

**Preliminary Program subject to changes (last update: 07/05/2023)**

# **11<sup>th</sup> International Summer School on Aviation Psychology & Human Factors**

**ISAP'23: 3-7 July 2023**

**Inter-modal transport systems:  
interdisciplinary learning & cooperation**

FH JOANNEUM Graz, Alte Poststraße 147, 8020 Graz

## **Monday, 3<sup>rd</sup> July 2023: Intermodal Transport Systems/ Pilot Training**

**10:00-12:00**

**AAPA Registration Desk**

Austrian Aviation Psychology Association

Coffee / Meet & Greet / Soft opening

**12:00-13:00**

**Lunch (Taste'njoy powered by ISS)**

**13:00-13:30 (AP.147.HS.005)**

### **ISAP'23 OPENING CEREMONY**

Dr. Margit Kanka (AAPA Chair)

Dr. Michaela Schwarz (ISAP'23 Organising Committee)

Dipl.-Psych. Gunnar Steinhardt (EAAP President)

Dr.-Ing. Holger Friehmelt (Head of Institute Aviation, FH JOANNEUM)

**13:30-14:30**



### **KEYNOTE 1**

**New Mobility Systems**

Prof. Peter Jorna (NL)

**14:30-15:00**

**Coffee Break**

**15:00-17:30 (AP.147.HS.005)**

### **SESSION 1: PANEL DISCUSSION**

**Intermodal Transport Systems**

Facilitated by AAPA, with representatives from:

1. Academia
2. Aviation/Road
3. Air Operations
4. Mobility
5. Rail

**15:00-17:30 (AP.147.HS.006)**

### **SESSION 2: WORKSHOP**

**Kicking Tires and Lighting Fires –  
Understanding the Tribe Called “Pilots”**

Gunnar Steinhardt (EAAP, NL)

Nicklas Dahlstrom (Emirates Airlines, UAE)

[Details see page 6-7](#)

**19:00 WELCOME RECEPTION @NOVA- AIR Aircraft Hotel Graz**

Short bus/ taxi ride to Fischeraustrasse 22, 8051 Graz; welcome drink & finger food included!

<https://www.novapark.at/novair/>

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### Tuesday, 4th July 2023: HMI Design / Usability Engineering

08:00-09:00

AAPA Registration Desk

Coffee / Meet & Greet

Austrian Aviation Psychology Association

Session Chair: tbc

09:00-10:00 (AP.147.HS.005)



#### KEYNOTE 2

100 rules to design the perfect human machine interface in vehicles  
(working title)

Peter Rößger (beyond HMI, DE)

10:00-10:30

Coffee & Posters

To submit a scientific poster, please send an English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at)

10:30-12:00 (AP.147.HS.005)

#### SESSION 3

Artificial intelligence and artificial networks  
on crew monitoring

Oliver Daum (German Air Force, DE)

Andreas Schmidt (German Air Force, DE)

10:30-12:00 (AP.147.HS.006)

#### SESSION 4

Optimizing a multimodal journey

Theodor Zeh (Frequentis, AT)

12:00-13:00

Lunch (Taste'njoy powered by ISS)

13:00-14:30 (AP.147.HS.005)

#### SESSION 5

Current R&D projects at FH JOANNEUM Graz  
Holger Friehmelt (AT)

13:00-14:30 (AP.147.HS.006)

#### SESSION 6

Flying the fastest and largest aeroplanes:  
interview with a Saab Draken & Boeing 777  
pilot

Eugen Pongratz (AT)

Michaela Schwarz (AT)

14:30-15:00

Coffee & Posters

To submit a scientific poster, please send an English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at)

15:00-17:30

#### OPERATIONAL VISITS

Visits are organised in small groups (max. 12 / visit), subject to registration, first in first served.

- [FH JOANNEUM Aviation Laboratory](#)
- [Gate 08 – Flight & Racing Simulation Centre Graz](#)
- [Austrian Aviation Museum \(Graz-Thalerhof\)](#)
- Ground Handling Services (Airport Graz)
- [Air Traffic Control Tower \(Austro Control, GmbH\) - tbc](#)

19:00 After Work Drinks & Dinner (own expense)

Restaurant reservation for 30 pax in a local restaurant

## Preliminary Program subject to changes (last update: 07/05/2023)

### Wednesday, 5th July 2023 – METHODS / TRAINING & SELECTION

08:00-09:00

**AAPA Registration Desk**  
Austrian Aviation Psychology Association

Coffee / Meet & Greet

**Session Chair: tbc**

09:00-10:00 (AP.147.HS.005)



#### KEYNOTE 3

**Aviation Psychology & Human Factors: Applied Methods and Techniques**

Ioana Koglbauer (Airbus Defense and Space GmbH, DE)

10:00-10:30

#### Coffee & Posters

*To submit a scientific poster, please send an English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at)*

10:30-12:00 (AP.147.HS.005)

