

SCIENTIFIC PROGRAM ECAM 2018 – Prague

Thursday, 20 September 2018

		Speaker
12:00	Opening Address	Presidents ESAM, AsMA, Czech Aeromedical Society
12:30-13:30	Opening Lecture 1 “Where the Earth Touches the Sky” Above Everest: Science and Gliding Adventure	[1] Mr. Klaus Ohlmann
13:30-14:15	Opening Lecture 2 New Medical Technology and its Consequences for Aeromedical Screening	[2] Melchor Antuñano, FAA
14:15-15:00	Opening Lecture 3 New Technologies in Commercial Air Transport	[3] Chris Redfern, Airbus
15:00-15:30	Tea/Coffee/Snacks Break - Posters	
15:30	Session Military and Civil Aerospace Medicine: Where the Twain Shall Meet	Chair: Anthony Wagstaff
15:30-16:00	Military and Civilian Aerospace Medicine: What Can We Learn from Each Other?	[4] Anthony Wagstaff, ESAM
16:00-16:15	The Safety of High Flight: Effects of Hypobaric Exposure Upon the Brain - Human Single Exposure Trial at 3 Years	[5] Paul Sherman, USAFSAM
16:15-16:30	Accelerated Cerebral White Matter Aging in a Cohort of U-2 Pilots and Air Force Physiologists/Chamber Technicians	[6] John Sladky, USAFSAM
16:30-16:45	Determinants of Fighter Pilots’ Flight-Related Musculoskeletal Symptoms in Early Flight Career	[7] Harri Rintala, University of Jyväskylä, Finland
16:45-17:00	Current Health Trends in Helicopter Pilots	[8] John Crowley, US Army Aeromedical Research Laboratory
17:00-17:15	Obstructive Sleep Apnea Syndrome in Aircrew Members: The Aeromedical Assessment	[9] Jonathan Monin, French Military Health Service Academy
17:15-17:30	Molecular Pathology in Aircraft Accident Investigations	[10] Michael Schwerer, Air Force Centre of Aerospace Medicine

Friday, 21 September 2018

08:30	Session Implementing Commercial Human Spaceflight for Ordinary Citizens (panel session supported by IAASM)	Chair: James Vanderploeg, IAASM
08:30-08:50	Future Suborbital and Orbital Flight Operations	[11] Melchor Antuñano, FAA
08:50-09:10	Medical Screening of Spaceflight Participants at DLR	[12] Claudia Stern, DLR

09:10-09:30	Experience in the Medical Evaluation of 16 Orbital Spaceflight Participants	[13] Richard Jennings, UTMB
09:30-09:50	The Legal, Regulatory and Medical Foundations for Commercial Space Tourism in the UK – The Story So Far and Current and Future Challenges	[14] Stuart Mitchell, CAA-UK
09:50-10:10	Flight Crew Medical Standards and Spaceflight Participant Medical Acceptance Guidelines for Commercial Space Flight	[15] James Vanderploeg, UTMB
10:10-10:30	Discussion	
10:30-11:00	Tea/Coffee Break - Posters	
11:00	Session Pilot Mental Health: Enigmas Feed Stigmas	Chair: Ries Simons, ESAM
11:00-11:45	Clinical Readings of Aviation Accident Investigators' Reports: A Psychiatry Interactive Workshop	[16] Trang Dao
11:45-12:05	Psychiatric Disorders and Accident: Limits of Mental Assessment in General Aviation. Case report.	[17] Didier Delaitre, BEA, France
12:05-12:25	Pilot Peer Support Programmes: A Medical Perspective	[18] Ries Simons, ESAM, EPPSI
12:25-12:45	Just Culture in Aerospace Medicine: Balancing Safety, Accountability and Autonomy	[19] Diederik de Rooy, LUMC
12:45-14:15	Lunch	
14:15	Session Vision and Other Aspects of Aeromedical Screening	Chair: Claudia Stern
14:15-14:35	Surgical Correction of Astigmatism of Senior Flying Staff: Clinical Outcomes After Implantation of Monofocal Toric IOL	[20] L.V. Novacek, Institute of Aviation Medicine, Prague
14:35-14:55	Keratoconus – A Challenging Issue in Aeromedical Ophthalmology	[21] Veronika Polackova, Institute of Aviation Medicine, Prague
14:55-15:15	Retinal Artery Occlusion (RAO)/ Ischemic optic Neuropathy (ION)/ Amaurosis Fugax (AF) and Aeromedical Considerations for Certification.	[22] Ryan Anderton, UK Civil Aviation Authority
15:15-15:35	Construction of Competency Model for Civil Aviation Medical Examiners	[23] Mou Lin, Civil Aviation Medicine Center of CAAC, China
15:35-15:55	Accreditation of Aviation-Psychologists	[24] Jörg Eidher, Austro Control GmbH
16:00-16:30	Tea/Coffee Break - Posters	

