



## **Brains & Planes**

### **Science Informing Practice, Practice Informing Science**

#### **Invitation and call for papers for the 35<sup>th</sup> Conference of the European Association for Aviation Psychology (Wyndham Grand, Athens, Greece, 23<sup>rd</sup> – 26<sup>th</sup> September 2024)**

The Scientific Committee of the European Association for Aviation Psychology (EAAP) is excited to announce the **CALL FOR PAPERS** for the next biannual EAAP conference. The conference will be held in Athens, Greece, from **23<sup>rd</sup> - 26<sup>th</sup> September 2024**. This follows the great success of the conference held in Gibraltar in September of 2022.

The conference theme **“Brains & Planes: Science Informing Practice, Practice Informing Science”** draws on the obvious but important link between human factors, psychology and aviation and on the importance of strengthening bonds between academia and practice. However, it also draws on the ongoing technological revolution, specifically the profound impact of Artificial Intelligence (AI) across various facets of our work, lives and more specifically the aviation sector.

As with so many other industries, aviation is gradually embracing this scientific revolution using it to address various civil and military challenges such as increased air traffic and the recent rise of strategic threats. AI may also be able to help us enhance cockpit and ATM functionalities for improved safety and ease of operations. Irrespective of the future applications, it is imperative that AI, and more generally technical solutions, are characterised by predictability, transparency, and beneficial outcomes. The shift however, from human-human teams to human-AI teams means a rise in complexity. And this turn draws our attention to the specific human factors needs linked to the introduction of AI.

The forthcoming EAAP conference presents a unique platform for us to delve into these topics. We will however also explore more conventional yet equally significant subjects in all relevant aviation domains, from development and maintenance to the operators themselves. We invite you to join us in this comprehensive exploration of current and future challenges that define the ever-evolving aviation landscape.

#### **Goals & Target Audience**

EAAP is committed to ensuring high quality scientific contributions. We would like to invite students and specialists from universities and research & development organisations to present their research. At the same time, we would like to invite key stakeholders and practitioners to not only take part, but also to exchange both their experience and their studies.

Individuals and/or teams from universities, research institutions, airlines, air forces/military organisations, air navigation service providers, airports, manufacturers, maintenance facilities, regulators, bureaus of air safety investigation, regulatory authorities, aeromedical examiners, and any others in the aviation system are invited to submit an abstract for a scientific paper or poster.

## Contributions

Authors are invited to submit their contributions within the scope of the EAAP conference. All contributions must be of high quality, original, and must not have been previously published or intended for publication elsewhere. All abstracts and full papers will be reviewed by the scientific committee, including at least two independent reviewers.

Please note that submission and presentation are not required for participation.

## Abstract Submissions

Abstracts should be submitted by the final deadline of **1<sup>st</sup> March 2024**. You will be able to choose whether you would like to present your abstract as a poster or as an oral presentation. Note that only high quality abstracts will be selected for oral presentation.

The tradition of the Best Poster Award will be continued! This award will be presented at the end of the conference.

Please submit using the EAAP online submission system: <https://conference.eaap.net/submit.html>

## Full Paper Submissions

Authors of abstracts selected for oral or poster presentation will be invited to submit a full paper. If accepted, the full paper will be published in the conference proceedings. The 2 best conference papers will be proposed for manuscript submission to the Aviation Psychology and Applied Human Factors (APAHF) journal, the official organ of the EAAP.

Use of the abstract and full paper standard format is required. More details on this can be found on the conference website: <https://conference.eaap.net/papers.html>

## Topics of Interest

Topics of interest include, but are not limited to:

### Technological solutions and artificial intelligence

- Human-machine interface
- Automation, Human - AI teaming
- Unmanned and manned aviation
- New technologies design
- SiPO/eMCO

### Human performance and safety

- Fatigue & stress management
- Physiological and neurophysiological measures
- Aging of aviation workers (pilot, ATCOs...)
- Learning from incidents and accidents

## Diversity, equality and inclusion (DEI) in aviation

- Emerging trends, challenges, and opportunities in the pursuit of DEI in aviation
- Identifying barriers to entry, career advancement, and retention for underrepresented groups
- Promoting diversity and cultural competence in a global industry
- Strategies for creating inclusive and welcoming work environments
- Strategies for cultivating a more diverse leadership in aviation
- Initiatives promoting gender equality and opportunities for women in aviation

## Aviation mental health & wellbeing

- (Peer) support programmes
- Psychological risk assessment
- Random alcohol & drug testing
- Mental health & cognitive assessment
- Incidents, accidents and psychological trauma
- Ethics