#### SESSION 7

**Methods and techniques in the validation of innovative air-traffic management concepts**

Bernd Lorenz (EUROCONTROL, FR)

10:30-12:00

#### SESSION 8

**Pilot Selection in Turkey (working title)**

Deniz Kilicgedik-Sazak (SunExpress, TR)

12:00-13:00

**Lunch (Taste'njoy powered by ISS)**

13:00-14:30 (AP.147.HS.005)

#### SESSION 9 - WORKSHOP

**Introduction to Job Analysis in Aviation**

Jóhann Wíum (EAAP, IS)

13:00-14:30

#### SESSION 10 - WORKSHOP

**Training challenges in police helicopter pilots (Working title)**

Alfred Pritz (BMI, AT)

14:30-15:00

#### Coffee & Poster

*To submit a scientific poster, please send an English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at)*

15:00-17:30 (AP.147.HS.005)

#### SESSION 11 - WORKSHOP

**Introduction to Aviation Selection methods**

Jóhann Wíum (EAAP, IS)

15:00-17:30

#### SESSION 12 - WORKSHOP

**Hypoxic training to prevent risks in flying-challenges of measuring human factors**

Cynthia Schinkel (German Air Force, DE)

Rebecca Fill Giordano (hr+ in cooperation with AMST Systemtechnik GmbH, AT)

**19:00 TOWN HALL RECEPTION with the Mayor Graz (drinks included)**

Short tram ride or 30min. walk to city centre (Hauptplatz 1, 8010 Graz)

## Preliminary Program subject to changes (last update: 07/05/2023)

### Thursday, 6th July 2023 – MAINTENANCE / SAFETY MANAGEMENT

08:00-09:00

**AAPA Registration Desk**  
Austrian Aviation Psychology Association

Coffee / Meet & Greet

**Session Chair: tbc**

09:00-10:00 (AP.147.HS.005)

#### KEYNOTE 4



**Maintenance Human Factors in Safety Management (working title)**  
John deLeeuw (USA)

10:00-10:30

#### Coffee & Posters

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10:30-12:00 (AP.147.HS.005)

**SESSION 13 - PANEL DISCUSSION:**  
**Integrated Maintenance Systems**  
Facilitated by the European Aviation  
Maintenance Training Committee (EAMTC)

With representatives from:

1. Academia
2. Aviation
3. Maintenance
4. Training
5. UAV

*Details see page 6-7*

10:30-12:00

**SESSION 14**  
**Cognitive neuroscience and safety research**  
Julia Behrend (FR)

12:00-13:00

**Lunch (Taste'njoy powered by ISS)**

13:00-14:30 (AP.147.HS.005)

**SESSION 15 - WORKSHOP**  
**Competency-based training and assessment  
in maintenance and the role of transversal  
competencies**

Lydia Kes (NL)  
Ben Pietersma (NL)

13:00-14:30

**SESSION 16 - WORKSHOP**  
**Human Factors in Aircraft Accident  
Investigation from an Airports perspective  
(working title)**

Ryan Antoon (USA)

14:30-15:00

#### Coffee & Poster

*To submit a scientific poster, please send an English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at)*

15:00-17:30 (AP.147.HS.005)

**SESSION 17 - WORKSHOP**  
**Maintenance in times of fleet grounding-  
learning from Covid**

Hans Mayer (NL)  
Werner Kiemayer (easyJet Europe, AT)

15:00-17:30

**SESSION 18 - WORKSHOP**  
**Just Culture Training in Rescue Services  
(working title)**

Don-Felix Ryzek (DE)  
Michaela Schwarz (AT)

19:00 After Work Drinks & Dinner (own expense)

Restaurant reservation for 30 pax in a local restaurant

## Preliminary Program subject to changes (last update: 07/05/2023)

### Friday, 7th July 2023 – Space Psychology & HF/ Regulations

08:00-09:00

**AAPA Registration Desk**

Austrian Aviation Psychology Association

Coffee / Meet & Greet

**Session Chair: Michael Lehner-Morawec (Austro Control, GmbH, AT)**

09:00-10:00 (AP.147.HS.005)



#### KEYNOTE 5

**Aviation Psychology and Human Factors in the aviation regulatory framework**

Jóhann Wíum (EAAP, IS)

10:00-10:30

#### Coffee & Posters

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10:30-11:15 (AP.147.HS.005)

#### SESSION 19

**Aviation- vs. Space Psychology: responsibilities and duties**

Vladimir Ivkovic (USA)

Margit Kanka (AT)

10:30-11:15

#### SESSION 20

**EASA PART MED – Comprehensive Mental Health Assessment & Pilot Peers Support Programs**

Christian Czihak (AeMC Salzburg, AT)

Alois Farthofer (AT)

Peter Beer (AT)

11:15-12:00 (AP.147.HS.005)

#### SESSION 21

**Methods & application in Space Psychology**

Vladimir Ivkovic (USA)

11:15-12:00

#### SESSION 22

**EASA Age 60 Rule: the role of the aviation psychologist and aeromedical examiner**

Christian Czihak (AeMC Salzburg, AT)

Peter Metzger (Austro Control, AT)

12:00 -12:30 (AP.147.HS.005)

#### Wrap up and close of ISAP'23

Dr. Michaela Schwarz/ Margit Kanka (AAPA Chairs)

Dipl.-Psych. Gunnar Steinhardt (EAAP President)

Dr.-Ing. Holger Friehe (Head of Institute of Aviation (Master) FH JOANNEUM)

12:30 LUNCH/ DEPARTURE

**Lunch (Taste'njoy powered by ISS)**

For details on registration fees, please go here: <https://aapa.or.at/ISAP23>

What is included in my registration fee?

