

**10<sup>TH</sup> UNITED NATIONS WORKSHOP ON SPACE LAW**

***Contribution of Space Law and Policy to Space  
Governance and Space Security in the 21st Century***

**Organized by  
United Nations Office for Outer Space Affairs**

**In cooperation with  
United Nations Office for Disarmament Affairs**

**Co-sponsored by  
United Nations Institute for Disarmament Research  
and  
Secure World Foundation**

**FINAL PROGRAMME**

5 to 8 September 2016

Vienna International Centre  
Conference Room 3, C-Building, 7<sup>th</sup> floor  
Vienna, Austria

## **BACKGROUND AND OBJECTIVE**

Outer space is a fragile environment where the steps taken by one actor might have an impact on others, including users of space services on Earth. In that sense, the broader application of space operations and the increased strategic value of space has resulted in a growing need to enhance the safety of space operations, the security of the space environment and space assets, and the sustainability of outer space activities. Given the growing number of benefits derived from space science and technology applications, the conduct of space activities by States, intergovernmental and non-governmental entities as well as private sector continues to expand. In developing international and regional space cooperation States should assure that all actors conducting space activities comply with requirements of international space law.

International and regional cooperation for the peaceful uses of outer space helps to bring the benefits of space technology applications to a wide circle of stake-holders, both governmental and non-governmental, and to intensify and diversify national space programmes. Policy and regulatory frameworks at the national, regional and international level are of paramount importance to provide the necessary basis for States, particularly developing countries, to meet development goals and addressing challenges to humanity and sustainable development. In this process, it is necessary to continue to strengthen the inter-linkages between international space law and the conduct of space activities.

The 10<sup>th</sup> Workshop on Space Law forms part of a series of workshops under the space law capacity-building programme of the Office for Outer Space Affairs (UNOOSA). The Legal Subcommittee of the Committee on the Peaceful Uses of Outer Space, at its fifty-fifth session in 2016, noted with appreciation that the tenth United Nations Workshop on Space Law would be held at the United Nations Office at Vienna from 5 to 8 September 2016 and that the Workshop would address space law, and cover transparency and confidence-building measures in outer space activities.

The United Nations General Assembly, in its resolution on international cooperation in the peaceful uses of outer space, each year (latest 70/82) reaffirms the importance of international cooperation in developing the rule of law, including the relevant norms of space law and their important role in international cooperation for the exploration and use of outer space for peaceful purposes, and of the widest possible adherence to international treaties that promote the peaceful uses of outer space in order to meet emerging new challenges, especially for developing countries. The Assembly also recognizes that all States, in particular those with major space capabilities, should contribute actively to the prevention of an arms race in outer space with a view to promoting and strengthening international cooperation in the exploration and use of outer space for peaceful purposes.

The Assembly, in its resolution 70/82, further requests the Committee on the Peaceful Uses of Outer Space to continue to consider, as a matter of priority, ways and means of maintaining outer space for peaceful purposes, and agrees that the Committee should continue to consider the broader perspective of space security and associated matters that would be instrumental in ensuring the safe and responsible conduct of space activities, including ways to promote international, regional and interregional cooperation to that end. The Assembly encourages the Office for Outer Space Affairs to conduct capacity-building and outreach activities associated with space security and transparency and confidence-building measures in outer space activities, as appropriate, and within the context of the long-

term sustainability of outer space activities. Assembly resolutions on transparency and confidence-building measures in outer space activities (resolutions 68/50, 69/38, 70/53) encourage relevant entities and organizations of the United Nations system to coordinate, as appropriate, on matters related to the recommendations contained in the report of the Group of Governmental Experts on Transparency and Confidence-Building Measures in Outer Space Activities (A/68/189). This call is taken into account in meeting the objectives of the Workshop.

The Workshop will provide an overview of the legal regime governing the peaceful uses of outer space, will examine and compare various aspects of the broader perspective of space security in global space governance, including on transparency and confidence-building measures in outer space activities, and will address space law and policy in the context of UNISPACE+50 (*see box below*) with the following objectives:

- (a) To promote understanding, acceptance and implementation of the United Nations treaties and principles on outer space;
  - (b) To address space governance and the broader perspective of space security, including on norms of behaviour and space policy development;
  - (c) To consider space law and policy in the context of space economy, space society, space accessibility and space diplomacy;
  - (d) To study trends and challenges to the progressive development of space law;
- and
- (e) To assess further needs for capacity-building, assistance and outreach in space law and policy.

Participation in the Workshop will be by invitation only. The working language of the Workshop will be English. The Workshop report will be issued in all official languages of the United Nations to the fifty-sixth session of the Legal Subcommittee in 2017.

