

3rd International Air Transport and Operations Symposium (ATOS 2012) &

6th International Meeting for Aviation Product Support Processes (IMAPP)



18th - 20th June 2012
Faculty of Aerospace Engineering
Delft University of Technology
Delft, the Netherlands



CALL FOR PAPERS

Sustaining Value in Air Transport and Operations!

The focus of ATOS 2011 was about industry and academia considering how air transport should evolve in order to optimise its value in the 21st Century! Slowly but surely, countries are climbing out of the economic recession and growth rates are positive. The aerospace industry can now be very positive about recovery but in that pioneering spirit of the past, needs to focus more than ever on sustaining value in order to evolve faster in the right direction in this transition time of added opportunity; when we can emulate the pioneers of the past! The opportunity that lies in front of us includes other key aerospace performance challenges, such as SESAR's aims in being able to handle a threefold increase in capacity, improving safety by a factor of 10, reducing environmental impact by 10% and reducing expenses by a half.

As we enter the 2nd decade of the 2nd century of aviation, and with the EU emissions trading scheme about to enter into force, ATOS 2012 aims to explore how we achieve sustainable progress for the industry. How do we identify, formalize, quantify, optimize and deliver sustained value within the current climate? Can we start to move towards a new Value Operations Methodology that raises the profile of operations research, and incorporates not only cost, but also the environment, safety and capacity into the equation? Indeed, ATOS 2012 aims to build on this aspiration of sustaining value in air transport and operations!

The international aerospace community, both scientific and industrial, is invited to submit abstracts of papers that are consistent with the overall theme of the symposium, as expressed above. In particular, papers are sought that are explicitly positioned within one of the four subject tracks outlined further in this call. We look forward to welcoming you to Delft to what is sure to be a stimulating, rewarding and enjoyable experience. ATOS 2011 was attended well by industry and academic representatives and in particular featured a very strong airline representation. ATOS 2012 will build on this with a particular focus on building mature undergraduate representation and expanding the international outreach to Asia. Luckily, optimization is easy when all the gradients turn out to be positive, so see you at ATOS 2012!

Prof. Ricky Curran

The International Meeting for Aviation Product Support Processes (IMAPP™), a conference-styled symposium, is sponsored by the American Institute of Aeronautics and Astronautics' (AIAA) Product Support Technical Committee (PSTC). IMAPP™ meetings have developed into an internationally acclaimed networking platform to collaboratively discuss Product Support and Aftermarket related Processes, Technologies, Trends, Best Practices, and Standards.

The IMAPP™ program includes panel discussions, presentations on selected subject matter with related technology demonstrations, harmonization, standardization in aviation-related compliance regulatory matters, as well as training, and high-tech business development discussions.

IMAPP™ 2012 will explore the field of Special Purpose Aircraft (SPA) Design and Operations as relevant for air travel, public transportation, equipment maintenance, and organizational adaptability. SPA incorporates Aerial Fire Tankers, Flying Hospitals, Exploration A/C, Civil Aerial Tankers, and all kind of flying platforms that have applications in addition to passenger/freight transportation. Abstracts exploring certification, qualification, and applicable airworthiness of SPA are encouraged and welcomed.

IMAPP™ 2012 will also take a comprehensive look at the primary and associated causes of No Fault Found (NFF) and Rogue Units and the development of cost-saving solutions in response to these causes. Since the reliability and cost of Aircraft Manufacturing & Operations are at all time highs the relevancy of this subject matter, which focuses on the use of improved reliability and repair systems based on technological and operational advances, cannot be understated. Abstract in the areas of enhanced repair concepts leading to improved performance, cost, and safety aspects of air transport, development of integrated, 'safer', 'greener' and 'smarter' systems for the benefit of all airline operators and maintenance service organizations, and reduction of Aircraft-On-Ground (AOG) are encouraged and welcomed.

Lori Fischer

Call for Abstracts or Draft Papers

Abstract or draft papers, if already available, can be submitted through e-mail to amoconference-LR@tudelft.nl. On <http://www.lr.tudelft.nl/atos> the abstract template can be downloaded. Please fill in the complete template when submitting an abstract or draft paper. A website to upload abstracts and containing more information will be available soon.

Oral Paper Presentations: Oral presentations take place in chaired sessions and are 25 minutes in length including question and answer time.

Call for Poster Presentations

At the conference there will also be space for poster presentations of research projects. These poster presentations will be an integral part of the program and will be displayed during the entire conference. Both separate poster presentations and poster presentations belonging to oral paper presentations (see above) can be submitted.

Poster Presentations: Each poster will be allocated an area of 1.5m high x 0.9m wide on a fixed Velcro compatible board. The author(s) of the poster presentations are responsible for the delivery of the posters to the organization.