- Coffee breaks
- Full lunch (different plates, salad bar, desert, including one soft drink)
- Welcome reception (Monday)
- Entrance fees for operational visits (Tuesday)
- Town hall reception (Wednesday)
- Personnel cost for conference rooms (security, technician, cleaning)
- Travel / accommodation cost speakers/ lecturers/ panellists

Persons, who are exempted from registration fees, pay a **basic daily fee of 25€** to cover the proportionate cost for catering, conference room and staff.

## **Panel Discussion 1 - Intermodal Transport Systems**

This panel will be dedicated to discussing new and innovative ideas on how to better integrate regional aviation in other transport systems such as rail-/tram-, road-/bus transport and unmanned aircraft systems. Selected representatives from transport system industries will be sharing their ideas and vision around the following burning questions:

- How can transport systems be integrated to ensure seamless first and last mile connectivity?
- How can short-haul flights be subsidized with rail and bus services? (air meets rail, bus shuttle services etc.)
- How will flying cars/ air taxis/ drone deliveries influence passenger mobility?
- How can passengers services be improved (home check-in & face recognition security, flexible connection planning depending on delays, integrated ticketing, electronic bag tags/ never q again etc.)

1. Academia: [Holger Friehmelt \(FH JOANNEUM, Head of Aviation Institute\)](#)
2. Aviation/Road: [Peter Jorna \(Former Board Member Pal-V\)](#)
3. Air Operations: [Isabel Doppelreiter \(Female Pilot's Working Group, IFALPA\)](#)
4. Mobility: [Günter Penetzdorfer \(Denkfabrik Mobilität\)](#)
5. Rail: [Frank Michelberger \(Head of Carl Ritter von Ghega Institute, FH St. Pölten\)](#)

If you have an innovative idea related to the topics above or a question that you would like to pose live to the panel, please send an email to [isap@aapa.or.at](mailto:isap@aapa.or.at) .

## **Panel Discussion 2 - Integrated Maintenance Systems**

Panel 2 will be focusing on increasing aviation safety by integrating maintenance systems. The use of integrated maintenance software, predictive maintenance services and

- How to revolutionize the airport experience for passengers and airlines with a connected aviation ecosystem?
- Can predictive maintenance really reduce maintenance-related delays and unscheduled maintenance events?
- Could an aircraft hangar also serve as train, train or bus depot/ workshop?
- How to maintain competence of future aircraft maintenance technicians and engineers?
- How to digitalize critical infrastructure?

1. Academia: [Holger Friehmelt \(FH JOANNEUM, Head of Aviation Institute\)](#)
2. Aviation: [Hans-Jörg Lotter \(Zimex Aviation, AT\)](#)
3. Maintenance: [Hans Mayer \(European Aviation Maintenance Training Committee\)](#)
4. Training: [Lydia Kes \(MBO College Airport, Rocva NL\)](#)
5. UAV: [Matthias Fiegl \(Smart Digital Austria\)](#)

If you have an innovative idea related to the topics above or a question that you would like to pose live to the panel, please send an email to [isap@aapa.or.at](mailto:isap@aapa.or.at) .

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## ISAP'23 – List of Scientific Posters

1. Usability of Touch Displays in Aircraft (Dr. Andreas Schmidt, German Airforce, Germany)
2. Traffic display concepts for drone pilots (Markus Peukert, TU Darmstadt, Germany)
3. A European Competency Framework for Aviation Psychologists and Human Factors Specialists in Aviation (Michaela Schwarz, former EAAP President, Austria)
4. The Latin American Aeronautical Community Perception on Psychology (Mónica, Gómez Caniella, ULAPA, Uruguay)



**Call for Scientific Poster Presentations** — ISAP'23 invites you to submit your original or applied and unpublished research in Aviation Psychology and Human Factors related to the conference theme below – submit a short English abstract to [isap@aapa.or.at](mailto:isap@aapa.or.at) by 31 May 2023. All info online!

**Multi-modal transport systems:  
Interdisciplinary  
learning & cooperation**

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on Aviation Psychology  
3–7 July 2023, Graz, Austria

**The ISAP'23 Organising Committee is looking forward to welcoming you in Graz!**

Any queries should be sent to [isap@aapa.or.at](mailto:isap@aapa.or.at)

