

**ICAO's Third Remotely Piloted Aircraft Systems (RPAS/3) Symposium**

Chengdu, Sichuan Province, China

10 – 12 September 2018

DAY 1 – Monday, 10 September 2018

09:30 – 10:00	<p><b>Welcome Remarks</b></p> <p>Dr. Olumuyiwa Benard Aliu, <i>President of Council, ICAO</i></p> <p>Chinese Representative(s) – <i>TBD</i></p>
10:00 – 10:30	<p><b>Keynote Speech</b></p> <p>Captain Houston Mills, <i>Global Aviation Strategy &amp; Public Policy Director, United Parcel Service (UPS)</i></p>
10:30 – 10:40	<p>Dr. Fang Liu, <i>Secretary General, ICAO</i></p>
10:40 – 11:15	<p><b>Coffee Break</b></p>
11:15 – 12:30	<p><b>CATEGORIZATION – responding to the rapid expansion and growth of the unmanned industry</b></p> <p><i>The speed at which unmanned aviation is developing challenges the existing operational environment. A new paradigm for regulating these aircraft is needed that considers the aircraft and operation jointly.</i></p> <p><b>Moderator:</b> Mr. Nico Voorbach, <i>Director ICAO Affairs, CANSO</i></p> <p><b>Presentations:</b></p> <p>Mr. Mike Lissone, <i>Secretary General, JARUS</i></p> <p>Mr. Yang Honghai, <i>Regional Director North Asia, Safety and Flight Operations, IATA</i></p> <p>Mr. Scott Duffy, <i>Manager Remotely Piloted Aircraft Operations, CASA</i></p> <p>Mr. Randy Wills, <i>Manager, Emerging Technologies, FAA</i></p>
12:30 – 14:00	<p><b>Lunch</b></p>

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14:00 – 15:30	<p><b>RPAS REGULATORY FRAMEWORK – Standards development to implementation</b></p> <p><i>Licensing and training of remote pilots is one of the pillars to enable safe RPAS operations. As ICAO's regulatory framework is evolving with SARPs on these two topics already adopted, participants will share their experiences on strategies to transition from regulatory development to implementation.</i></p> <p><b>Moderator:</b> Mr. Tai Feng, Air Navigation Commissioner, Second Vice President and Chairman of the Ad hoc Working Group on Implementation, ICAO</p> <p><b>Presentations:</b> Mr. Denis Jauvin, Technical Officer, RPAS, ICAO Mr. Patrice Desvallées, Program Director, Strategic and Emerging Projects, DGCA France Mr. Melvin Wong, Head (Unmanned Aircraft Systems), Airworthiness/Flight Operations, CAAS Dr. Kristy Kiernan, Program Chair, the Master of Science in Unmanned Systems, Embry-Riddle Aeronautical University</p>
15:30 – 16:00	<p><b>Coffee Break</b></p>
16:00 – 17:30	<p><b>BENEFITS AND CHALLENGES – implementing harmonized regulations</b></p> <p><i>Aviation is an international activity which is supported through use of harmonized regulations. Panellists will discuss the benefits of working regionally and globally to implement regulations and oversee operations.</i></p> <p><b>Moderator:</b> Mr. Arun Mishra, Regional Director, ICAO Bangkok Office</p> <p><b>Panel discussion:</b> Mr. Christopher Petras, Legal Officer, ICAO Xxxxx, South Africa Dr. Liu Hao, Chair of the ICAO ASIA/PACIFIC UAS Task Force Ms. Wimen Fong Leung, Legal Advisor, ACSA, COCESNA</p>
<p><b>End of Day 1</b></p>	

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DAY 2 – Tuesday, 11 September 2018

09:00 – 09:10	<b>Welcome Remarks</b>
09:10 – 10:30	<p><b>RPAS OPERATIONS – beyond the paradigm of manned aviation</b></p> <p><i>The unique characteristics of RPAS components, which differ in many ways from manned aviation, bring new challenges for RPAS operators. This session will discuss such challenges and new ways to safely accomplish the gradual transition of accommodation to integration.</i></p> <p><b>Moderator:</b> Mr. Michael Gadd, Head of International Regulatory Affairs, Altitude Angel</p> <p><b>Presentations:</b>  Mr. Richard Eva, Aviation Manager, Shell Boeing (TBC)  Mr. Li Dongqi, Group Vice President of SF Express &amp; Chair of SF UAS, SF Express  Mr. Marzio Preatoni, Leonardo Helicopters</p>
10:30 – 11:00	<b>Coffee Break</b>
11:00 – 12:30	<p><b>INTEGRATION PLANS – issues to be addressed when integrating RPAS into the ATM system</b></p> <p><i>The absence of an on-board pilot will necessitate some unique procedures in the integration of RPA into non-segregated airspace. ANSPs will be invited to discuss the challenges and risks associated with integration. What should ANSPs do to minimize the risk in order to seamlessly integrate RPA into the existing ATM system?</i></p> <p><b>Moderator:</b> Ms. Leslie Cary, Programme Manager, Remotely Piloted Aircraft Systems, ICAO</p> <p><b>Panel discussion:</b>  Mr. Nico Voorbach, Director, ICAO Affairs, CANSO  Dr. Francis Schubert, Chief Corporate Officer, Skyguide  Mr. Mike Lissone, UAS ATM Integration Manager, Directorate Pan-European Single Sky, EUROCONTROL  Mrs. Catherine Ronfle-Nadaud, Direction de la Technique et de l'innovation, Domaine Etudes Européennes et Innovation, DGAC  ATMB China (TBC)</p>
12:30 – 14:00	<b>Lunch</b>

