Air Traffic Management Research Institute

Seminar Announcement

“Space Traffic Management – ATM in Space and Stratosphere?”

Prof. Dr.-Ing. Dirk Kuegler
Director of Institute of Flight Guidance
DLR German Aerospace Center

Date: Monday, 9 January 2017
Time: 10.00 am
Venue: Fusion@MAE Seminar Room (N3.1-B3c-06)

This seminar will be chaired by Prof. Lye Sun Woh

Seminar Abstract

The development of Commercial Space Transportation has recently received an increasing significance in the world of Air Traffic Management (ATM). A large and increasing number of spaceports and launch sites are serving (or will serve) new emerging traffic users in near space environment. Besides an overview about the situation, this talk will give some insights into the challenges and limitations of the impact of spaceflights and/or space vehicles/platforms operating in near space environment on ATM. Especially the compatibility to existing controlled air traffic within the ATM system and procedures for separation assurance will be highlighted.
### Speaker’s Biography

Since 2008, Dirk Kuegler is Director of the Institute of Flight Guidance at DLR German Aerospace Center in Braunschweig as well as a full professor for Air Traffic Management (W3) at the Technische Universität Braunschweig, Germany. He is involved in research in Air Traffic Management (ATM) both on-ground and onboard. His personal area of interest is the future design of the ATM system and CNS technology. He is personally focusing on airborne collision avoidance and future surveillance technologies as well as navigation applications.

In 1995, Dirk Kuegler received a doctorate degree (Dr.-Ing.) topic: “potential of airborne collision avoidance system on board of civil aircraft”) and a diploma degree as Diplom-Ingenieur (Dipl.-Ing.) in electrical engineering, communication, data and high-frequency engineering from Technische Universität Braunschweig (TU Braunschweig), Germany, in 1990.

Prior to his assignment to DLR and TU Braunschweig he has been 10 years with DFS Deutsche Flugsicherung GmbH (German Air Navigation Service Provider), Langen, Germany. In his last position he has been Director of the Technical Coordination and Planning Division. He has been the DFS Liaison Officer at FAA-HQ in Washington DC, USA in 2005/2006 as well as Director of the Business Unit Consulting.

Earlier in his career he has been head of navigation systems consulting at Avionik-Zentrum in Braunschweig, Germany and has been involved in the design of future ground and space based navigation systems.

Dirk Kuegler is deputy director of the German Institute of Navigation (DGON) and head of the air navigation commission of DGON; chairman of the navigation expert group of Deutsche Gesellschaft für Luft- und Raumfahrt (DGLR) and he is a fellow (FRIN) to the Royal Institute of Navigation (RIN).