



DAY 1 – MONDAY, 23 MARCH 2015		
OPENING SE	SSION	
09:30 – 09:40	Welcome Remarks Dr. Olumuyiwa Benard Aliu, President of the Council, ICAO	
09:40 - 10:30	Michael Whitaker, Deputy Administrator, Federal Aviation Administration (FAA), United States (US) (confirmed) Dave Vos, Head of Project Wing, Google (confirmed) Coffee Break – Exhibitor Demonstrations Sponsored by: CAE RPAS - what is the world doing and what is needed? Moderator Stephen Creamer, ANB, ICAO Presentations	
10:30 - 11:00		
11:00 - 12:30		
12:30 - 14:00	Lunch – Exhibitor Demonstrations Sponsored by: ESRI – Environmental Systems Research Institute	



**Remotely Piloted Aircraft Systems Symposium** ICAO Headquarters, Montréal, Canada 23 – 25 March 2015

RPAS201

SESSION 2       Setting the scene         Showcasing a diverse set of current and near-term operations from around the world that highlights the need for a comprehensive and harmonized regulatory framework to support growth and development.         Moderator         Council Representative, Representative of on the Council of ICAO         Presentations         • Scott Dann, Director, Strategic Development, General Atomics Aeronautical Systems, Inc. (confirmed)         • Takashi Kohno, Researcher at Institute of Aeronautical Technology, Japan Aerospace Exploration Agency (JAXA) (confirmed)
Showcasing a diverse set of current and near-term operations from around the world that highlights the need for a comprehensive and harmonized regulatory framework to support growth and development.         Moderator         Council Representative, Representative of on the Council of ICAO         Presentations         • Scott Dann, Director, Strategic Development, General Atomics Aeronautical Systems, Inc. (confirmed)         • Takashi Kohno, Researcher at Institute of Aeronautical Technology, Japan Aerospace Exploration
14:00 – 15:30       Council Representative, Representative of on the Council of ICAO         14:00 – 15:30       Presentations         • Scott Dann, Director, Strategic Development, General Atomics Aeronautical Systems, Inc. (confirmed)         • Jon Resnick, Position, DJI Innovations (confirmed)         • Takashi Kohno, Researcher at Institute of Aeronautical Technology, Japan Aerospace Exploration
<ul> <li>Scott Dann, Director, Strategic Development, General Atomics Aeronautical Systems, Inc. (confirmed)</li> <li>Jon Resnick, Position, DJI Innovations (confirmed)</li> <li>Takashi Kohno, Researcher at Institute of Aeronautical Technology, Japan Aerospace Exploration</li> </ul>
<ul> <li>Alvaro da Silva Marques, UAS Manager, Brazilian Federal Police (confirmed)</li> <li>Ian Davies, Position, Easyjet (invited)</li> </ul>
Coffee Break – Exhibitor Demonstrations         15:30 – 16:00         Sponsored by: AeroVironment
Setting the scene         Showcasing a diverse set of current and near-term operations from around the world that highlights the need for a comprehensive and harmonized regulatory framework to support growth and development.         Moderator         Margaret Jenny, President, RTCA (confirmed)         Presentations         • Paola Santana, Position, Matternet (confirmed)         • Marc Moffatt, Positions, ICATS (confirmed)         • Jay Shively, Human Systems Integration Lead, National Aeronautics and Space Administration (NAS US (confirmed))         • Rob Eagles, Director, ATM Infrastructure, International Air Transport Association (IATA) (confirmed)
17:00 – 17:30       ICAO RPAS Panel         • Leslie Cary, RPAS Programme Manager, ICAO (confirmed)         • Randy Willis, ICAO RPAS Panel Chairman (confirmed)
<b>17:30</b> <i>Welcome Reception</i> – <i>Exhibitor Demonstrations</i>





