

**Space, Health and Innovation:  
Emerging Challenges, New Opportunities and Benefits to Society**

**Canadian Space Agency Headquarters  
John H. Chapman Space Centre  
6767, route de l'Aéroport,  
St-Hubert, Quebec**

**Wednesday, November 29, 2017**

Time	Forum Program Details
12:00 – 1:00pm	<b>Registration</b>
1:00 - 1:45pm	<p><b>Forum Opening / Welcome</b></p> <p>Forum Facilitator: Phil Carr, The Strategic Review Group Inc.</p> <p>Sylvain Laporte, CSA President</p> <p>Mary Preville, Director General, CSA Policy</p> <p>Gilles Leclerc, Director General, CSA Space Exploration</p>
1:45 – 2:45pm	<p><b>Panel 1 - The Health Risks of Spaceflight: an Insider Perspective</b></p> <p>This session will explore health-related challenges of human spaceflight and realities of dealing with health and medical care in space.</p> <p><b>Panelists:</b>            Dr. David Saint-Jacques, Canadian Astronaut, engineer, astrophysicist and physician</p> <p>Dr. Dave Williams, former Canadian Astronaut, physician, and healthcare administrator</p> <p>Dr. Robert Thirsk, former Canadian Astronaut, engineer, physician, and Chancellor of the University of Calgary</p> <p><b>Moderator:</b>            Dr. Douglas Hamilton, Clinical Associate Professor of Internal Medicine and Adjunct Professor of Electrical Engineering at the University of Calgary, and Former NASA Flight Surgeon</p>
2:45 – 3:15pm	<b>Networking Break</b>

Time	Forum Program Details
Panel 3:15 – 4:15pm	<p><b>Panel 2 - Space and Terrestrial Healthcare: Identifying Shared Needs and Solutions</b></p> <p>This session will explore linkages between space healthcare and long-term, chronic care and rehabilitation, as well as delivery of health and medical care in northern and remote communities, and extreme environments and military settings.</p> <p><b>Panelists:</b>  Dr. Goldie Nejat, Associate Professor, Department of Mechanical Engineering, University of Toronto and Canada Research Chair for Robots in Society</p> <p>Dr. Keith MacLellan, MD, Shawville, QC, and Former President of the Society of Rural Physicians</p> <p>Dr. Peter Suedfeld, Psychology Professor Emeritus, University of British Columbia</p> <p>Dr. Joan Saary, MD, MSc, PhD, FRCPC, CIP, FACOEM, Assistant Professor of Medicine, University of Toronto</p> <p><b>Moderator:</b>  Phil Carr, The Strategic Review Group Inc.</p>
4:15 – 5:15pm	<p><b>Panel 3 - Health Innovation in Canada: Pushing Frontiers of Healthcare by Leveraging Technology Innovation</b></p> <p>This session will explore new healthcare innovation and business models and the use of disruptive technologies to change the ways we use and deliver healthcare.</p> <p><b>Panelists:</b>  Dr. Anne Snowdon, RN, BScN, MSc, PhD, FAAN, Chair, World Health Innovation Network, and Scientific Director &amp; CEO, SCAN Health</p> <p>Dr. Linda Maxwell, MD, MBA, FRCSC, FACS, Founding and Managing Director of the Biomedical Zone</p> <p>Ms. Susan Wooldridge, Director, Sales and Marketing, ThoughtWire</p> <p>Dr. Ricardo Baltazar, Senior Product Manager, Think Research</p> <p><b>Moderator:</b>  Phil Carr, The Strategic Review Group Inc.</p>
5:15 – 5:30pm	<p><b>Wrap-up of Day 1</b></p> <p>Phil Carr, The Strategic Review Group Inc.</p>

**Thursday, November 30, 2017**

Time	Forum Program Details
8:30 – 9:00am	<b>Registration</b>
9:00 – 9:20am	<p><b>Review of Day 1</b>  <b>Review of Agenda and Objectives for Day 2</b></p> <p>Phil Carr, The Strategic Review Group Inc.</p>
9:20 – 10:35am	<p><b>Breakout Session 1</b></p> <p><b>Topic 1:</b> What are the emerging burdens/demands on the Canadian healthcare system? What space needs would be well aligned with relief of these future stressors?</p> <p><b>Topic 2:</b> What capabilities in healthcare innovation could be translated to support astronaut healthcare?</p>
10:35 – 11:05am	<b>Networking Break</b>
11:05 – 12:20pm	<p><b>Panel 4 - Transforming Healthcare through Artificial Intelligence</b></p> <p>This session will explore the potential of AI to advance healthcare through improved diagnostic speed and accuracy, decision support, patient monitoring, predictive analytics, and behavioral therapies.</p> <p><b>Panelists:</b>            Dr. Francois Laviolette, Professor, Department of Informatics and Engineering, Laval University, and Director of Big Data Research Center</p> <p>Dr. Carolyn McGregor, Professor; Associate Dean and Canada Research Chair in Health Informatics, Faculty of Business and Information Technology, University of Ontario Institute of Technology</p> <p>Dr. Gary Hasey, Associate Professor of Psychiatry, McMaster University</p> <p>Dr. Miroslava Cuperlovic-Culff, Senior Research Officer and Team Leader, National Research Council, and Adjunct Professor, University of Moncton</p> <p>Ms. Valerie Bécaert, Director of Research, Element AI</p> <p><b>Moderator:</b>            Dr. Jacques Corbeil, Professor and Canada Research Chair in Medical Genomics, Department of Molecular Medicine, Université Laval</p>
12:20 – 12:30pm	<b>Wrap-up of the Morning Session</b>

Time	Forum Program Details
12:30 – 1:30pm	<b>Lunch</b>
1:30 – 2:45pm	<p><b>Breakout Session 2</b></p> <p><b>Topic 1:</b> What are the barriers to translation and adoption of health innovations? Could space-based applications of technology and systems play a role in mitigating the barriers to innovation?</p> <p><b>Topic 2:</b> What kind of collaborative framework and ecosystem could support a Canadian initiative in astronaut healthcare for deep space missions?</p>
2:45 – 3:15pm	<p><b>Wrap-up of Day 2</b></p> <p>Phil Carr, The Strategic Review Group Inc.</p>
3:15-3:45pm	<p><b>Next Steps and Closing Remarks</b></p> <p>Mary Preville, Director General, CSA Policy Gilles Leclerc, Director General, CSA Space Exploration</p>