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AMUSE Conference 2021

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Programme

Updated: 17th Mar 2021

Time shown in the tables below:

- in **BOLD** refers to Singapore Time – UTC/GMT +8hrs
- with **(PARENTHESES)** refers to Washington, D.C Time – UTC/GMT -4hrs

Session 1

Tuesday, 16 March 2021		Perspective and Initiatives of Aviation Regulators		
Moderator: Prof Holden Li - NTU				
Session	Start	End	Keynote Speaker	Topic
Welcome Speech 1	2130 (0930)	2140 (0940)	Prof Vu Duong - ATMRI	
Welcome Speech 2	2140 (0940)	2150 (0950)	Colonel Stephen Luxion - ASSURE	
Opening	2150 (0950)	2155 (0955)	Dr Gerardo Olivares - NIAR	
Presentation 1.1	2200 (1000)	2220 (1020)	Ms Sabrina Saunders-Hodge - FAA	FAA UAS/AAM/UAM Integration Research Overview
Presentation 1.2	2220 (1020)	2240 (1040)	Mr Antonio Marchetto - EASA	The European Regulatory Framework for UAS Integration
Presentation 1.3	2240 (1040)	2300 (1100)	Mr Carlos Ruella - Transport Canada	Canada RPAS Integration Overview
Presentation 1.4	2300 (1100)	2320 (1120)	Mr Maran Paramanathan - CAAS	Overview of Singapore's UAS Integration Approach: Challenges and Priorities
Break	2320 (1120)	2325 (1125)		Phototaking
Presentation 1.5	2325 (1125)	2345 (1145)	Dr John Wang - ATMRI	Highlight & Showcase: ATMRI UAS Program
Presentation 1.6	2345 (1145)	0005 (1205)	Mr Billy Klauser - ASSURE	Highlight & Showcase: FAA ASSURE Program
Session Closing	0005 (1205)	0010 (1210)		

Session 2

Wednesday, 17 March 2021		Research and Assessment of Collision Risks		
Moderator: Prof Yoonjin Yoon - KAIST				
Session	Start	End	Keynote Speaker	Topic
Presentation 2.1	1830 (0630)	1855 (0655)	Prof Hyunchul Shim - KAIST	Vision-based Detect and Avoid for Civil Remotely Piloted Aircraft Systems
Presentation 2.2	1855 (0655)	1920 (0720)	Prof Yulong Li - Northwestern Polytechnical University	Numerical & Experimental Investigation of the Dynamic Response of Tail Leading Edge during UAS Airborne Collision
Presentation 2.3	1920 (0720)	1945 (0745)	Prof Henk Blom - TU Delft	Third Party Risk of Commercial UAS Operations
Presentation 2.4	1945 (0745)	2010 (0810)	Prof Kin Huat Low - NTU	R&D on Collision Risks for UAS Operations
Session Discussion	2010 (0810)	2040 (0840)	Panel Members: Keynote Speakers from Session #2 (Moderator: Prof Yoonjin Yoon)	
Break	2040 (0840)	2100 (0900)		

Session 3

Wednesday, 17 March 2021		Airborne Collision		
Moderator: Dr John Wang - ATMRI				
Session	Start	End	Keynote Speaker	Topic
Presentation 3.1	2100 (0900)	2125 (0925)	Dr Gerardo Olivares - NIAR	ASSURE sUAS Airborne Collision Research
Presentation 3.2	2125 (0925)	2150 (0950)	Mr Bill Austen - QinetiQ	Vulnerability of Manned Aircraft to Drone Strikes - An Overview of QinetiQ/EASA Activities
Presentation 3.3	2150 (0950)	2215 (1015)	Dr Azzedine Dadouche - NRC	Air-to-Air Collisions: Quadcopter Drones VS. Part 25 Category Aircraft
Presentation 3.4	2215 (1015)	2240 (1040)	Mr Mohd Hasrizam Che Man - ATMRI	Singapore ATMRI Airborne Collision Research
Break	2240 (1040)	2310 (1110)		

Session 4

Wednesday, 17 March 2021		Ground Collision		
Moderator: Mr Luis Gomez - NIAR				
Session	Start	End	Keynote Speaker	Topic
Presentation 4.1	2310 (1110)	2335 (1135)	Mr David Arterburn - UAH	sUAS Operations over People, Challenges and Opportunities
Presentation 4.2	2335 (1135)	0000 (1200)	Dr Fabien Coussa - ONERA	Ground Impact Study I: Experimental Analysis of the Severity of a sUAS Impact with a Human Being
Presentation 4.3	0000 (1200)	0025 (1225)	Mr Mike Girbert - MITRE	Modelling Risk-based Approach for sUAS
Presentation 4.4	0025 (1225)	0050 (1250)	Prof Ryan Wallace - ERAU	sUAS Operational Trends: A Multi-Year Detection Study in Controlled Airspace
Break	0050 (1250)	0055 (1255)		
Panel Discussion	0055 (1255)	0145 (1345)	Panel Members: Keynote Speakers from Session #3 and Session #4 (Moderator: Mr Luis Gomez)	Open Forum Group Discussion
Closing	0145 (1345)	0155 (1355)	Prof Kin Huat Low - NTU	

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