Sponsored by:			
End of Day 1			
DAY 2 – TUESDAY, 24 MARCH 2015 Thread 1			
WORKSHOP	1 Airworthiness		
09:00 – 10:30	AIRWORTHINESS – getting them off the ground and back safely, The Airworthiness workshop will highlight the regulatory challenges and consid approvals for RPA, RPS and RPAS as a complete system. Regulators and manufa through which certification was achieved.	lerations for type and airworthiness	
	Moderator John Hickey, Deputy Associate Administrator for Aviation Safety, F	AA US	
	<ul> <li><u>Presentations</u></li> <li>Markus Farner, Chairman of FOCA RPAS Working Group, Federa Switzerland (confirmed)</li> </ul>		
	<ul> <li>Stephen George and Bruno Moitre, ICAO RPAS Panel Airworthiness</li> <li>Mike Gadd, Manager Aircraft Certification, Civil Aviation Authority,</li> <li>Andrew Jones, Position, Thales UK (confirmed)</li> </ul>		
10:30 - 11:00	Coffee Break – Exhibitor Demonstrations Sponsored by: CANSO		
11:00 - 12:30	Moderator Luc Tytgat, Director, Strategy and Safety Management, EASA		
	<ul> <li>Presentations</li> <li>Doug Davis, Director, Office of Airworthiness, Northrop Grumman (c</li> <li>Ron van de Leijgraaf, Position, Joint Authorities for Rulemaking (confirmed)</li> <li>Otmar Leitner, Position, Schiebel (confirmed)</li> <li>Benny Davidor, Head, Unmanned Air Systems Department, CAA, Isro</li> </ul>	g on Unmanned Systems (JARUS)	
	Michael Allouche, IAI-MALAT Airworthiness Manager, Israel Aerosp		
12:30 - 14:00	<b>Lunch</b> – Exhibitor Demonstrations Offered by: ICAO		





DAY 2 – TUESDAY, 24 MARCH 2015 Thread 1 (continued)		
WORKSHOP	2 Operations	
14:00 - 15:30	<b>OPERATIONS – getting them off the ground and back safely: the</b> The Operations workshop will highlight the regulatory challenges and considera and approval. Regulators and operators will present the processes through which achieved.	ations for RPAS operator certification
	Moderator Javier García Soruco, Representative of Bolivia on the Council of IC	CAO
	<ul> <li>Presentations</li> <li>Rune Storvold, Position, Arctic Council Arctic Monitoring and (confirmed)</li> <li>Gerry Corbett, ICAO RPAS Panel Operations Rapporteur (confirmed)</li> <li>Muriel Preux, Director, RPAS Programme, Direction Générale de (confirmed)</li> <li>Bastien Mancini, Position, Delair Tech (confirmed)</li> <li>Craig Spence, Secretary General, International Council of Aircraft Ov (confirmed)</li> </ul>	e <sup>P</sup> Aviation Civile (DGAC), France
15:30 - 16:00	Coffee Break – Exhibitor Demonstrations Sponsored by: General Atomics	
<ul> <li>Moderator Maria Helena Faleiro T. de Almeida, Representative of Portugal on the Council of ICAO Presentations         <ul> <li>Yoge Patel, CEO, Blue Bear (confirmed)</li> <li>Jim Williams, Manager, Unmanned Aircraft Systems Integration Office FAA, US (confirmed)</li> <li>Paul McDuffee, Position, InSitu (confirmed)</li> <li>Amir Valiev, President, Unmanned Aircraft Systems Association of Russia (UASA) ( confirmed)</li> <li>Michael Rossel, Deputy Director General ACI World, Airport Council International (ACI) (confirmed)</li> </ul> </li> </ul>		
	End of Day 2 Thread 1	





