

AVIATION EXPO 2023 – Aviation Industrial Forum
The 2nd International Conference on Aviation Future: Challenges
and Solutions 2023

11-13 October 2023

Agenda

Venue: Tan Son Nhat Pavillon, 02 Hoang Van Thu Street, Ward 9, Phu Nhuan District, Ho Chi Minh City, Vietnam
(Fourth Floor)

Wednesday, October 11 (Vietnam time)

08:30 - 11:30

Conference Registration

Location: Tan Son Nhat Pavilion Convention Center

09:30-10:20

Opening remarks

Location: Diamond Lobby

Dancing performance

Welcome remarks from Chairman of Vietnam Aviation Academy

Ass. Prof. Dr. Tran Hoai An - VAA - Chairman of Vietnam Aviation Academy Council

Welcome remarks from Airbus

Ms. Hoang Tri Mai, Airbus Chief Representative in Vietnam

Welcome remarks from a representative of Diplomatic Delegations

Gregory Harris, Principal Commercial Officer - U.S. Commercial Service – U.S. Consulate General

Welcome remarks from Organizing Committee

*Mrs. Luong Thi Xuân – Founder & CEO - Vietnam Aviation Exhibition JSC
(VAE & VAA & WORMs University)*

10:20-10:30

Ribbon Cutting Ceremony

10:30-11:00

KEYNOTE PRESENTATIONS

Location: Diamond Lobby

MC: Prof. Dr. Richard Klophaus

Worms University of Applied Sciences, Germany

Forecast and challenges for the aviation industry in the next 10 years using big data

Mr. Anthony Lim, Sales Director, APAC, Aviation Week, USA

Sustainable development of the civil aviation industry – The commitment from Vietnam

*Mr. Nguyen Phuoc Thang – Director of Science, Technology and Environment Department
– Civil Aviation Authority of Vietnam (CAAV)*

11:00-11:15

Signing ceremony

- Signing ceremony for contracts between Vietnam Aviation Academy and Vietnam Aviation Expo
- Signing ceremony for contracts between Vietnam Aviation Expo and partners

11:15-11:40 - VIP TOUR

11:40 – 13:00: Lunch on site

13:00-14:30

Keynote speeches

Location: Diamond Lobby

Moderator: Prof. Dr. Tobias Grosche, Worms University of Applied Sciences, Germany

Trends and Challenges in Aviation Industry

Ass. Prof. Dr. Seck Tan, Singapore Institute of Technology

Operational Digital Twin Technology for Advanced Air Mobility, AAM

Prof. Dr. Jae-Woo Lee, Konkuk University, South Korea

Air Traffic Management: Challenges and Solutions

Prof. Dr. Frank Fichert, Worms University of Applied Sciences, Germany

14:30-15:00: **Tea break**

15:00-16:30

Keynote speeches

Location: Diamond Lobby

Moderator: Prof. Dr. Christoph Klingenberg, Worms University of Applied Sciences - Germany

Airport development to facilitate the demand of country and the region – Vietnam showcase

Mr. Dinh Viet Thang – Director General of Civil Aviation Authority of Vietnam

Enhancing performance through support from global airport network

Mr. Edouard Marcus - Group ADP, France

Sustainable airport design and passenger experience (Online)

Ms. Inna Ratieva – Business Development Director – NACO – The Netherlands

17:00-21:00

GALA DINNER

SCIENTIFIC CONFERENCE – AFCS 2023

Thursday, October 12 (Vietnam time)

08:30-10:30

Parallel Session 1

Session 1A

Engineering and Maintenance

Session chair: Hoang Nguyen, Vietnam Aviation Academy, Vietnam & Singapore Institute of Technology, Singapore

□ 08:30-10:30

Room: Diamond 2

PIND-UAM: Physics-Informed Neural Dynamics of Boxed-Wing eVTOL Aircraft for UAM Vehicle Digital Twin"

Minseok Jang, Jeongseok Hyun, Taeho Kwag, Chan Gwak, Tuan Anh Nguyen & Jae-Woo Lee (Konkuk University, South Korea)