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14:00 – 15:30	<p><b>BUILDING A PERFORMANCE-BASED REGULATORY ENVIRONMENT FOR RPAS OPERATIONS – Are States ready?</b></p> <p><i>RPAS are creating a new industry with large economic potential. Their associated technologies and operating concepts are evolving rapidly. Globally, regulators are being challenged with the safe and efficient integration of RPAS into environments shared by a highly regulated and well-established manned aircraft industry. What regulatory and oversight solutions are currently available?</i></p> <p><b>Moderator:</b> Mr. Claude Hurley, President, Air Navigation Commission, ICAO</p> <p><b>Presentations:</b> Mr. Li Ning, Director, Division of Air Traffic Control, Office of Air Traffic Regulation, CAAC (TBC) Mr. Everett Rochon, Manager, Flight Standards General Aviation and Commercial Division, FAA, United States Mr. Damodaran Dilip Kumar, Joint General Manager (ATM), Airports Authority, India Mr. Scott Duffy, Manager Remotely Piloted Aircraft Operations (RPAS), Civil Aviation Safety Authority (CASA)</p>
15:30 – 16:00	<p style="text-align: center;"><b>Coffee Break</b></p>
16:00 – 17:30	<p><b>EMERGING TECHNOLOGIES – the balance between legacy and innovation</b></p> <p><i>Technological advances can improve the safety and efficiency of our airspace but they also bring challenges. This session will showcase emerging technologies, their potential capabilities and the gaps or shortcomings as we look for interoperable solutions.</i></p> <p><b>Moderator:</b> Mr. Filippo Tomasello, Senior Partner, EURO USC Italia</p> <p><b>Presentation:</b> Mr. Fredrik Nordström, Head of the Nordic Regional/Intercity business unit, Airbus Mr. Doug Davis, Director Airworthiness, Northrop Grumman Corporation Aerospace Systems Mr. Hyunchul Shim, Professor/Director, Dept of Aerospace Eng., Korea Advanced Institute of Science and Technology Mr. Pierre Fossier, Vice President, Chief Technology Officer, Thales – Land and Air Systems</p>
<b>End of Day 2</b>	

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DAY 3 – Wednesday, 12 September 2018

09:00 – 09:10	<p><b>Keynote Speech</b></p> <p>Boeing <i>(TBC)</i></p>
09:10 – 10:30	<p><b>RPAS OPERATIONS – Impact on other stakeholders</b></p> <p><i>When introducing any new type of airspace user into the existing air navigation system, potential safety or efficiency impacts on other airspace users may emerge. This session will investigate the disruptive impact of RPAS operations on other airspace users and potential mitigations for maintaining a safe and efficient system.</i></p> <p><b>Moderator:</b> Mr. Shane Sumner, Regional Officer Air Traffic Management, ICAO Bangkok Office</p> <p><b>Presentations:</b></p> <p>Mr. Jeffrey D. Richards, Air Traffic Controller and RPAS and UAVs Subject Matter Expert, IFATCA  Mr. Pirasuth Sasunee, Technical Advisor, IFALPA  Mr. SL Wong, Head of Technical &amp; Industry Affairs, ACI  Mr. Daniel Vaca, Head ATM Harmonization and Global Policy, IATA</p>
10:30 – 11:00	<p><b>Coffee Break</b></p>
11:00 – 12:30	<p><b>CIVIL AND MILITARY COLLABORATION – from legacy to partnership</b></p> <p><i>Civil and military cooperation contributes to safety as well as capacity and efficiency of airspace. Collaboration enhances these further. As RPAS are introduced into the civil aviation environment, military lessons learned, as well as operational inputs, will optimize our progress on a regulatory framework that addresses all stakeholders' needs safely and efficiently.</i></p> <p><b>Moderator:</b> Mr. Giorgio Cioni, Defence Investment Division Director of Armament and Aerospace Capabilities, North Atlantic Treaty Organization (NATO)</p> <p><b>Panel discussion:</b></p> <p>Mr. Jorge Humberto Vargas Rainho, Planning Division Advisor, Defense Ministry, Brazilian Air Force  Mr. Jorge Alexandre De Almeida Regis, Department of Airspace Control, Brazilian Air Force  Mr. Edgar Reuber, Senior Military Expert, Eurocontrol  Mr. Matthias Grall, Federal Ministry of Defence, Section Forces Policy, ATM  Mr. Andreas Udovic, DFS</p>
12:30 – 14:00	<p><b>Lunch</b></p>





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<b>14:00 – 15:00</b>	<b>FOCUS ON CHINA – Activities and lessons learned in China</b>  <i>Many exciting RPAS related activities are underway in China. What are they and what can the rest of the world learn from these activities?</i>  <b>Moderator: (TBC)</b>
<b>15:00 – 15:30</b>	<b>ATM / UTM – Preview of DRONE ENABLE/2</b>  <b>Preview ICAO RPAS/4 Symposium</b>
<b>15:30 – 16:00</b>	<b>Wrap-Up Session</b>
<b>End of Symposium</b>	

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