Submission

The submission of papers and posters has to contain the following items:

Your contact details

- The title of your abstract / draft paper
- According to which congress track
- Keywords/ topics
- Name and organization of all co-presenters and co-authors
- Your completed abstract template / the draft version of your paper
- Your completed poster template

Please note the invitation to submit and abstract does not constitute an offer to pay travel, accommodation or registration costs associated with the conference. Similarly, no speaker fee is paid to successful participants. All speakers must register for the conference and forward the appropriate registration fee. In specific cases the organization preserves the right to deviate from the foregoing.

Full Papers

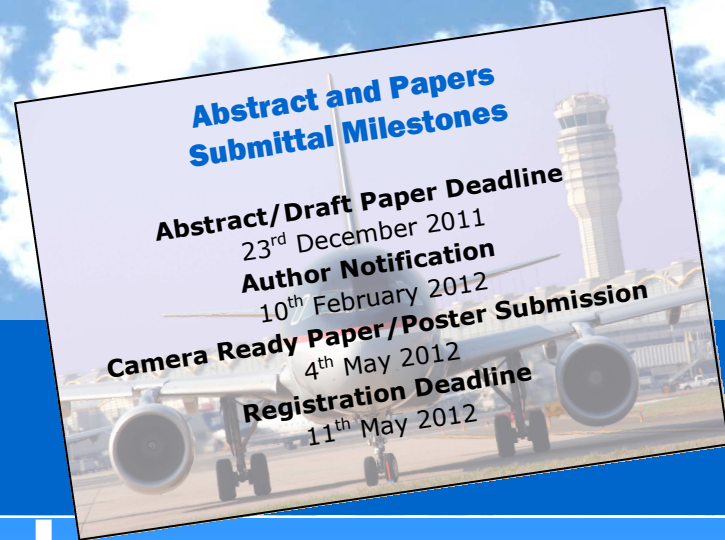
An abstract will be peer reviewed, and if accepted as a proceedings paper,

the authors will be invited to submit a full written paper, for inclusion in the Conference Proceedings (with ISBN number). During the conference all presentations will be recorded and will finally be made available at the conference website. Abstracts of the presented papers will be published in the conference abstracts book.

Abstract Review Notification

Abstract acceptance, program scheduling and your presentation format will be communicated to the corresponding authors email address and symposium website by the organization.

WWW.LR.TUDELFT.NL/ATOS
www.imappconference.org



Papers are sought on everything from design methods to case studies, from system level down to detailed sub-systems. Topic areas include but are not limited to:

Airlines, Airports & ATM (ATOS)

- Optimization of processes
- Revenue management
- Sustainable operations of airlines and airports
- Collaboration between airlines, airports and ATM providers
- Air Traffic Control (ATC)
- Human machine interfaces
- Small and regional airport development
- Congestion problems at major airports

Air Transport Integration, Environmental Impact & Technology Innovation (ATOS)

- System modelling & integration methodologies
- Air transport noise management
- Emission Trading Scheme & CO₂ management
- Seamless travel (passengers, cargo, baggage)
- Aircraft design for operations
- Safety
- Capacity & Traffic Flow management
- SESAR/NEXTGEN
- Sustainable innovation and enterprise

Engineering Value Analysis, Cost Modeling & Business Innovation (ATOS)

- Value engineering
- Supply chain management
- Lean business processes management
- Outsourcing/in sourcing operations effects
- Supply chain strategies & entrepreneurship
- New business models, business trajectories and e-business
- Open Innovation processes

Service Support & Life Cycle Analysis (ATOS & IMAPP)

- Forecasting maintenance
- Material/parts requirement planning
- Aircraft refurbishment/retrofit
- End-of-life services
- Maintenance of new materials
- Maintenance management & Location planning
- Reliability, Availability, Maintainability, Supportability (RAMS)
- No-Fault-Found (NFF)
- Special Purpose Aircraft (SPA)

ATOS Technical Committee

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| Richard Curran TU Delft, ATO | John C. Hsu The Boeing Company |
| Parimal Kopardekar NASA | Akbar Sultan NASA |
| Henk A.P. Blom NLR, TU Delft, ATO | Mark Price Queen's University Belfast |
| Dick Dam KLM | Jim P. Scanlan University of Southampton |
| Peter Hollingsworth The University of Manchester | Dave Maroney The MITRE Corporation |
| Paul Collopy Value-Driven Design Institute | Danielle Soban Queen's University Belfast |

IMAPP Technical Committee

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| Stephan Hollmann HE-Aviation | Joseph Bailey HE-Aviation |

This conference is supported by:

