

IISL/ECSL SYMPOSIUM AT LSC, 13 APRIL 2015

ICAO/UNOOSA Aerospace Symposium
An Inter-Agency Effort on Space
Traffic Management

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UNITED NATIONS
Office for Outer Space Affairs



ICAO/UNOOSA Aerospace Symposium

- Held at ICAO Headquarters, Montreal, Canada, 18-20 March 2015
- Symposium attended by nearly 350 participants representing international intergovernmental organizations, government agencies, non-governmental organizations and commercial entities

- Opening addresses by:

Mr. Olumuyiwa Benard Aliu, President of the Council, ICAO

Ms. Simonetta Di Pippo, Director of UNOOSA

Ms. Nancy Graham, Director, Air Navigation Bureau, ICAO
(moderator)

Keynote speech by Ms. Julie Payette, former astronaut CSA

- Symposium structured in two substantive Themes with Panels and Concluding session



Objectives and intended outcomes

- To bring together representatives of the aviation and space transportation community with relevant national and international air- and space legislators and regulators
- To share and provide an overview of existing regulations and practices as well as safety management and systems engineering methods with regard to civil aviation, suborbital flights and development in space transportation
- To explore challenges and opportunities related to emerging space activities and provide possible ideas on how to address them
- To review the status of the existing relevant legal and regulatory frameworks at the international and national levels
- To provide insight into space and civil aviation sectors, including who is doing what, how to get involved, and when and why aviation regulators are involved, and when they are not
- To discuss and agree on possible follow-up activities



Themes and Panels

- Theme 1: “Uniting the community”, with panels on uniting the aerospace community and on regulatory practices in aerospace activities, moderated by Mr. Stephen Creamer, Appointed Director, Air Navigation Bureau, ICAO, Mr. Niklas Hedman, UNOOSA, and Mr. Paul Dempsey, Director, McGill Institute of Air and Space Law
- Theme 2: “Ensuring the safe launch and evolution of aerospace transport”, with panels on integration with aviation – aerospace transportation providers/ aerospace operators, launch site/air and space port operators, access and equity to aerospace transportation, and motivating the next generation, moderated by Mr. Eric Stallmer, President, Commercial Spaceflight Federation (CSF), Mr. Jose Mariano Lopez Urdiales, Founder and CEO, Zero2Infinity, Spain, Mr. Yuri Fattah, Programme manager, Multidisciplinary Priorities, ICAO, and Mohamed Elamiri, President, International Foundation for Aviation and Development
- Concluding session: “Putting it all together”, moderated by Ms. Simonetta Di Pippo, Director of UNOOSA, and Ms. Nancy Graham, Director, Air Navigation Bureau, ICAO



UNOOSA Panel on Regulatory Practices in Aerospace Activities

- Moderator: Mr. Niklas Hedman, UNOOSA

Panel

- Mr. Steven Freeland, professor of International Law, University of Western Sydney, Australia; Ms. Tanja Masson-Zwaan, Asst. Prof/Deputy Director, International Institute of Air and Space Law, Leiden University, President of IISL; Mr. Jeremy Stubbs, Programme lead Commercial Spaceflight regulation, UK Civil Aviation Authority; Mr. Charles leader, Director of Strategic Planning, Office of Commercial Space Transportation (AST) FAA, United States; Ms. Ueda, Permanent representative of Japan to ICAO, and Mr. Paul Dempsey, Director, McGill Institute of Air and Space Law

Overview

- The panel provided an overview of space law and air law (fundamental principles, jurisdiction, liability and insurance etc.); regulatory frameworks and practices in authorizing/licensing commercial space transportation and suborbital flights, examples of new activities such as reusable space transportation systems, safety requirements under air law



General Observations of the Symposium

- There is an increase number and types of aerospace vehicles and development, in particular also by non-governmental actors. There is also an increasing number and variation of proposed mission profiles (point-to-point transportation, space tourism applications, intercontinental transport etc). Several new spaceports (launch and landing sites) have been under development in recent years
- Safety is the fundamental and guiding principle for activities both in the air and space domain
- There will therefore be an increasing need for a seamless and efficient integration of air and space traffic
- The space transportation industry, in particular the non-governmental sector, will require legal and regulatory certainty to successfully plan and conduct its activities
- International organizations together with national legislators and regulators should provide guidance and direction
- Some national regulators (e.g US FAA) and their legal and regulatory frameworks were singled out as good examples that could be followed by other nations, taking into consideration that the implementation of legal and regulatory frameworks differ among countries



The Way Ahead

- The Symposium provided an excellent platform for continued dialogue among stakeholders of aviation and space communities
- The Symposium demonstrated a unique bilateral inter-agency coordination effort between two central UN entities (ICAO and UNOOSA)
- Follow-up Symposium to be hosted by the United Arab Emirates in 2016, jointly organized with ICAO and UNOOSA (possible 2nd follow-up Symposium to be held at Vienna in 2017)
- The ICAO Learning group (interactive informal platform for exchange of views, dialogue and sharing of experience among stakeholders nominated by States or international organizations) proved successful in preparing for the Montreal Symposium. The Learning Group will continue to be a platform for the preparation of the UAE Symposium and be lead jointly by UNOOSA and ICAO

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Thank You

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