Structural development of hydrogen valve for short-range flying vehicles: structure implementation for additive fabrication, post-processing, and in-house fatigue tests
Thanh Binh Cao (Vietnam Aviation Academy, Vietnam), *Slawomir Kedziora (University of Luxembourg, Luxembourg) & Tan Dung Le (Vietnam Aviation Academy, Vietnam)*

Characteristics of the turbulent flow around a multi-element airfoil under the effects of a wavy ground

Dinh Thang Nguyen, Duy Khanh Tran, Van Quang Anh Vo & Van Luc Nguyen (Vietnam Aviation Academy, Vietnam)

Towards autonomous self-bending 4D printed structures

R. Delbart (The University of Edinburgh, the UK), L. Roumy (CNRS-ENSMA-Université de Poitiers, France) C. Robert (The University of Edinburgh, the UK), TQ. Truong Hoang (ESTACA, ESTACA'Lab – Laval, France) F. Touchard, Damien Marchand (CNRS-ENSMA-Université de Poitiers, France) & F. Martinez-Hergueta (The University of Edinburgh, the UK)

Session 1B

Demand analysis – Air Transport and Tourism

Session chair: Adam Voak, Vietnam Aviation Academy, Vietnam

□ 08:30-10:30

Room: Platin

Research on factors affecting the behavior of Vietnamese customers choosing AGODA application to book Air tickets online

Huynh Quoc Tuan (Dong Thap University, Vietnam)

Passengers Tendency of Variety Seeking for International Flights in the Post-COVID 19 Pandemic

Syed Far Abid Hossain (BRAC University, Dhaka), **Md. Rashed** (Dalian University of Technology, China), **Mithila Zaman Priasa**, **Shafiqua Nawar**, **Tasmia Islam Mowrin** (BRAC University, Dhaka) & **Wong Chee Hoo** (Inti International University, Malaysia)

Research on factors affecting the decision to choose an Airline for travel of individual Vietnamese customers.

Tran Ngoc Tu (Sai Gon University, Vietnam)

The influence of destination images, emotional value on the satisfaction and return intention of visitors in Quy Nhon City

Huynh Vu Chi (Ho Chi Minh University of Economics and Finance, Vietnam) & **Ha Nam Khanh Giao** (Vietnam Aviation Academy, Vietnam)

10:30-11:00

Tea break

11:00-12:30

Session 2

Air traffic management

Session chair: Tobias Grosche, Worms University of Applied Sciences, Germany

□ 11:00-12:30

Room: Diamond 2

Applied system dynamics in air traffic management at Tan Son Nhat airport

Hien Ho Thi Vu (Vietnam Aviation Academy, Vietnam) & **Hieu Le Thi Hong** (Ho Chi Minh City University of Technology, Vietnam)

Capacity planning in electrified Urban Air Mobility by simulating a digital twin of airports and airspace

Branko Bubalo (GAP Project, Germany)

How ANSP mergers might affect traffic distribution and congestion

Thi Thuy An Vo & **Frank Fichert** (Worms University of Applied Sciences, Germany)

12:30-13:30

Lunch onsite

13:30-15:30

Parallel Session 3

Session 3A (Hybrid session)

Sustainability and SAF

Session chair: Christoph Klingenberg, Worms University of Applied Sciences, Germany

□ 13:30-15:30

Room: Diamond 2

Voluntary carbon offsets in sustainable aviation research: A bibliometric analysis

Nguyen Thi Cam Le (Vietnam Aviation Academy, Vietnam)

Sustainable Aviation Fuel (SAF): From legislative requirements to action by air operators

Thanh Huyen Vuong (University of Technology Sydney, Vietnamese Australian Scholars and Experts Association, Australia) & Long D. Nghiem (University of Technology Sydney, Australia)

The pathway to zero-net emission in aviation - How much can we rely on Sustainable Aviation Fuel (SAF)? (online)

Adeline Montlaur, Jovana Kuljanina (Universitat Politècnica de Catalunya, Spain) & Emir Ganić (University of Belgrade, Serbia)

