



Bermuda Space Sustainability Workshop 2020

January 22nd and 23rd, 2020
Bermuda Underwater Exploration Institute
Hamilton, Bermuda

DAY 1 - January 22, 2020

08:30	Registration
9:00	Opening <i>Workshop Introduction - Krystal Wilson, Secure World Foundation</i> <i>Introductions of Participants</i>
9:30	Welcome and Discussion of Bermuda's Current Perspectives <i>Walter Roban - Minister of Home Affairs, Government of Bermuda</i>
10:00	Trends in the Space Domain <i>A series of stage-setting introductory talks on trends in the space sector.</i> Speakers: <ol style="list-style-type: none">1. Space Environment – Krystal Wilson, Director of Space Applications Programs, Secure World Foundation2. Space Governance – Sara Langston, Assistant Professor of Spaceflight Operations, Embry-Riddle Aeronautical University3. Globalization and Commercialization – Ian Christensen, Director of Private Sector Programs, Secure World Foundation4. Space Security and Stability – Jessica West, Senior Researcher, Project Ploughshares5. Spectrum and Frequency Coordination – Kathryn Martin, Director, Asia and US, Access Partnership
11:15	Break



<p>11:30</p>	<p>Policy for Sustainability I: Required National Responsibilities <i>A panel discussion of what a national government must do to oversee its national space actors.</i></p> <p><u>Moderator:</u> Jeane Nikolai, Government of Bermuda</p> <p>Speakers:</p> <ol style="list-style-type: none"> 1. Amber Charlesworth, Office of Space & Advanced Technology, United States Department of State 2. Richard Crowther, Chief Engineer, United Kingdom Space Agency (UKSA) (via video) 3. Alexander MacDonald, Chief Economist, Office of the Administrator, NASA
<p>12:30</p>	<p>Lunch</p>
<p>1:30</p>	<p>Policy for Sustainability II: Beneficial National Roles <i>A panel discussion of the roles a national government can take in developing a space sector keeping sustainability in mind.</i></p> <p><u>Moderator:</u> Krystal Wilson, Secure World Foundation</p> <p>Speakers:</p> <ol style="list-style-type: none"> 1. Paul Febvre, Chief Technical Office, Satellite Applications Catapult 2. Prof. Danielle Wood, Director, Space Enabled Research Group, MIT Media Lab 3. Tammy Warren, Senior Marine Resources Officer, Government of Bermuda
<p>2:30</p>	<p>Break</p>
<p>3:00</p>	<p>Space Industry Development and Practice <i>This panel discussion will examine the key trends that are driving the increasingly commercial nature of the space domain, focusing on areas most relevant to a jurisdiction like that of Bermuda. It will discuss how operators and supporting services in the space sector are acting to encourage responsible operations principles and best practices in support of business and space sustainability objectives.</i></p> <p><u>Moderator:</u> Ian Christensen, Secure World Foundation</p> <ol style="list-style-type: none"> 1. Anthony Baker, CEO, Satellite Vu 2. Ryan Shepperd, Deputy Head of Orbital Analysis, Iridium 3. Chris Kunstadter, Global Head of Space, AXA XL
<p>4:00</p>	<p>Wrap-up - Facilitated Roundtable Discussion <i>In a jurisdiction the size and character of Bermuda - what results and returns can be expected from developing the space sector.</i></p>
<p>4:30</p>	<p>Adjourn</p>



DAY 2 - January 23, 2020

08:30	Registration
09:00	<p>Partnership Models for Space Sustainability <i>Discussion of approaches through which industry, government, and academia can work together to achieve space sustainability and benefit outcomes. Topics covered will include the Long-term Sustainability Guidelines and regional collaboration.</i></p> <p><u>Moderator:</u> Krystal Wilson, Secure World Foundation</p> <p>Speakers:</p> <ol style="list-style-type: none">1. Sergio Camacho-Lara, Secretary General, CRECTEALC2. Prof. Danielle Wood, Director, Space Enabled Research Group, MIT Media Lab3. Amber Charlesworth, Office of Space & Advanced Technology, United States Department of State4. Jose Luiz Moutinho, Chief Networking and Business Officer, AIR Centre
10:00	Break
10:30	<p>Roundtable Discussions of Space Sustainability Options for Bermuda</p> <p><i>Divide the workshop participants up into 2-3 breakout groups, each with a mix of the speakers from a program for a working session brainstorming and identifying ways in which Bermuda can include space sustainability in its initiatives to develop the space sector.</i></p>
12:30	Working Lunch with report out from Groups
1:30	Adjourn