



## 2018 SPACE SECURITY CONFERENCE

### SPACE SECURITY: THE NEXT CHAPTER

*7 and 8 May 2018, Room XXIII of the Palais des Nations, United Nations Office at Geneva*

A Conference organized by the United Nations Institute for Disarmament Research in collaboration with the Secure World Foundation and The Simons Foundation Canada

#### CONFERENCE PROGRAMME

##### Monday, 7 May 2018

**08:30 — 9:00**    *Welcome coffee*

**09:00 — 09:30**    **Opening Session**

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09:00    Welcoming Remarks

*Dr Renata DWAN, Director, UNIDIR*

*Ms Victoria SAMSON, Washington Office Director, Secure World Foundation*

09:15    Opening Address

*Mr Michael MOLLER, Director General, UN Office at Geneva*

**09:30 — 11:00**    **Panel 1. National and Regional Approaches to Space Security**

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*Chair: Dr Renata DWAN, Director, UNIDIR*

09:30    Russian Federation

*Mr Andrey GREBENSCHIKOV, Ministry of Foreign Affairs, Russian Federation*

09:45    Luxembourg

*Mr Georges SCHMIT, Special Envoy of the Government of Luxembourg, SpaceResources.lu*

10:00    Africa and the Middle East

*Mr Hatem ELATAWY, Deputy Director, Cairo International Center for Conflict Resolution, Peacekeeping and Peacebuilding*

10:15 People's Republic of China  
***Ambassador Mr FU Cong**, Ambassador for Disarmament Affairs, Deputy Permanent Representative,  
Permanent Mission of the People's Republic of China to the United Nations Office at Geneva and Other  
International Organizations in Switzerland*

10:30 Q&A

**11:00 — 11:15 Coffee Break**

**11:15 — 12:45 Panel 2. Coming into Focus: a look at the maturing space economy**

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*Chair: Mr Naser AL RASHEDI, Director, Space Policy and Regulations, UAE Space Agency*

11:15 Satellite Broadband: deploying broadband to the Southern Hemisphere  
***Ms Neha SATAK**, Co-Founder and CEO, Astrome Technologies*

11:30 Space Manufacturing  
***Mr Andrew RUSH**, President/CEO, Made in Space, Inc*

11:45 Small Satellite Launch Vehicles  
***Mr Peter BECK**, CEO, Rocket Lab*

12:00 Rendezvous and Proximity Operations (RPOs)  
***Ms Victoria SAMSON**, Director, Washington Office, Secure World Foundation*

12:15 Q&A

**12:45 — 14:30 Lunch Break**

**13:30 — 14:00 Special Lunchtime Event: presented by Secure World Foundation**

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13:30 Global Counterspace Capabilities: An Open Source Assessment

**14:30 — 16:00 Panel 3. Established Regimens, New Realities: are existing rules and practices enough?**

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*Chair: Ms Kerstin Vignard, Deputy to the Director and Chief of Operations, UNIDIR*

14:30 The Outer Space Treaty and its Role in Modern Space Security  
***Dr Guoyu WANG**, Deputy Director, Institute of Space Law, Beijing Institute of Technology*

14:45 Evaluating the Role of Consensus Within the UN System  
***Ms Karoline MARBURGER**, German Aerospace Center (DLR)*

15:00 Do Space Transparency and Confidence-Building Measures Have a Future?  
***Ambassador (Ret.) Mr Paul MEYER**, The Simons Foundation*

15:15 Space Situational Awareness Data Sharing: reviewing old methods and new capabilities  
***Dr Asha BALAKRISHNAN**, Core Staff Member, Science and Technology Policy Institute*

15:30 Q&A

**16:00 — 16:15 Tea Break**

#### **16:15 — 17:45 Panel 4. Space Security for People on Earth**

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*Chair: Ambassador Ms Yvette STEVENS, Ambassador Extraordinary and Plenipotentiary Permanent Representative of the Republic of Sierra Leone to the United Nations Office and other international organizations in Geneva*

16:15 Space and Poverty: using Earth observation to tackle poverty driven security issues

**Mr Keith GARRETT**, Senior Geographer, Geospatial Operations, World Bank Group

16:30 Space and Environmental Security

**Mr Antonio CICOLELLA**, Head of the ESA System Architecture Office Directorate of Earth Observation Programmes

16:45 Space Security and Gender: incorporating the gender perspective into decision-making processes

**Ms Sara LANGSTON**, CEO and Principal Consultant, Senmurv Consulting LLC

17:00 Q&A

#### **Tuesday, 8 May 2018**

#### **09:00 — 09:15 Keynote Address**

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09:00 Moving PAROS forward: an update

**Ambassador Mr Guilherme de Aguiar PATRIOTA**, Special Representative of Brazil to the Conference on Disarmament

#### **09:15 — 10:45 Panel 5. Emerging challenges**

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*Chair: Mr Chris JOHNSON, Space Law Advisor, Secure World Foundation*

09:15 Telecommunication Security: threats to the space segment of international telecommunication networks

**Mr Alexandre VALLET**, Chief, Space Services Department, International Telecommunication Union (ITU)

09:30 Upgrading Strategic Missile Defense Systems: implications for tensions in the space domain

**Dr Laura GREGO**, Senior Scientist, Union of Concerned Scientists

09:45 Quantum Computing for Satellite Communications: a revolution for encrypted communications

**Professor Thomas JENNEWEIN**, Quantum Encryption and Science Satellite, University of Waterloo

10:00 Military Outsourcing: legal and security consequences for commercial operators

**Professor Kazuto SUZUKI**, Associate Professor, Hokkaido University

10:15 Q&A

**10:45 — 11:00 Coffee Break**

**11:00 — 12:30 Panel 6. Searching for Viable Steps: gauging options big and small**

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Chair: *Ambassador (Ret.) Mr Paul MEYER, The Simons Foundation*

11:00 UN Group of Governmental Experts on Substantial Elements of an International Legally Binding Instrument on PAROS, Including, *inter alia*, on the Prevention of the Placement of Weapons in Outer Space

**Ms ZUO Rui**, *Deputy Director, Department of Arms Control, Ministry of Foreign Affairs, People's Republic of China*

11:15 No First Placement

**Mr Andrey GREBENSCHIKOV**, *Ministry of Foreign Affairs, Russian Federation*

11:30 Anti-Satellite Test Guidelines: no debris, low debris, notification

**Mr. Daniel PORRAS**, *Space Security Fellow, UNIDIR*

11:45 Shifting Alliances: evaluating the possible in today's security environment

**Dr Rajeswari Pillai RAJAGOPALAN**, *Senior Fellow and Head of the Nuclear and Space Policy Initiative, Observer Research Foundation*

12:00 Q&A

**12:30 — 12:45 Closing Session**

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12:30 Closing Remarks

Ambassador (Ret.) Paul MEYER, The Simons Foundation

This event was organised with support from  
the Governments of the People's Republic of China and the Russian Federation