#### **UNISPACE+50**

The year 2018 will mark the 50th anniversary of the first United Nations Conference on the Exploration and Peaceful Uses of Outer Space - UNISPACE+50. The Committee on the Peaceful Uses of Outer Space (COPUOS) at its fifty-eighth session in June 2015 endorsed the plan of work for UNISPACE+50. UNISPACE+50 will review the contributions that the three UNISPACE conferences (UNISPACE I, held in 1968, UNISPACE II, held in 1982, and UNISPACE III, held in 1999) have made to global space governance. In line with the 2030 Agenda for Development and sustainable development goals, UNISPACE+50 aims to chart the future role of COPUOS, its subsidiary bodies and the United Nations Office of Outer Space Affairs, at a time of an evolving and more complex space agenda when more participants, both governmental and non-governmental, are increasingly involved in ventures to explore space and carry out space activities. The activities of the Office are an integral part of the UNISPACE+50 thematic cycle and are aimed at contributing to outputs under the four pillars space economy, space society, space accessibility and space diplomacy. For additional information see:

<http://www.unoosa.org/oosa/en/ourwork/hlf/hlf.html>.

## PROGRAMME

### **MONDAY, 5 SEPTEMBER 2016**

09:00-10:00	Registration and access procedures at Gate 1, VIC
10:00-11:15	<b>OPENING OF THE WORKSHOP</b>  Welcome address: <b>Ms. Simonetta Di Pippo, Director UNOOSA</b>  Introductory remarks: <b>Ms. Christine Stix-Hackl, Permanent Representative of Austria to the United Nations (Vienna)</b>  Keynote speech: Space law and governance  <b>Mr. Sergio Marchisio, University Sapienza of Rome</b>  Keynote Speech: Putting cooperation back into space security  <b>Mr. Paul Meyer, The Simons Foundation</b>
11:15-12:45	<b>ROUND TABLE DISCUSSION ON SAFETY, SECURITY AND SUSTAINABILITY OF OUTER SPACE ACTIVITIES IN THE CONTEXT OF SPACE GOVERNANCE AND SPACE SECURITY</b>
<b>Moderator:</b>	<b>Ms. Simonetta Di Pippo, Director UNOOSA</b>
<b>Round Table:</b>	<b>Mr. Zhongjun Shi, Permanent Representative of the People's Republic of China to the United Nations (Vienna); and Mr. Haiwen Wu, Deputy Permanent Representative</b>  <b>Mr. Georgy Mikhno, Deputy Permanent Representative of the Russian Federation to the United Nations (Vienna); and Ms. Olga Volynskaya, Roscosmos</b>  <b>Mr. Kenneth Hodgkins, Department of State of the United States of America</b>  Exchange of views and open discussion
<b>Rapporteur:</b>	<b>Mr. Niklas Hedman, CPLA Team UNOOSA</b>
12:45-14:00	Lunch break

## **PANEL 1: INTERNATIONAL SPACE LAW AND POLICY DEVELOPMENT**

- Moderator:** **Mr. Helmut Tuerk, Former Judge and Vice-President of the International Tribunal for the Law of the Sea**
- 14:00-14:30 Introduction by the Moderator and perspectives on progressive development of public international law
- 14:30-15:00 Breaking the traditional orbit: alternative means of shaping law and policy in outer space
- Mr. Kuan-Wei Chen, McGill University**
- 15:00-15:30 International law perspectives on small satellite activities
- Ms. Irmgard Marboe, University of Vienna**
- 15:30-16:00 Perspectives on future space traffic management
- Mr. Alexander Soucek, ESA**
- 16:00-16:30 Break
- 16:30-17:00 New space actors
- Mr. Christopher Johnson, SWF**
- 17:00-17:30 Designing space policies in emerging countries: main challenges
- Ms. Magda Cocco/Ms. Helena Mendonça, VdA Law Firm, Lisbon**
- 17:30-18:00 Discussion on observations and recommendations
- Rapporteur:** **Ms. Sizhu Liu, CPLA Team UNOOSA**

## **TUESDAY, 6 SEPTEMBER 2016**

### **PANEL 2: SAFETY OF SPACE OPERATIONS AND SECURITY OF SPACE SYSTEMS**

- Moderator:** **Mr. Jean-Jacques Tortora, Director ESPI**
- 09:30-10:00 Introduction by the Moderator and perspectives on dual-use of space technology
- 10:00-10:30 Space assets and emerging threats
- Mr. Bhupendra Jasani, King's College London**

10:30-11:00	Space security and cyber security: intersecting challenges  <b>Ms. Deborah Housen-Couriel, Tel Aviv University</b>
11:00-11:30	Break
11:30-12:00	GGE-report and TCBMs  <b>Mr. Hellmut Lagos Koller, Current Chair of LSC and former member of GGE</b>
12:00-12:30	Space security and governance - the role of space middle powers  <b>Ms. Natália Archinard, Federal Department of Foreign Affairs, Switzerland</b>
12:30-13:00	Discussion on observations and recommendations  <b>Rapporteur: Mr. Michael Newman, CPLA Team UNOOSA</b>
13:00-14:30	Lunch break

