

## KoMSO Challenge Workshop

### „Mathematical MSO for Air Traffic Management“

Day 1: Thursday, July 14, 2016 (Meeting Room at LH Systems)

12:00 Arrival, Check-In at NH Hotel, Registration

13:00 Lunch at Lufthansa Systems Cafeteria

14:00 **Address of Welcome**

Stefan Auerbach, *Chief Executive Officer Lufthansa Systems*

Urban Weißhaar, *Head of SESAR Program Lufthansa Systems*

14:15 **Air Traffic Control: Air Traffic Management from a Flight Controller's Perspective**

Roland Scharff, *DFS Deutsche Flugsicherung*

14:45 **Air Traffic Management: The Synergy of Flight Planning and Flight Operation – A Report from the Cockpit**

Jörg Pikolin, *A320 Captain Deutsche Lufthansa*

15:15 **Coffee Break**

15:45 **iStream- integrated SESAR Trials for Enhanced Arrival Management Optimized Descent Profiles (ODP)**

Michael Hopp, *A380 First Officer, SESAR Project Pilot, Deutsche Lufthansa*

16:20 Bus Transfer to Lufthansa Basis

17:00 **Visit to Lufthansa Operation Control Center**

Gerd Mattes, *Manager Strategic Topics, Deutsche Lufthansa*

18:32 S-Bahn Ride to Frankfurt

Sightseeing Tour: Alte Oper, Maintower, Römer

Stroll along the Main

**Workshop Dinner** (Dutch treat)

at Gerbermühle, Gerbermühlstraße 105, 60594 Frankfurt a.M.

Day 1: Friday, July 15, 2016 (Meeting Room at NH Hotel)

09:00 **Welcome**

Bernd Jurisch, *Vice President Product Line Lido/Flight, Lufthansa Systems*

09:15 **VOLAR: A new algorithm for the 4D Business Trajectory calculation from Airspace User Perspective**

Ralf Borndörfer, *Head of Mathematical Optimization, Zuse Institute Berlin*

Swen Schlobach, *Senior Expert Engineer Optimization, Lufthansa Systems*

09:45 **Decision Support Tools for Separation Management - How Far Can We Go?**

Matthias Poppe, *Deutsche Flugsicherung (DFS)*

10:15 **Terminal Control Area Aircraft Scheduling and Trajectory Optimization Approaches**

Matthias Gerdts, *Bundeswehr University Munich*

10:45 **Coffee Break**

11:15 **Aircraft Trajectory Optimization using the FSD Optimal Control Tool for Matlab (FALCON.m)**

Benedikt Grüter, *TU Munich*

11:45 **Tba.**

N.N.

12:15 **Lunch Break**

13:15 **Tba.**

Christopher Bouman, *Eurocontrol*

13:45 **Robust Runway Scheduling: Exact Approaches and Protection against Disturbances**

Frauke Liers, *University of Erlangen-Nuremberg*

14:15 **Tba.**

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14:45 **Coffee Break**

15:15 **Lufthansa Systems and SESAR: Our Needs for Mathematical Support**

Urban Weißhaar, Dr. Max Hoffmann, *Lufthansa Systems*

15:45 **Closing Discussion and Farewell**