	DAY 2 – TUESDAY, 24 MARCH 2015	Thread 2	
WORKSHOP 3 ATM Integration			
09:00 – 10:30	<b>ATM INTEGRATION – getting to know the rules and fitting in safe</b> The ATM integration workshop will explain the step-by-step approach required operations into the air navigation system.	-	
	Moderator Philippe Merlo, Director of Air Traffic Management, Eurocontrol		
	<ul> <li>Presentations</li> <li>Mike Lissone, ICAO RPAS Panel ATM Rapporteur (confirmed)</li> <li>Doug Davis, Position, Civil Air Navigation Services Organisation (CAN)</li> <li>Parimal Kopardeka, Position, NASA (confirmed)</li> <li>Cyro Cruz, Position, Department of Airspace Control (DECEA), Brazil</li> </ul>		
10:30 - 11:00	Coffee Break – Exhibitor Demonstrations Sponsored by: CANSO		
11:00 – 12:30	<ul> <li>Moderator Raphael W. Bokango, Representative of Tanzania on the Council of ICAO</li> <li><u>Presentations</u></li> <li>Ruth Stilwell, Observer on the Air Navigation Commission (ANC), International Federation of Air Traffic Control Associations (IFATCA) (confirmed)</li> <li>Thomas Mildenberger, Vice-President, Vereinigung Cockpit, International Federation of Airline Pilot Associations (IFALPA) (confirmed)</li> <li>Martin Radusch, ATM Policy Staff Officer, Bundeswehr, Germany (confirmed)</li> <li>Brian Guimond, Manager, Military Operations and UAS, Nav Canada, Canada (confirmed)</li> <li>Catherine Ronflé-Nadaud, Professor, École Nationale de l'Aviation Civile (ENAC), France (confirmed)</li> </ul>		
12:30 - 14:00	Lunch – Exhibitor Demonstrations Offered by: ICAO		





	DAY 2 – TUESDAY, 24 MARCH 2015	Thread 2 (continued)
WORKSHOP	4 Civil/Military	
	<b>CIVIL/MILITARY – working together for a common future</b> The Civil/Military workshop will present experience gained by civil and military to facilitate the safe integration of RPAS in non-segregated airspace.	stakeholders working collaboratively
14:00 - 15:30	<ul> <li>Moderators</li> <li>Giorgio Cioni, Head of Aerospace Capabilities Section, Defence Treaty Organization (NATO)</li> <li>Catalin Radu, Deputy Director Aviation Safety, Air Navigation Bure</li> <li>Presentations <ul> <li>Allan Storm, International Staff - Aerospace Capabilities, NATO (conglimed)</li> <li>Alban Galabert, RPAS Advisor, Direction de la Sécurité de l'Aé (confirmed)</li> <li>Randy Willis, UAS Integration Office, FAA, US (confirmed)</li> <li>Lance King, Policy Board for Federal Aviation, DoD, US (confirmed)</li> <li>Robert Sant, COO, Malta ATS (confirmed)</li> </ul> </li> </ul>	eau ICAO firmed)
15:30 - 16:00	Coffee Break – Exhibitor Demonstrations Sponsored by: General Atomics	
16:00 – 17:30	<ul> <li><u>Presentations</u></li> <li><u>Mike Bishop</u>, Position, Japan Self Defense Force, JCAB and USAF (inv</li> <li>Jonathan McMullan, Wing Commander, Royal Australian Air Force (</li> <li>Dominique Colin, Position, Eurocontrol (confirmed)</li> <li>Mitchell Fox, Position, United Nations Headquarters, New-York (invi</li> <li>Nichola Rennet, RPAS expert at Military Aviation Authority, Ministry</li> </ul>	(RAAF), Australia (confirmed) ited)
	End of Day 2 Thread 2	