Session 3B

Operations and Safety

Session chair: Richard Klophaus, Worms University of Applied Sciences, Germany

□ 13:30-15:30

Room: Platin

Develop a simulator system of specialized ground vehicles in restricted areas in aerodromes powered by Virtual Reality

Thuan Luu Van, Hien Ho Thi Vu & Vuong Pham Minh (Vietnam Aviation Academy, Vietnam)

Analysis and evaluation of aerodynamic characteristics of super-heavy drone

Huu Vinh Quach, Van Thuan Luu, **Minh Vuong Pham** (Vietnam Aviation Academy, Vietnam), Song Thanh Thao Nguyen (Ho Chi Minh City University of Technology, Vietnam) & Le Quang Dang (Basic Scientific Faculty, Foreign Trade University, Vietnam)

The mediating effect of safety management system on the relationship between safety culture and safety performance in airline industry-An experimental study in Vietnam

Hoang Thi Kim Thoa (Vietnam Aviation Academy, Vietnam)

Virtual Reality in aircraft maintenance: application to an Airbus aircraft system

Nguyen The Hoang (Vietnam Aviation Academy, Vietnam, Singapore Institute of Technology, Singapore), Luu Van Thuan, Nguyen Minh Hien, Nguyen Thi Hai Hang (Vietnam Aviation Academy, Vietnam) & Seck Tan (Singapore Institute of Technology, Singapore)

15:30-16:00

Tea break

16:00-17:30

Session 4 (Hybrid session)

Cargo and Logistics

Session chair: Tran Thi Thai Binh, Vietnam Aviation Academy

□ 16:00-17:30

Room: Diamond 2

Examining the impact of air cargo growth on poor Vietnamese rural and urban households (online)

Eric Tchouamou Njoya (University of Huddersfield, The UK), Peter Forsyth (Monash University, Australia), Hans-Martin Niemeier (Bremen University of Applied Sciences, Germany) & Alexandros Nikitas (University of Huddersfield, The UK)

Inter-Provincial transportation of goods from Ho Chi Minh City in the context of the circular economy development

*Thi Thu Thao Huynh, Huynh Nhu Sao Doan, **Thi Thu Ha Do** & Tan Dat Nguyen (Ho Chi Minh City University of Economics and Finance, Vietnam)*

Factors affecting the development of a logistics service chain for agricultural products in the Mekong Delta

***Loi Thang Nguyen** (FPT University, Vietnam), Ho Thi Thu Hoa (International University, Vietnam National University Ho Chi Minh City) & Nguyen Thanh Danh (Vietnam Logistics and Development Institute)*

SCIENTIFIC CONFERENCE AFCS 2023

Friday, October 13 (Vietnam time)

08:30-10:30

Parallel Session 5

Session 5A

Airline market developments

Session chair: Achim I. Czerny, The Hong Kong Polytechnic University, Hong Kong

□ 08:30-10:30

Room: Diamond 2

Breaking economies of scale: commercial and operational viability of all-electric aircraft as regional hub feeder

***Christoph Klingenberg** (Worms University of Applied Sciences, Germany) & Jens Hujer (Heilbronn University of Applied Sciences, Germany)*

Factors influencing air passenger choice in ASEAN region

***Tran Thi Thai Binh** (Vietnam Aviation Academy, Vietnam), Eric Milliot (Université de Nantes, France)*

Airline Market Concentration in Europe

***Tobias Grosche** (Worms University of Applied Sciences, Germany)*

Session 5B

Marketing and LCC

Session chair: Thanh Huyen Vuong, University of Technology Sydney, Vietnamese Australian Scholars and Experts Association, Australia

□ 08:30-10:30

Room: Platin

The Impact of Corporate Social Responsibility on Customer Loyalty through Brand Trust and Brand Reputation: Evidence from Low-Cost Airlines

*Bui Nhat Vuong, Adam Voak (Vietnam Aviation Academy, Vietnam), **Syed Far Abid Hossain** (BRAC Business School, Bangladesh), Nguyen Tan Phuoc, Lam Hoang Dang & Lam Hoang Dang (Tay Do University, Vietnam)*

