrical & Power), **Georg Möhlenkamp** (chesco ZWE, BTU, Germany)
Secretaries: **Carsten Döll** (ONERA, 3AF), **Stéphane Henry** (retired ArianeGroup, 3AF)

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Organizing committee:

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SEE: Société de l'Electricité, de l'Electronique et des technologies de l'information et de la communication
www.see.asso.fr

3AF: Association Aéronautique et Astronautique de France
www.3af.fr