**PANEL 3: TCBM IMPLEMENTATION AND THE ROLE OF INTERNATIONAL ENTITIES: INSTITUTIONAL AND REGULATORY PERSPECTIVES**

<b>Moderator:</b>	<b>Mr. Jarmo Sareva, Director UNIDIR</b>
14:30-15:00	Introduction by the Moderator and perspectives on norms of behaviour
15:00-15:30	UNOOSA  <b>Mr. Niklas Hedman, UNOOSA</b>
15:30-16:00	UNODA  <b>Mr. Valere Mantels, UNODA</b>
16:00-16:30	Break
16:30-17:00	ITU role, regulations and actions to prevent and resolve harmful interference to space services  <b>Mr. Jorge Alberto Cicciorossi, Space Services Department, ITU</b>
17:00-17:30	HCoC  <b>Ms. Julia Peitl, HCoC – Immediate Central Contact (Executive Secretariat)</b>

17:30-18:00 Discussion on observations and recommendations

**Rapporteur:** Ms. Tanya Keusen, CPLA Team UNOOSA

## **WEDNESDAY, 7 SEPTEMBER 2016**

### **PANEL 4: INTERNATIONAL MODELS AND MECHANISMS FOR SPACE COOPERATION AND COORDINATION**

**Moderator:** Mr. Kenneth Hodgkins, US State Department

09:30-10:00 Introductory remarks by the Moderator and perspectives on ICG and on models for cooperation in space exploration and innovation

10:00-10:30 The Inter-Agency Space Debris Coordination Committee: an overview

**Mr. Holger Krag, ESA**

10:30-11:00 Break

11:00-11:30 Mechanisms for regional and interregional cooperation and coordination

**Ms. Romina Acevedo, Venezuela**

11:30-12:00 Models for coordination and cooperation: Bilateral and multilateral agreements

**Ms. Setsuko Aoki, Keio University**

12:00-12:30 Discussion on observations and recommendations

**Rapporteur:** Ms. Romana Kofler, CPLA Team UNOOSA

12:30-14:00 Lunch break

### **PANEL 5: COOPERATION AND CAPACITY-BUILDING IN SPACE LAW AND POLICY FOR THE BENEFIT OF DEVELOPING COUNTRIES**

**Moderator:** Mr. Christian Bruenner, Graz University

14:00-14:30 Introduction by the Moderator and perspectives on integrated education and training

14:30-15:00 Cooperation models and capacity-building for emerging space nations

**Mr. Roberto Becerra, Venezuela**

15:00-15:30	Promotion and support for development of national space legislation in developing countries  <b>Mr. Mr. Kuan-Wei Chen, McGill University on behalf of Mr. Md. Tanveer Ahmad, McGill University</b>
15:30-16:00	Cross-sectorial perspectives for capacity-building in space law and policy  <b>Mr. Tare Brisibe, Independent Legal Consultant, Barrister &amp; Solicitor of the Supreme Court, Nigeria</b>
16:00-16:30	Break
16:30-17:00	Capacity-building models - the case of UN-SPIDER Technical Advisory Missions  <b>Mr. Lorant Czarán, UNOOSA</b>
17:00-17:30	Role of Regional Centres for Space Science and Technology Education, affiliated to the United Nations  <b>Mr. Guozhu Gao, Beihang University</b>
17:30-18:00	Discussion on observations and recommendations
<b>Rapporteur:</b>	<b>Ms. Aygul Duysenhanova, CPLA Team UNOOSA</b>

## **THURSDAY, 8 SEPTEMBER 2016**

### **PANEL 6: LEGAL REGIME OF OUTER SPACE AND GLOBAL SPACE GOVERNANCE: CURRENT AND FUTURE PERSPECTIVES**

<b>Moderator:</b>	<b>Mr. Bernhard Schmidt-Tedd, German Aerospace Center (DLR)</b>
09:30-10:00	Introduction by the Moderator and perspectives on the UNISPACE+50 thematic priority on the legal regime of outer space
10:00-10:30	Treaties, resolutions, principles, guidelines: the relevance of hard law and soft law in the further development of space law  <b>Ms. Tanja Masson-Zwaan, Leiden University</b>
10:30-11:00	Effectiveness of legal regime for responsibility and liability of national space activities – assessment of gaps  <b>Mr. Armel Kerrest, University of Western Brittany</b>



11:00-11:30	Break
11:30-12:00	Legal perspectives of space operations and sustainability of outer space activities  <b>Ms. Olga Volynskaya, Roscosmos</b>
12:00-12:30	Enhancing cooperation and coordination between STSC and LSC of COPUOS  <b>Ms. Teresita Alvarez, Permanent Mission of Chile, Vienna</b>
12:30-13:00	Discussion on observations and recommendations
<b>Rapporteur:</b>	<b>Mr. Mark Shapira, CPLA Team UNOOSA</b>
13:00-14:30	Lunch break

### **CONCLUSIONS, OBSERVATIONS, RECOMMENDATIONS**

<b>Chair:</b>	<b>Ms. Simonetta Di Pippo, Director UNOOSA</b>
14:30-15:00	Introduction by the Chair and perspectives on the road towards UNISPACE+50: Space economy, space society, space accessibility, space diplomacy
15:00-16:30	Setting conclusions, observations and recommendations of the Workshop  <b>Mr. Niklas Hedman, UNOOSA</b>  Closing remarks of the Workshop  <b>Ms. Simonetta Di Pippo, Director UNOOSA</b>

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