DAY 2 – TUESDAY, 24 MARCH 2015 Thread 3		
WORKSHOP 5 Technology		
09:00 – 10:30	<b>TECHNOLOGY – a critical element for integration</b> The Technology workshop will present technical and operational challenges pos & avoid. It will highlight the need for collaboration between standards-making of to facilitate safe integration of RPAS in non-segregated airspace.	
	<b>Moderator</b> <b>Alexey Novgorodov</b> , Representative of the Russian Federation on a	the Council of ICAO
	<ul> <li><u>Presentations</u></li> <li><u>Michael Neale</u>, <i>ICAO RPAS Panel Command &amp; Control (C2) Rapporte</i></li> <li><u>Vaughn Maiolla</u>, <i>Communications Panel Secretary</i>, <i>ICAO (confirmed</i>)</li> <li><u>Nico Nijenhuis</u>, <i>Position</i>, <i>Clear Flight Solutions (confirmed</i>)</li> <li><u>Denis Koehl</u>, <i>Senior Advisor for Military Affairs</i>, <i>Single European Sk</i> (<i>SESAR JU</i>), <i>EU (confirmed</i>)</li> <li><u>Paul McDuffee</u>, <i>CoChair SC 228</i>, <i>RTCA (confirmed</i>)</li> </ul>	
10:30 - 11:00	Coffee Break – Exhibitor Demonstrations Sponsored by: CANSO	
11:00 - 12:30	<ul> <li>Moderator</li> <li>Víctor Aguado, Representative of Spain on the Council of ICAO</li> <li>Presentations</li> <li>Gerhard Lippitsch, ICAO RPAS Panel Detect &amp; Avoid Rapporteur (confirmed)</li> <li>Alexander Engel, Technical Program Manager, European Organisation for Civil Aviation Equipment (EUROCAE) (confirmed)</li> <li>Brandon Suarez, Position, General Atomics (confirmed)</li> <li>Dieter Moormann, Professor, RWTH Aachen University (confirmed)</li> <li>Gokhan Inalhan, Professor, Istanbul Technical University (confirmed)</li> </ul>	
12:30 - 14:00	Lunch – Exhibitor Demonstrations Offered by: ICAO	





	DAY 2 – TUESDAY, 24 MARCH 2015	Thread 3 (continued)
WORKSHOP	6 National Regulations	
	NATIONAL REGULATIONS – sharing real world practices This workshop will allow national authorities to present their current approache particularly for small, simple systems. The unmanned aviation industry is growin information and working collaboratively, States may pursue a harmonized appro property and other aircraft.	ng exponentially. By sharing
14:00 - 15:30	<ul> <li>Moderator</li> <li>Knut Magne Skaar, Representative of Norway on the Council of ICA</li> <li>Presentations <ul> <li>Éric Sivel, Chairman, JARUS (confirmed)</li> <li>Sam Twala, Position, CAA, South Africa (confirmed)</li> <li>Jim Williams, Manager, Unmanned Aircraft Systems Integration Offi</li> <li>Fabien Guillotin, Position, DGAC, France (confirmed)</li> </ul> </li> </ul>	
15:30 - 16:00	Coffee Break – Exhibitor Demonstrations Sponsored by: General Atomics	
16:00 – 17:30	Moderator Olivier Caron, Representative of France on the Council of ICAO <u>Presentations</u> Mike Gadd Manager Aircraft Certification, Civil Aviation Authority, United Kingdom (confirmed)	
End of Day 2 Thread 3		





	DAY 2 – TUESDAY, 24 MARCH 2015	Thread 4
WORKSHOP 7 Licensing		
	<b>LICENSING – remote pilots, a new licence to fly</b> The Licensing workshop will discuss the approach for licensing a new category of pilot, and competencies for remote pilots and RPA observers.	f aviation professional, the remote
09:00 - 10:30	Moderator Wolfram Celedón, <i>Representative of Chile on the Council of ICAO</i>	
	<ul> <li>Presentations</li> <li>Henri Rodenburg, ICAO RPAS Panel Licensing Rapporteur (confirmed)</li> <li>Nicole Barrette-Sabourin, Technical Officer Operational Safety, ANB</li> <li>John Illson, Chief, Operational Safety Section, ANB ICAO (confirmed)</li> <li>Lance King, Policy Board for Federal Aviation, DoD, US (confirmed)</li> <li>André Clot, Position, EuroUSC (confirmed)</li> </ul>	
10:30 - 11:00	Coffee Break – Exhibitor Demonstrations	
	Sponsored by: CANSO	
WORKSHOP	8 Safety Management	
11:00 - 12:30	SAFETY MANAGEMENT – a proactive start Safety management has become a common practice in manned aviation. For the the operators need to develop and implement safety management practices over authorities. Moderator Aysha Alhameli, Representative of the United Arab Emirates on the	erseen by the civil aviation
	<ul> <li><u>Presentations</u></li> <li>Miguel Ramos, Technical Officer Safety, ANB ICAO (confirmed)</li> <li>Éric Perrin, Position, EUROCONTROL (confirmed)</li> <li>Robert Dodd, Position, The Aloft Group (confirmed)</li> <li>Mike Gadd, Manager Aircraft Certification, Civil Aviation Authority, U</li> </ul>	Inited Kingdom (confirmed)
12:30 - 14:00	Lunch – Exhibitor Demonstrations Offered by: ICAO	





