

**INAIR 2015 Conference  
Provisional Program**

**12th, 13th November, Holiday Inn  
Amsterdam Arena Towers, The Netherlands**

**DAY 1 : Thursday, 12<sup>th</sup> November**

**8:00-9:00 Registration & Coffee**

**9:00-9:20 Welcome speech: Geert Boosten, Aviation Academy, AUAS & Antonín Kazda,  
University of Žilina**

**9:20 - 10:40 Keynote Session I. (Moderator: Geert Boosten)**

**Colin Meckiff, EUROCONTROL, France**

*“Research challenges in air traffic management”*

**John Stoop, TU DELFT, The Netherlands**

*“Safety, a system integrator”*

**Henk Hesselink, NLR, The Netherlands**

*“Airport Decision Support: capacity forecast”*

**Antonín Kazda, University of Žilina**

*“Airport Typology from Low Cost Airlines Ops Perspective”*

**10:40-11:00 Coffee break**

**11:00 - 12:20 Paper Session I. - Innovative Solutions in Aviation Industry (Chair: Idalia Flores)**

*Modelling flexible solutions at passenger terminals: an application to Terminal 2 of Lisbon Airport, Liliana Magalhães, Vasco Reis and Rosario Macario; Instituto Superior Técnico, Universidade de Lisboa, Portugal*

*An Optimization Approach for Airport Ground Operations with A Shortest Path Algorithm, Orhan Eroglu, Zafer Altug Sayar and Guray Yilmaz TUBITAK BILGEM, U of Turkey*

*Mach Number Selection for Cruise Phase using the Ant Colony Optimization Algorithm With RTA Constrains, Alejandro Murrieta-Mendoza, Antoine Hamy and Ruxandra Mihaela Botez ;University of Quebec / Ecole de Technologie Superieure/LARCASE Canada*

*Aircraft Lateral Flight Optimization Using Artificial Bees Colony, Alejandro Murrieta-Mendoza, Audric Bunel and Ruxandra Mihaela Botez ; University of Quebec / Ecole de Technologie Superieure/LARCASE Canada*

*Optimization Techniques for Airlines, Idalia Flores; National University of Mexico/Operations Research Department*

**12:20-13:40 Lunch**

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**13:40 - 14:40 Keynote Session II. (Moderator: Benedikt Badanik)**

**John Wensveen, Purdue University, USA**

*"iPOP: An Innovative Education & Training Model"*

**Miroslav Bartos, Air Navigation Services, Slovakia**

*TBD*

**Gert Meijer, Aviation Academy, AUAS**

*TBD*

**14:40-15:00 Coffee break**

**15:00-15:40 Signing the Memorandum of Understanding of the  
ATAERA Aviation University Network**

**15:40 - 17:00 Paper Session II. (Chair: Miguel Mujica Mota)**

*Synchronizing transportation of people with reduced mobility through airport terminals, Rene van Twist, Marjan Van Den Akker and Han Hoogeveen; Utrecht University, Netherlands*

*A new reactive algorithm for gate assignment problem in airport ground operations management, Mehmet Mutlu Yenisey\*, Tuncay Özcan, Betül Yağmahan\*\* and Abdullah Aktel\*\*\*;  
\*Istanbul University, Turkey \*\*Uludag University, Turkey \*\*\*Turkish Institute of Management Sciences, Turkey*

*Identification of Operative Problems using a model-based approach for Lelystad Airport, Miguel Mujica Mota, Aviation Academy, AUAS*

*TBD, Peter Mayerhoffer*

**17:00-19:00 Cultural program**

**19:00-21:00 Dinner**

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**Day 2: Friday, 13<sup>th</sup> November**

**9:00 - 10:00 Keynote Session III. (Moderator: Antonín Kazda)**

**Olivier Poulard, SITA, Switzerland**

*"Operational and Business Intelligence for the Air Transport Industry"*

**Daniel Guimarans, NICTA, Australia**

*"Simulation and Optimization: We are here to help"*

**Thomas Hoff Andersson, Copenhagen Airports**

*"CPH: The efficient airport"*

**10:00-10:20 Coffee break**

**10:20 - 11:40 ROOM I. Paper Session III. - Trends in Airports (Chair: Edgar Jimenez/Roland Deroo)**

*Trends in airport surface access in the London multi-airport system, Richard Moxon; Cranfield University, UK*

