

**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***

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

<b>Time</b>	<b>Forum Program Details</b>
8:30 – 9:00am	<b>Registration</b>
9:00 – 9:20am	<b>Review of Day 1</b> <b>Review of Agenda and Objectives for Day 2</b>  Phil Carr, The Strategic Review Group Inc.
9:20 – 10:35am	<b>Breakout Session 1</b>  <b>Topic1:</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?  <b>Topic 2:</b> What capabilities in healthcare innovation could be translated to support astronaut healthcare?
10:35 – 11:05am	<b>Networking Break</b>
11:05 – 12:20pm	<b>Panel 4 - Transforming Healthcare through Artificial Intelligence</b>  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.  <b>Panelists:</b> Dr. Francois Laviolette, Professor, Department of Informatics and Engineering, Laval University, and Director of Big Data Research Center  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  Dr. Gary Hasey, Associate Professor of Psychiatry, McMaster University  Dr. Miroslava Cuperlovic-Culff, Senior Research Officer and Team Leader, National Research Council, and Adjunct Professor, University of Moncton  Ms. Valerie Bécaert, Director of Research, Element AI  <b>Moderator:</b> Dr. Jacques Corbeil, Professor and Canada Research Chair in Medical Genomics, Department of Molecular Medicine, Université Laval
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	<b>Breakout Session 2</b>  <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?  <b>Topic 2:</b> What kind of collaborative framework and ecosystem could support a Canadian initiative in astronaut healthcare for deep space missions?
2:45 – 3:15pm	<b>Wrap-up of Day 2</b>  Phil Carr, The Strategic Review Group Inc.
3:15-3:45pm	<b>Next Steps and Closing Remarks</b>  Mary Preville, Director General, CSA Policy Gilles Leclerc, Director General, CSA Space Exploration