

**DAY 1 Tuesday NOV 5th**

	Title	Authors	Presentation #
09:00	09:15	Check-in and Morning Coffee	
09:15	09:20	Welcome Address of the Organiser	
09:20	09:30	Welcome Address of the Chairman	
<b>Automation and Autonomy</b>			
09:30	10:00	Development and integration of Target Line Following functionality for the control of an Electro-Optic turret in UAS applications	Alessio Lunghi, Ilaria Sale (Alenia Aermacchi S.p.A., Italy) UAV05
10:00	10:30	Total System Performance Concept applied to the Development of an Image Aided Automatic UAV Landing System	Christian Eitner, Florian Holzapfel (TU München, Institute of Flight System Dynamics, Germany) UAV17
10:30	11:00	Autonomous Quadcopter for Search, Count and Localization of Objects	Nils Gageik (University of Würzburg, Germany) UAV20
Coffee Break			
11:30	12:00	Approaches to Human-Centered UAV Mission Autonomy	Prof. Dr.-Ing. Axel Schulte (Universität der Bundeswehr München, Germany) UAV36
12:00	12:30	available slot	available slot UAV98
Lunch Break			
<b>System Design / Configurations</b>			
13:30	14:00	Predator Aircraft Series Status Report: Military & Civilian Missions	Rear Admiral, US Navy (Ret.) Christopher C. Ames (General Atomics Aeronautical, USA) UAV15
14:00	14:30	Aeroflexible self-actuated and -adapting Airfoils	Felix Schaller (design & computeranimation, Germany) UAV06
14:30	15:00	Preliminary Design and Mathematical Modeling Of Micro Unmanned Aerial Vehicle	Bahaa Ibrahim El Badry, Mohamed K. Khalil, Aly El-Zahaby (Tanta university, MTC, Egypt) UAV44
15:00	15:30	Investigations on Low-Noise Technologies for Unmanned Aircraft Configurations	Joachim Schömann and Sebastian Speck (TU München, Institute of Aircraft Design, Germany) UAV16
Coffee Break			
<b>bavAIRia e.V.</b>			
16:00	16:30	BavAIRia Aerospace Cluster – and his UAS activities	Horst Steinberg (bavAIRia e.V., Germany) UAV48
16:30	17:00	ePilot – A Voice Driven Autopilot System To Integrate UAS Into Controlled Civil Airspace	Volker Schneider (TU München, Institute of flight system dynamics, Germany), Vadim Gamidov (e.sigma Technology GmbH, Germany) UAV29
17:00	17:30	Tactical Unmanned Aircraft Systems (UAS) of EMT	Sascha Lange (EMT Ingenieurgesellschaft Dipl.-Ing. Hartmut Euer mbH, Germany) UAV50
17:30	18:00	Roadmap to civil certification of components of UAS	Dr. Josef Mendler (Acentiss GmbH, Germany) UAV49
18:00	18:30	Certification process for military type certificate of UAS	Andreas Cords (RUAG Deutschland GmbH, Germany) UAV51

**PARALLEL**

09:30	10:00	available slot	available slot	UAV98
10:00	10:30	available slot	available slot	UAV98
10:30	11:00	available slot	available slot	UAV98
Coffee Break				
11:30	12:00	available slot	available slot	UAV98
12:00	12:30	available slot	available slot	UAV98
Lunch Break				

**DAY 2 Wednesday NOV 6th**

		Title	Authors	Presentation :
09:15	09:30	Check-in and Morning Coffee		
<b>Airspace Integration</b>				
09:30	10:00	Working title: UAS as seen from the perspective of an Operator and Air Space Manager	Brigadegeneral a.D. Hans-Georg Schmidt (EUROCONTROL, Belgium)	UAV25
10:00	10:30	You can only avoid what you sense – Five challenges in developing an operational Sense and Avoid system	Gregor Zowierucha-Schmies (ESG Elektroniksystem- und Logistik-GmbH, Germany)	UAV35
10:30	11:00	UAS integration in civil airspace	Edward Falkov, Elena Gromova (State Research Institute of Aviation Systems, FSUE «GosNIIAS», Russian Federation)	UAV42
Coffee Break				
11:30	12:00	Integration of remotely Pilot Aircraft into non segregated Airspace	Andreas Udovic (DFS Deutsche Flugsicherung GmbH, Germany)	UAV40
12:00	12:30	UAS Integration into controlled Airspace	M. Hanel, M. Labonde, J. Ponce-Ruiz (CASSIDIAN, Germany)	UAV53
Lunch Break				
<b>Certification and Safety</b>				
13:30	14:00	Safety and Integrity Concepts for UAS	Dr Uwe Herberth (Northrop Grumman LITEF GmbH, Germany)	UAV07
14:00	14:30	Certification of UAS – Control Stations perspective	Francisco Javier Ramos Salas (EADS CASSIDIAN, Spain)	UAV08
14:30	15:00	International challenges in UAS Traffic Insertion	Dr. Norbert Tränapp (IABG Industrieanlagen-Betriebsgesellschaft mbH, Germany)	UAV41
15:00	15:30	Certifiable Airborne Mission Computers	Hans-Peter Dukek (CES.D Creative Electronic Systems GmbH, Germany)	UAV43
Coffee Break				
<b>Guidance, Navigation and Control, Mission Planning, Miscellaneous</b>				
16:00	16:30	Lessons learned from UAS Missions in Afghanistan	TBA (German Air Force, Germany)	UAV01
16:30	17:00	Reactive Trajectory Generation for Unmanned Vehicles	Joao Graciano (AEVO GmbH, Germany)	UAV09
17:00	17:30	Renewing old technologies – UAV applications	Chen Granas (Pro-Visint, Israel)	UAV12
17:30	18:00	Aspekte der Weiterentwicklung von unbemannten Luftfahrzeugen in der Luftwaffe	TBA (German Air Force, Germany)	UAV10
18:00	18:30	available slot	available slot	UAV98