	DAY 2 – TUESDAY, 24 MARCH 2015	Thread 4 (continued)	
WORKSHOP 9 Security			
	<b>SECURITY – system protection</b> This workshop will address aviation security considerations, such as the physica station, communication links and their associated encryption and personnel pro-	-	
14:00 – 15:30	Moderator Mark Rodmell, Representative of the United Kingdom on the Court	ncil of ICAO	
	<ul> <li>Presentations</li> <li>Steven Berti, Chief, Aviation Security and Facilitation Policy Section, (confirmed)</li> <li>Alistair Munro, ICAO RPAS Panel C2 Rapporteur (confirmed)</li> <li>Juan Domingo-Lobato, INFOSEC Expert, Airbus Defence &amp; Space {continued}</li> <li>Erwan Le Ho, Position, Thales Alenia Space (confirmed)</li> </ul>		
15:30 - 16:00	Coffee Break – Exhibitor Demonstrations Sponsored by: General Atomics		
WORKSHOP	10 Legal		
16:00 – 17:30	<ul> <li>LEGAL – working with the existing framework</li> <li>This workshop will consider questions related to the applicability of the Conven legal liability and responsibility as well as privacy rights.</li> <li>Moderator</li> <li>Mark Allen, Representative of Canada on the Council of ICAO</li> <li><u>Presentations</u></li> <li>Christopher Petras, Legal Officer, Legal and External Relations Burget</li> </ul>		
	<ul> <li>Anna Masutti, Professor, University of Bologna, Italy (confirmed)</li> <li>Mark W. Bury, Assistant Chief Counsel, FAA (confirmed)</li> <li>Chris Proudlove, Position, Global Aerospace (confirmed)</li> <li>Laurent Archambault, Position, Selene Avocats (confirmed)</li> </ul>		
	End of Day 2 Thread 4		





	DAY 3 – WEDNESDAY, 25 MARCH 2015	
SESSION 3	INTEGRATION	
	Coffee Break – Exhibitor Demonstrations	
09:15 – 10:00	Sponsored by: Thales Alenia Space	
	<b>INTEGRATION</b> This session will bring together the key issues identified in each of the workshops to form a shared comprehensive picture of where we are and the way forward.	
10:00 - 12:00	Moderators Nancy Graham, Director ANB, ICAO Stephen Creamer, ANB, ICAO Panelists:	
	Moderators from day 1 and day 2	
12:00 - 14:00	Lunch – Exhibitor Demonstrations Offered by: ICAO	
	DAY 3 – WEDNESDAY, 25 MARCH 2015	
SESSION 4	SESSION 4 NEXT STEPS AND CONCLUSIONS	
14:00 - 15:15	<b>NEXT STEPS AND CONCLUSIONS</b> Based on the comprehensive picture, this session will discuss how to proceed at the industry, national, regional and global levels.	
	Speaker Stephen Creamer, ANB, ICAO	
	Closing	
15:15 – 15:30	Raymond Benjamin, Secretary General, ICAO	
End of Day 3		