## Safety culture and organizational learning

- Safety climate assessment
- Safety culture development
- Investigation of incidents and accidents
- Human Factors taxonomies

## Selection and training

- Personality/aptitude/attitude testing
- Evaluation and validation of selection
- CRM/TRM/MRM training effectiveness
- Evidence-based/ competency-based training

## Long-term pandemic effects

- Psychological effects of the pandemic on aviation personnel
- Global solutions for limiting infection in aviation
- Skill degradation and retention
- Other impacts of Covid-19 on aviation

## Half-day Workshops

After last years success we would again like to invite you to submit your proposals for half-day interactive workshops. The workshops can be targeted towards starters in the field of aviation but also towards experienced professionals wanting to enhance their skills on specific topics. For more information on this, please contact [conferences@eaap.net](mailto:conferences@eaap.net).

## EAAP Student Scholarship

EAAP is delighted to be able to offer financial support for students wishing to attend EAAP35. There will be scholarships available to students to partly fund their travel, accommodation and conference fees. Interested aviation psychology and

human factors students should send a letter of motivation and their CV to [conferences@eaap.net](mailto:conferences@eaap.net).

### Important Dates

- 1<sup>st</sup> March 2024 – abstract submission deadline
- 15<sup>th</sup> April 2024 – abstract acceptance
- 15<sup>th</sup> August 2024 – full paper submission
- 15<sup>th</sup> September 2024 – registration deadline

### Conference Venue

EAAP35 will be held at the Wyndham Grand in Athens, Greece. For travel and visa advice, please check our conference website:

<https://conference.eaap.net/venue.html>

### Conference Certificates

All participants will receive an electronic certificate of attendance stating (the actual days of) their participation.

### Conference Fees

Conference fees include all conference material, coffee breaks, lunch and the gala dinner. For details please check the 'fees' page on the EAAP conference website.

<https://conference.eaap.net/fees.html>

### Conference Programme

On Monday 23<sup>rd</sup> September 2024 workshops will be held, with the conference proper starting on Tuesday 24<sup>th</sup> and running until Thursday 26<sup>th</sup> September. The gala dinner will also be held on Thursday 26<sup>th</sup> September. A preliminary conference programme structure can be found on our website. The final programme will be available based on accepted abstracts.

<http://conference.eaap.net/program.html>

### Registration

All registrations must be carried out via the conference website. You can register for the conference using the link below. You will not have to pay your conference fees immediately, but you will receive an invoice from the EAAP treasurer after your registration. Special offers and discounts can be found on:

<https://conference.eaap.net/fees.html>

Please note that early-bird fees are offered for registrations and payments before 31<sup>st</sup> May 2024.

<http://conference.eaap.net/register.html>

### Scientific Committee

Mickaël Causse, affiliated with ISAE-SUPAERO in Toulouse, will lead the Scientific Committee. The Committee will review and evaluate abstracts and full papers, for both the conference programme and the subsequent conference proceedings.

The scientific committee plays an important role in the decision-making process for potential contributions and reviews all abstracts and full papers.

Scientific committee:

- Dr. Julia Behrend, Air France, FR
- Prof. Robert Bor, CAP, UK
- Prof. Mickaël Causse, ISAE-SUPAERO, FR
- Prof. Wen Chin-Li, Cranfield University, UK
- Dr. Nicklas Dahlstrom, Lund University, SE
- Dr. Jonathan Deniel, ISAE-SUPAERO, FR
- Prof. Don Harris, Coventry University, UK
- Dr. Antonio Hidalgo-Munoz, Salamanca University, ES
- Dr. Jean Paul Imbert, ENAC, FR
- Prof. Peter Jorna, Cranfield University, UK
- Dr. Ioana Koglbauer, Airbus Defence and Space, DE
- Prof. Harald Kolrep, HMKW, DE
- Prof. Monica Martinussen, Norges Arktiske Universitet (UiT), Norwegian Defence University College, NO
- Dr. Nadine Matton, ENAC, FR
- Dr. Damien Mouratille, ENAC, FR
- Prof. Randall Mumaw, NASA, US
- Dr. Astrid Oehme, Human Factors Consult, US
- Dr. Michaela Schwarz, michaela-schwarz.com, AT
- Dr. Matthew Thomas, Westwood-Thomas Associates, AU
- Prof. Alex de Voogt, Drew University, US
- Dr. Dimitrios Ziakkas, Purdue University, US
- Prof. Pinar Unsal, Istanbul University, TR

We look forward to receiving your abstracts and papers.

### See you in Athens!

Your EAAP Board.