

Invitation

Future Trends for Digital ATM Communication Technologies

A conference within TAKE OFF -
the Austrian Aeronautics Research and Technology Programme

Tuesday, 21 April 2009
Salzburg, Austria



This conference will present an overview of the future technologies in Digital ATM Communication for the Single European Sky initiative, which will be implemented by SESAR (Single European Sky ATM Research Programme).

The conference will address implications on ATM communication technologies, which will complement the SWIM (System Wide Information Management) approach and support CDM (Collaborative Decision Making) based on presentations by international organizations (EUROCONTROL, ESA, etc.) and pertaining to the foreseen developments within the context of SESAR. The conference also offers a chance to become acquainted with Austrian research, technology and development in this area as a new cellular terrestrial digital communication candidate system for Europe is currently being developed under the leadership and contribution of Austrian participation by Frequentis AG and the University of Salzburg.

The conference will further address the implications on a future ATM System as well as the influencing factors on ATM communication with regard to weather situations and the human factor. A separate session is devoted to financing aeronautics R&D projects and the possibilities for SMEs.

A panel session will allow for a discussion of the presented topics in detail and the ATM concepts and future digital communication systems functionality will be exhibited and demonstrated by the Aeronautical Digital Communications (ADC) Group of the University of Salzburg. Participants will be given the opportunity to present their activities in a poster format if they express their interest to the organizer.

The conference is intended to address key technical managers and decision makers from aviation authorities, air traffic service providers, airports, airlines, the aviation industry and the IT-industry as well as from aviation research organizations.

Venue **St. Virgil Salzburg**
Education and Conference Centre
Ernst-Grein-Straße 14
A-5026 Salzburg

TAKE OFF is funded by the Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT). More information on TAKE OFF and its results are available under www.takeoff.or.at and www.ffg.at/takeoff

9:00 Registration and Welcome Coffee

9:30 Opening and Welcome Addresses

Peter Zinterhof, Head of Computer Sciences Department of the Paris Lodron University of Salzburg

Elisabeth Huchler, Austrian Federal Ministry for Transport, Innovation and Technology

Session 1 The Future ATM System for the Single European Sky

9:45 The SESAR Masterplan - A Paradigm Shift in ATM

Olaf Dlugi, SESAR Executive Committee Chairman

10:15 ESA / Iris Programme - Air Traffic Management Communications via Satellite

Franco Ongaro, European Space Agency (ESA)

10:45 Coffee Break

Session 2 Austrian ATM Communication Research

11:15 Overview on Austrian Activities in ATM Communication Technology Research within SESAR

Christoph Rihacek, Frequentis AG

11:45 New Digital Aeronautical Communication Technologies to support future ATM concepts of SESAR

Carl-Herbert Rokitansky, Department of Computer Sciences, Paris Lodron University of Salzburg

12:15 Lunch Break

Session 3 Implications for the Future ATM System

13:15 The Implications for the ATM Communication System

Nikolaos Fistas, Eurocontrol

13:45 The Implications for the ATM Surveillance System – NextGen Surveillance

Werner Langhans, ERA Systems Corporation/SRA International

14:15 Coffee Break

Session 4 Influencing Factors to ATM Communication

14:15 Impact of Weather – How to Assist Pilots and Controllers in the Decision Making Process

Thomas Hauf, Faculty of Mathematics and Physics, Leibniz University Hannover

14:45 Human Factors in Digital Communication – How to Avoid Communication Errors

Thomas Fakoussa, Awareness Training Fakoussa

15:15 Air Navigation Services - Education & Training – A European Perspective

Stefan Böller, Skyguide

Session 5 Cooperation in ATM Research

15:45 Panel Discussion

“Cooperation Potential for SMEs in Aeronautics Research Projects”

Moderator: Christoph Rihacek

Registration

Please register online on the Website of the Austrian Research Promotion Agency (FFG) under www.ffg.at/anmeldungen/takeoff09/ until 17 April 2009.

No admission fee.

Technical Chair

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Hotel

A limited number of hotel rooms at favourable rates are available at the conference site. Please contact the Bildungshaus St. Virgil Conference Centre, Mrs. Pomarolli, directly with reference to the conference. Phone: +43 662 65901-511, E-Mail: reservierung@virgil.at

How to find us

The Conference Centre and it's location can be found at www.virgil.at/Contact.2.1.html

This event is held in cooperation with

Department of Computer Sciences
of the Paris Lodron University of Salzburg
Toni Eiser Innovation-Strategy+Funding



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