16:30	Session Human Factors	
16:30-16:50	A Possibility of Human Voice Analysis as Method of Functional Mental State Evaluation in Aviators	[25] Oliver Dzvonik, Institute of Aviation Medicine, Prague
16:50-17:10	The Interpretation of Simulator Test Results in Medical Decision Making.	[26] John Pitts, UK Civil Aviation Authority
17:10-17:30	Mental Health Examination Methods in Russia. Ways to Improve?	[27] Olga Verba, Aviation Medicine Doctors Association (AMDA), Russia
14:15-16:00	Parallel Session: Aeromedical Examiners Refresher Course I	Chair: Trond-Eirik Strand
16:00-16:30	Tea/Coffee Break - Posters	
16:30-18:00	Parallel Session: Aeromedical Examiners Refresher Course II	Chair: Trond-Eirik Strand
Saturday, 22 September 2018		
08:30	Session Pilot Health	Chair: Oldrich Truska
08:30-08:45	Bicuspid Aortic Valve Disease in Pilots: single pilot, multi-crew or surgery?	[28] Fabrizio Palumbo, Aerospace Medicine Institute "Angelo Mosso", Italy
08:45-09:00	Sudden (nonaccidental) Death among Czech Professional Civilian Pilots During Last 25 years and a Fatal Case Report of Erdheim Disease	[29] Oldrich Truska, Civil Aviation Authority of the Czech Republic
09:00-09:15	Analysis of the Disease Spectrum of Foreign Pilots in 2017	[30] CH Zhang, China Southern, Guangzhou, China
09:15-09:30	Analysis of Dyslipidemia and Nutrition Knowledge of Pilots in Southwest China	[31] Bing Qiu, Civil Aviation Medical Center of CAAC, China
09:30-09:45	Bipolar Disorders: A Challenge in the Aeromedical Fitness Evaluation: Introduction	[32] Simeone Izzo, Italian Air Force
09:45-10:00	Interviewing Tips for Optimal Psychiatric Referrals of Aircrew	[33] Lewis A Van Osdel III, MD, FAsMA
10:00	The Hazard of Drones to Commercial Aircraft Operations	[34] Rob Hunter, BALPA
10:30-11:00	Tea/Coffee Break - Posters	