Intention to buy cheap airline tickets of Ho Chi Minh City consumers

***Tran Dieu Hang** & Nguyen Thi Ha Giang (Vietnam Aviation Academy, Vietnam)*

An Empirical Examination of the Impact of eWom Information on Consumers' Airline E-ticket Purchase Intention. Mediating Role of eWom Adoption

Huỳnh Đình Lê Thu (*An Giang University, Vietnam*), **Phạm Trung Tuấn**, (*University of Economics and Law, Vietnam*) & **Nguyễn Thị Diễm Hằng** (*National University Ho Chi Minh, Vietnam*)

Factors affecting the satisfaction of ground lounge service quality for business class priority passengers at Van Don International Airport, Quang Ninh Province, Vietnam

Nguyen Cong Hoan (*Vietnam Aviation Academy, Vietnam*), **Vu Van Vien** (*Ha Long University, Vietnam*) & **Nguyen Thi Ngoc Diep** (*Ho Chi Minh City Open University, Vietnam*)

10:30-11:00

Tea break

11:00-13:00

Parallel Session 6

Session 6A (Hybrid Session)

Air transport management

Session chair: TQ. Truong Hoang, ESTACA, ESTACA'Lab – Laval, France

□ 11:00-13:00

Room: Diamond 2

Key issues in air transport management research: A bibliometric analysis

Richard Klopheus (*Worms University of Applied Sciences, Germany*)

How Customer Experience Promotes Customer Loyalty through Passenger Satisfaction: Does Brand Reputation Matter (**Online**)

Bui Nhat Vuong (*Vietnam Aviation Academy, Vietnam*), **Hasanuzzaman Tushar** (*International University of Business Agriculture and Technology, Bangladesh*), **Adam Voak** (*Vietnam Aviation Academy, Vietnam*), **Dao Duy Huan & Nguyen Tien Dung** (*Nam Can Tho University, Vietnam*)

The Success of Gulf Carriers Explained: The Case of the Australia-UK Airway

Zhang, H. (*HK PolyU*), **Bontemps, C.** (*TSE*), **Chen, R.** (*Comac*), **Czerny, A. I.** (*HK PolyU*), **Lei, Z.** (*Swinburne University of Technology*), **van Ommeren, J.** (*VU Amsterdam*)

Optimizing re-planning strategy regarding the airplane's rosters in case of disruption in airlines industry – the case of an airline in Vietnam

Nguyen Kim Thao (*Universite Paris Pantheon Sorbonne, France*), **Nguyen The Hoang** (*Vietnam Aviation Academy, Vietnam & Singapore Institute of Technology, Singapore*), **Jean Loup Richet** (*Universite Paris Pantheon Sorbonne, France*) & **Nguyen Hai Hang** (*Vietnam Aviation Academy, Vietnam*)

Session 6B

Human Resource Management and customer behavior in Aviation and Tourism

Session chair: Frank Fichert, Worms University of Applied Sciences, Germany

□ 11:00-13:00

Room: Platin

A Model of factors affecting Memorable Tourism experience at Smart Tourism Destination



Nguyen Pham Hanh Phuc (University of Finance) & Ha Nam Khanh Giao (Vietnam Aviation Academy, Vietnam)

From customer pressures into environmental performance – the mediating role of green HRM practices. A study from airway-company in Vietnam

Do Thi Thanh Truc, Ho Nu Tra Giang & Nguyen Quynh Nga (Vietnam Aviation Academy, Vietnam)

Beyond the price: Unlocking the power of service employee self-efficacy in building low-cost airline loyalty in emerging countries

Nguyen Ngoc Duy Phuong (Vietnam National University Ho Chi Minh City, International University, Vietnam), Nguyen Hong Huan (Maharishi International University, USA) & Nguyen Dang Tram Anh (International University, Vietnam)

Aviation employees' innovative work behavior: The roles of servant leadership, job crafting and job autonomy

Hoang Bao Vo (Vietnam Airlines, Vietnam) & Hoang Thi Kim Quy (Vietnam Aviation Academy, Vietnam)

13:00-14:00

Lunch