**PARALLEL**

		Title	Authors	Presentation :
<b>Actuation / Flight Sensors</b>				
09:30	10:00	Hardware-in-the-Loop Platform for Development and Simulation of a Fault Tolerant Control Surface Actuation System with Redundant and Smart Actuators	Patrick J. Lauffs (TU München, Institute of flight system dynamics, Germany)	UAV30
10:00	10:30	Lightweight actuators based on shape memory alloys	Dr Sven Langbein, Dr Alexander Czechowicz (FG-Innovation GmbH, FGW e.V., Germany)	UAV45
10:30	11:00	A new system approach for Airborne Visual Sensor Processing	Olaf Heinzinger (EADS Innovation Works, Germany)	UAV19
Coffee Break				
<b>Green System Subsystems</b>				
11:30	12:00	Fly-By-Wire for CS23 aircraft - core technology for general aviation and RPAS	Dr. Reimund Kueke (Cassidian Airborne Solutions GmbH, Germany), Sebastian Polenz, Florin Cake (Universität Stuttgart, Germany)	UAV11
12:00	12:30	Air Based UAV Control Station - A Demonstrator	Paul (ESG Elektroniksystem- und Logistik-GmbH, Germany)	UAV34

**DAY 3 Thursday NOV 7th**

		Title	Authors	Presentation #
09:15	09:30	Check-in and Morning Coffee		
<b>UAS Systems for Civil Applications</b>				
09:30	10:00	Multisensor platforms - R&D Laserscanning, Aeroimages	Prof. Dr.-Ing. Klaus-Dieter Kuhnert (Universität Siegen, Institute EZLS, Germany)	UAV31
10:00	10:30	Precise Positioning and Navigation for MUAS < 25kg /5 kg accuracy < 10 cm in realtime	Jürgen Ruffer (Allsat GmbH, Germany)	UAV33
10:30	11:00	Visuelle Odometry - Determine cameras movement out of camera images	TBA (Fraunhofer FKIE, Wachtberg, Germany)	UAV32
Coffee Break				
11:30	12:00	Applying UAS (Unmanned Aerial Systems) for land resources management - practical examples and future challenges	Dr. Hans-Peter Thamm (Geo-Technic, Germany)	UAV28
12:00	12:30	DemUEB Overview	Michael Jost (Cassidian, Germany)	UAV18
Lunch Break				
13:30	14:00	Applications of Unmanned Vehicle Systems to Wildlife Research and Management	Prof. David Bird (Macdonald Campus of McGill University, Canada)	UAV04
14:00	14:30	Operational Issues in Multi-Platform RPAS for Power Line Inspection	Prof. Geraldo José Adabo (Instituto Tecnológico de Aeronáutica (ITA), Brazil)	UAV46
14:30	15:00	Hybrid LSU 01 Development for Urban Mapping: Concept and Primary Design	Gunawan S. Prabowo, Dewi Anggraeni, Yanuar Prabowo (Peneliti Pusat Teknologi Penerbangan, LAPAN, Indonesia)	UAV47
15:00	15:30	Powerline Monitoring	Vasilis Fotinopoulos (Aerofilms, Greece)	UAV55
16:00	16:30	NG-UAV Future Generation	Shlomo Tsach (Technion, Haifa, Israel)	UAV13
16:30	17:00	available slot	available slot	UAV98

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<b>Ground Control and Data Link</b>				
09:30	10:00	Increased efficiency for beyond line-of-sight in airborne ISR operations	Koen Willems (Newtec Cy N.V., Belgium)	UAV02
10:00	10:30	Innovative multiprotocol unit for integrated UAV and Satellite communications	Dott. Ing. Cesare Dionisio (intecs spa, Italy)	UAV26
10:30	11:00	Multifunctional User Station for EO Services	Dott. Ing. Cesare Dionisio (intecs spa, Italy)	UAV27