*Benchmarking of airports from Central and Eastern Europe, Sorin Eugen Zaharia ; University POLITEHNICA of Bucharest, Romania*

*The Effects of Demographic Factors on CRM perception on Airline Pilots: Turkey Example, Mehmet Onur Balkan\*, Semih Soran\*\* and Ahmet Emin Serin\*; \*İnönü University, Turkey \*\*Ozyegin University, Turkey*

**10:20 - 11:40 ROOM II. Paper Session IV - Technical Innovation (Chair: Wenjing Zhao)**

*Development and Validation of an ATC Research Simulator, Tomislav Radisic, Doris Novak and Biljana ; Juricic Faculty of Transport and Traffic Sciences, University of Zagreb, Croatia*

*Using Human-Machine Interaction Frequency as a Proxy Measure of Subjective Air Traffic Complexity, Bruno Antulov-Fantulin\*, Matthieu Rummens\*\* and Tomislav Radisic; \* Faculty of Transport and Traffic Sciences, University of Zagreb, Croatia \*\*French Air Force Academy, France*

*Cessna Citation X Pitch Rate Control Design using Guardian Maps, Georges Ghazi, Kevin Rezk and Ruxandra Botez; École de Technologie Supérieure, Canada*

*ATS capacity and efficiency improvements by HungaroControl air navigation service provider, Vilmos Somosi; HungaroControl Hungarian Air Navigation Service Provider, Hungary*

**11:40-12:00 Coffee break**

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**12:00-12:30 Book presentation: Applied Simulation and Optimization in Logistics, Industrial and Aeronautical Practice; Miguel Mujica Mota, Idalia Flores, Daniel Guimarans, Geert Boosten**

**12:30-14:00 Lunch**

**14:00 - 15:20 Room I. Paper Session V. - Innovation in Education (Chair: Daniel Guimarans)**

*The Future Aerospace Workforce and Higher Education Institutions*, William Muldoon\* and Robert Walton\*\*; \*Embry-Riddle Aeronautical University - Worldwide, USA \*\*Embry-Riddle Aeronautical University - Worldwide, Germany

*Is economy of scale in Air Navigation Service provision really always the best choice?*, Andrej Grebenšek and Tadej Kosel; University of Ljubljana, Faculty of Mechanical Engineering, Slovenia

*Safety and Efficiency AB Initio Flight Training: Air Traffic – Control or Information*, Indre Sveistryte; Baltic Aviation Academy, Lithuania

*Present and future education and Training Needs for Aviation Engineers and Researchers in Europe*, Karol Gótz\* and Antonin Kazda\*\*; \* Winsland, Slovakia \*\*University of Zilina, Slovakia

**14:00 - 15:20 ROOM II. Paper Session VI - Technical Innovation 2 (Chair: Catya Zuniga)**

*Identification of a Cessna Citation X Aero-Propulsive Model in Climb Regime from Flight Tests*, Georges Ghazi, Ruxandra Botez and Magdalena Tudor; École de Technologie Supérieure, Canada

*Revisiting Mexican TMA Route Structure*, Catya Zuñiga\* Daniel Delahaye\*\* , \*Universidad Aeronautica de Queretaro, Mexico \*\* Ecole Nationale de l'Aviation Civile, France

*Innovative Baggage Delivery for Sustainable Air Transport*, Pavel Loskot\* Peter Ball\*\*; \*Swansea University, United Kingdom of Great Britain and Northern Ireland \*\*Zafire Aviation Software Limited,, United Kingdom of Great Britain and Northern Ireland

*Best practises: Design-in security controls in ATM*, Karol Gótz\* and Martin Hawley\*\* \*; Winsland, Slovakia \*\*Winsland, United Kingdom of Great Britain and Northern Ireland

*The Analysis of Air Transport in Poland*, Jerzy Merkisz, Jacek Pielecha; Jarosław Markowski; Marta Galant, Remigiusz Jasiński, Dawid Gallas; Institute of Internal Combustion Engines and Transport, Poznan University of Technology, Poland

**15:20-15:40 Closing words**