

PROGRAMME

FRIDAY, 13 SEPTEMBER 2019

19:30	Welcome Dinner at Hotel Divinus	Dress Code: Smart Casual
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SATURDAY, 14 SEPTEMBER 2019

Opening Ceremony			
08:30	Welcome Address	Dr. László Papp, City Mayor Debrecen, Hungary	4
08:35	Welcome Address	BG Nándor Kilián, Inspector/Chief of AF HDF, Hungary	5
08:45	Welcome Address	Manfred Bauer, CEO AMST, Austria	8
08:50	Opening Remarks by the Chairmen	Col Alexander Szabó, MD, PhD, DAvMed (UK), CFS HDF, Hungary BG (ret.) Dr. med. Erich Rödíg, MD, MC, CFS, Germany	9
Keynotes			
09:00	Operational Challenges in Joint Air Missions	BG Nándor Kilián, Inspector/Chief of AF HDF, Hungary	
09:30	Medical Support of NATO and Missions in the Frame of New Organizational Structure and Developmental Plan "Zrínyi" of HDF	Col Dr. Péter Horváth, Medical Centre of HDF, Head of Defence Health Strategic Medical Planning Department, Hungary	
10:00	Group Photo, Coffee Break		
Session 1: Human Perception Limits and Their Impact in Aviation			
10:45	Sleep Problems in Military Personnel	Col Zoltan Szakacs, med. habil., PhD, Chief Specialist in Neurology in HDF, Head of Neurology Dept. in Military Hospital, Hungary	11
11:15	Enhancement of Visual Stimuli Reduces Disorientation Due to Vestibular Cross-Coupling	Katja Trabolde, AeMC, Switzerland LtCol Dr. Denis Bron, CFS Swiss Air Force, Deputy Director of AeMC, Switzerland	13
11:45	Vestibular and Otoneurological Misperceptions in Aviation	Col (ret.) Dr. Andreas Knöfler, ENT specialist, Germany	15
12:15	Lunch Break		
14:00	Survey of Spatial Disorientation and Sensory Illusion among Air Force Pilots	Vladimír Smrž, Ph.D., Assoc. Prof. at University of Defense, Brno, Czech Republic	17
14:30	Unexplained Physiological Episodes (UPEs) – Phenomenon or an Inflight Hazard?	BG (ret.) Dr. med. Erich Rödíg, MD, MC, CFS, Germany	19
15:00	Pilot Decisions in Uncertain Environment	Georges Rebender, FCL Expert/Artificial Intelligence Advisor, EASA	21
15:30	Coffee Break		
Session 2: Flight Safety Risk Management			
16:00	Methods to Determine and Objectify the Performance of Anti-G Suits. Experiences from Human Use Centrifuge Studies	LtCol PD Dr. Carla Ledderhos, MD, PhD, GAF Centre of Aerospace Medicine, Germany	23
16:30	Ejection Seats and Flight Safety Issues	Col (ret.) Dr. Kathryn Hughes, Martin Baker Consultant, USA	27
17:00	General Discussion		

SUNDAY, 15 SEPTEMBER 2019

Session 2: Flight Safety Risk Management			
08:30	Advances in Synthetic Training for Operations in the Degraded Visual Environment (DVE)	Sqn Ldr (ret.) Douglas Vine, Vineyard Consultancy Services, UK	29
09:00	Hidden Stressors in the Fighter Aviation	Capt Sándor Csak, OF-2 Pilot, DONGO Tactical Gripen Fighter Training Squadron, Hungary	31
09:30	Fly – When Others Do Not Fly Anymore	Frank Roth, Airbus Helicopters	33
10:00	Advanced Simulation in the Civil Airline Industry	Keith Kaser, Director Sales AMST-Aviation GmbH, USA	37
10:30	Coffee Break		
Session 3: Prevention Strategies			
11:00	Use of VR Technology in Ground-Based Simulated Aeromedical Stress Situation	WO Károly Domján, Aircraft Engineer and IT Expert, HDF ACCC, Hungary	39
11:20	Hypobaric Hypoxia Related Stress Monitoring System by NIRS and HRV Parameters in Barochamber during VR Flight Simulation	Col Alexander Szabó, MD, PhD, DAvMed (UK), CFS HDF, Hungary	41
11:40	New Hungarian Aircrew Training Centre and Its Prospective	Col Tamás Bali, PhD, HDF 86. Szolnok Helicopter Base, Deputy Base Commander (Pilot in command, instructor pilot), Head of Operational Training Center, Hungary	43
12:00	Lunch Break		
13:30	7 G DESDEMONA	Dr. Johann Schwandtner, AMST Engineer, Austria	45
13:50	Prevalence of Acute Stress in Flight Simulators and Its Association with Episodic Memory in Military Pilots	Dr. Edwin Ayala, Specialist of the Ecuadorian Air Force (FAE), Ecuador	47
Session 4: The User Nations' Approach to Aircrew Training			
14:10	Spatial Disorientation Confusion that Kills	Klara Sinabutar, MD, FS, AVMED, Head of Health Department, National Air Defense Command, Jakarta, Indonesia	49
14:30	10 Years Experiences with the German Human Centrifuge	LtCol Dr. Michael Nehring, CAM Königsbrück, Germany	53
14:50	Coffee Break		
15:20	High-G Dynamic Flight Simulation – the Polish Approach	Col (ret.) Dr. Krzysztof Kowalczyk, PhD, DAvMed, Head of Aeromedical Training Division, WIML, Military Institute of Aviation Medicine, Warsaw, Poland	55
15:40	HTC DFS Training – Bringing Centrifuge Training to the Next Level in the RSAF	LtCol (ret.) Leong Chun Yu "Dumex", Aerospace Consultancy Pte Ltd, Singapore	57
16:00	G-Training in Sweden – Past, Present and Future	Maj Dr. Ioannis Magounakis, Medical Director, Senior FS, Swedish Armed Forces	59
16:20	Open Discussion and Closing Remarks by the Chairmen	Col Alexander Szabó, MD, PhD, DAvMed (UK), CFS HDF, Hungary BG (ret.) Dr. med. Erich Rödiger, MD, MC, CFS, Germany	
19:30	Farewell Dinner at Régi Vigadó Étterem	Dress Code: Smart Casual	