

**PROGRAMME**  
**SPECIALISTS' MEETING on**  
**DRONE DETECTABILITY: MODELLING THE RELEVANT SIGNATURE**  
**(MSG\_SET-183 RSM)**  
*VIRTUAL Mode via WebEx*  
 Time are in CET (GMT+1)

<b>Tuesday 27<sup>th</sup> April 2021</b>				
<b>Session 1</b>				
	14:30	Introduction		
K1	14:35	Keynote 1: Counter Unmanned Aerial Systems (UAS) Threats	Rob Olthoff	<a href="mailto:WRJ.Olthoff@mindef.nl">WRJ.Olthoff@mindef.nl</a>
1	15:15	Improving the simulations of radar signatures of small drones	Francesco Fioranelli	<a href="mailto:F.Fioranelli@tudelft.nl">F.Fioranelli@tudelft.nl</a>
2	15:35	Modelling of Drone Bistatic RCS Fluctuations for UHF Passive Radar Scenarios' Simulation	M. Pilar Jarabo-Amores	<a href="mailto:mpilar.jarabo@uah.es">mpilar.jarabo@uah.es</a>
3	15:55	High-detail simulations of UAV RCS signatures, and comparisons against measurements	Peter Speirs	<a href="mailto:peter.speirs@iap.unibe.ch">peter.speirs@iap.unibe.ch</a>
	16:15	<i>Comfort Break</i>		
4	16:30	Drone RCS statistical behaviour	Pavel Sedivy	<a href="mailto:psedivy@retia.cz">psedivy@retia.cz</a>
5	16:50	Study of radar signatures of drones equipped with threat payloads	Duncan A. Robertson	<a href="mailto:dar@st-andrews.ac.uk">dar@st-andrews.ac.uk</a>
6	17:10	Unmanned Aircraft (UA) GPS telemetry data for track modelling and classification	Pascale Sévigny	<a href="mailto:pascale.sevigny@ecf.forces.gc.ca">pascale.sevigny@ecf.forces.gc.ca</a>
7	17:30	UAV detection by Micro-Doppler Signatures Application	Stanislava Gazovova	<a href="mailto:Stanislava.Gazovova@aos.sk">Stanislava.Gazovova@aos.sk</a>
	17:50	<i>End of Day 1</i>		
<b>Wednesday 28<sup>th</sup> April 2021</b>				
<b>Session 2</b>				
	14:30	Introduction		
K2	14:35	Keynote 2: New Generation of C-UAS to Defeat of Low Slow and Small (LSS) Air Threats	Jacco Dominicus	<a href="mailto:Jacco.Dominicus@nlr.nl">Jacco.Dominicus@nlr.nl</a>
8	15:15	Virtual microphone signals of flying drones	Kurt Heutschi	<a href="mailto:Kurt.Heutschi@empa.ch">Kurt.Heutschi@empa.ch</a>
9	15:35	Acoustic signature measurements and modelling of sUAS vehicles	James Stephenson	<a href="mailto:james.h.stephenson@nasa.gov">james.h.stephenson@nasa.gov</a>
10	15:55	Micro-Doppler Detection of Small UAVs	John Chadwick	<a href="mailto:Jchadwick1@dstl.gov.uk">Jchadwick1@dstl.gov.uk</a>
	16:15	<i>Comfort Break</i>		
11	16:30	Passive Sensor Processing and Data Fusion for Drone Detection	Benjamin Knödler	<a href="mailto:Benjamin.Knoedler@fkie.fraunhofer.de">Benjamin.Knoedler@fkie.fraunhofer.de</a>
12	16:50	Commercial UAVs Multispectral	Miroslav Krátký	<a href="mailto:miroslav.kratky@unob.cz">miroslav.kratky@unob.cz</a>

		detection		
13	17:10	Drone detectability feasibility study using passive radars operating in WIFI and DVB-T band	Stanislaw Rzewuski	<a href="mailto:szewuski@rstechnologies.pl">szewuski@rstechnologies.pl</a>
14	17:30	UAV Detection in Millimetre Wave Radar Bands	Michael Caris	<a href="mailto:michael.caris@fhr.fraunhofer.de">michael.caris@fhr.fraunhofer.de</a>
	17:50	<i>End of Day 2</i>		
		<b>Thursday 29<sup>th</sup> April 2021</b>		
		<b>Session 3</b>		
	14:30	Introduction		
15	14:35	Detection and classification of drones and birds at a far distance using radar data	Iraj Mantegh	<a href="mailto:Iraj.Mantegh@cnrc-nrc.gc.ca">Iraj.Mantegh@cnrc-nrc.gc.ca</a>
16	14:55	Detection and characterization of a UAS RF FHSS communication link	Vincent van der Knaap	<a href="mailto:vincent.vanderknaap@tno.nl">vincent.vanderknaap@tno.nl</a>
17	15:15	Machine Learning Empowered Radio Frequency Signal Classification for UAS Detection	Sachin Shetty	<a href="mailto:sshetty@odu.edu">sshetty@odu.edu</a>
18	15:35	SET-260: A Measurement Campaign for EO/IR Signatures of UAVs	Alexander Borghgraef	<a href="mailto:Alexander.Borghgraef@mil.be">Alexander.Borghgraef@mil.be</a>
19	15:55	Electro-optical and RF sensors assessment in counter unmanned autonomous vehicle context	Guillaume Gagné	<a href="mailto:guillaume.gagne@drdc-rddc.gc.ca">guillaume.gagne@drdc-rddc.gc.ca</a>
	15:55	<i>Comfort Break</i>		
20	16:10	Fully Automatic Electro-Optical Drone Detection System	Garik Markarian	<a href="mailto:garik@rinicom.com">garik@rinicom.com</a>
21	16:30	A Cooperative Time-Frequency Approach to Detect, Recognize and Track Drones with Audio Sensor Networks	Claudio S. Malavenda	<a href="mailto:claudiosanto.malavenda@gmail.com">claudiosanto.malavenda@gmail.com</a>
	16:50	Discussion		
	17:40	Closing Remarks		
	17:45	<i>End of RSM</i>		