11:00	Session EASA Panel: The Limitations of Regulation in a Rapidly Changing Health Environment	Chair: Cristian Panait
11:00-11:20	Rulemaking Challenges in Combining Two Fast Developing Fields - Aviation and Medicine	[35] Cristian Panait, EASA
11:20-11:40	New Tools for the Appropriate AME's Oversight and Evaluation of Physical Results	[36] Francisco Rios Tejada, AESA
11:40-12:00	Standardizing Multiple National Systems in Aviation and Medicine – Challenges and Limitations	[37] Janis Vegers & Virgilijus Valentukevicius, EASA
12:00-12:20	Difficulties and Solutions Attempting to Harmonize Global Aviation Medicine Regulatory Practices	[38] Ansa Jordaán, ICAO
12:20-12:30	Discussion	
12:30-14:00	Lunch	
14:00	Session Onboard Medicine in Space and Aircraft	Chair:
14:00-14:20	Introduction to ESAM Space Medicine Group	[39] Jochen Hinkelbein, ESAM-SMG
14:20-14:40	Cancer & Health Research In Space (CHRIS)- A Study on Glioblastoma in Microgravity	[40] Lydia Johnson, University of Perugia
14:40-15:00	How to Handle Cardiac Arrest in Spaceflight - A Guideline for Cardiopulmonary Resuscitation in Microgravity	[41] Steffen Kerkhoff, University Hospital of Cologne, Germany
15:00-15:20	What Kind of Onboard Medical Equipment Do Healthcare Professional Volunteers Use or Expect in an Inflight Emergency? A study in one airline.	[42] Rui Pombal, TAP Air Portugal Group Healthcare Services
15:20-15:30	Discussion	
15:30-16:00	Tea/Coffee Break - Posters	
16:00	Session The Heart of the Matter	Chair:
16:00-16:20	Advanced Cross-Sectional Imaging in Refining Aircrew Risk - The Current and Emerging Role of Cardiovascular CT and MRI	[43] Ed Nicol, NATO Cardiology Working Group
16:20-16:40	A 3D Matrix as a Help to Assess the Aeromedical Risk: The Premature Ventricular Complex Example	[44] Olivier Manen, NATO Cardiology Working Group
16:45-17:00	Cardiovascular Risk Factors Evaluation in Aircrew: Comparison Between Score Calculators and Empirical Evaluation	[45] Sébastien Bisconte, Bordeaux Military Hospital
17:00-17:15	Safety Management in Cases of Pilots Who Underwent Coronary Revascularization	[46] Elena Cataman, CAA Moldova
17:15-17:30	Prevalence of LDL-Hypercholesterolemia and Global Cardiovascular Risk in a Population of 2,821 French Aircrew	[47] Nicolas Huiban, French Military Health Service Academy

Poster Sessions Friday 21 September + Saturday 22 September during all Breaks and Lunches

[48] Marjan Bilban	Measles and Measles-Related Risks Among Flight Crew Personnel and Flight Attendants
[49] Dingqiong Peng, Gang Chen	Effect of Aeronautical Environment on Biochemical Markers of Bone Metabolism in Aircrew Members of Civil Aviation
[50] Gang Chen, Dingqiong Peng	Investigation on Bone Mineral Density in Airline Pilots of Civil Aviation
[51] Hetty van Dijk	What Do We Have to do with Pilots Who Have ADHD?
[52] Margaret Grace	Aviation Podiatry: is There a Need?
[53] Gizem Gülsuna	Face Off: Dietitian versus Obesity!
[54] Jayashri Devi Sharma	Developmental Postures and Adaptations for Microgravity; Performance in Water, and Aero-Sports, for Aerospace
[55] Syeeda Uzma Khan	Spread of Infection During Air Travel Among Aircrew
[56] Carla Pontes	Return to Work After Cancer: Safety Issues Regarding Innovative Therapies
[57] Carla Pontes	Taking Corporate Social Responsibility to the Next Level in the Airplane Industry: Turning the Tide on Plastic
[58] Andreas Nidos	Thinking and Feeling Inside the Cockpit: Two-dimensional Representation of Psychological Effect and Cognitive Error in the 100 Most Fatal Civil Aviation Accidents
[59] Arthur Formanek	Microgravity Air Trap for Transfusion in Spaceflight
[60] Zdzislaw Kobos	Achievements Motivation and Styles of Coping with Stress by Aviation Students During Exams
[61] Boris Oniščenko	Aeromedical Training in Czech Air Force
[62] Harri Rintala	Glider Pilots' Psychologic Performance on the Way to World Championships
[63] Kanzul Shafiq	Work-Related Musculoskeletal Problems – Prevalence and Risk Factors Among PIA Cabin Crew
[64] Benjamin Stork	Obstructive Sleep Apnea in Army Aviators: A Review of Current Literature, Demographic Analysis and Pre-Publication Review of New Policy
[65] Michael J A Trudgill	The United Kingdom Civil Aviation Authority (UK CAA) Aeromedical Examiner (AME) Audit Programme
[66] Marion Venus	Correlations of Flight Time Limitations, Fatigue, Employment Conditions and Airline Pilots' Health & Wellbeing
[67] Andy Whale	The Inscrutable 1% Rule