



# 2025 Future Projects Workshop

April 29, 2025 – May 1, 2025

**SNOLAB**

1039 Regional Road 24, Lively, Ontario, Canada



📍 Creighton Mine #9, 1039 Regional Road 24, Lively, ON P3Y1N2

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University of Alberta | Carleton University | Laurentian University | Université de Montréal | Queen's University

# AGENDA – Day 1

Fraser Duncan Auditorium

Time	Event
8:10 – 8:20	Meet Vale Parking Lot for 8:10AM / Sign in Vale, Escort to SNOLAB
8:20 – 8:45	Meet & Greet @ SNOLAB
8:45 – 9:15	Welcome, Land Acknowledgement & Opening Remarks (& Brief Overview of SNOLAB 15-Year Plan Jodi Cooley, Executive Director SNOLAB
9:15 – 9:30	SNOLAB Introduction Jeter Hall, Director of Research SNOLAB
9:30 – 9:50	Status and prospect of China Jinping Underground Laboratory Hao Ma, Tsinghua University
9:50 – 10:10	The Underground Laboratory of Modane Silvia Scorza, Laboratoire de Physique Subatomique et de Cosmologie (LPSC)
10:10 – 10:25	Discussion Period
10:25 – 10:40	Coffee Break
10:40 – 11:00	Theia at SNOLAB Micheal Wurm, Johannes Gutenberg University of Mainz
11:00 – 11:20	The P-ONE Program (&)
11:20 – 11:40	The Canadian Long-Range Planning and SNOLAB Carsten Krauss, University of Alberta
11:40 – 12:00	Discussion Period
12:00 – 12:15	Group Photo Opportunity
12:15 – 1:15	Lunch Break
1:15 – 1:35	DarkSide-LowMass: Sensitivity projections for a Liquid Argon Detector optimized for GeV-Scale Dark Matter Michela Lai, University of California
1:35 – 1:55	Small-scale experiments for light dark matter Yonatan Kahn, University of Toronto
1:55 – 2:10	DEAP 3600 Chris Jillings, SNOLAB
2:10 – 2:25	Discussion Period
2:25 – 2:40	Coffee Break
2:40 – 3:00	LNGS Activities & Prospects Aldo Ianni, I.N.F.N Laboratori Nazionali del Gran Sasso
3:00 – 3:20	SNOLAB: An international hub for fundamental physics Asimina Arvanitaki, Perimeter Institute
3:20 – 3:40	NSERC Perspective Discussion

	Kevin Lapointe, Manager for Natural Sciences & Engineering Research Council of Canada (NSERC)
<b>3:40 – 4:00</b>	<b>Question &amp; Answer / Discussion Period</b>
<b>4:00 – 4:15</b>	<b>Coffee Break</b>
<b>4:15 – 4:45</b>	<b>SNOLAB 15 Year Plan – Discussion &amp; Suggestion Period</b> <i>In Person Workshop Only; Virtual N/A</i> <u>Moderator</u> : Jodi Cooley, Executive Director SNOLAB
<b>4:45 – 5:00</b>	<b>Closing Remarks – Day 1</b>

## AGENDA – Day 2

Main Meeting - Fraser Duncan Auditorium

Time	Event
<b>6:20 AM</b>	<b>Meet in Vale Parking Lot / Turnstiles</b> <ul style="list-style-type: none"> <li><i>Visitors showing up on time is imperative for tour preparation.</i></li> <li><i>Those who show up late will unfortunately be dismissed from the tour.</i></li> <li><i>Only applicable to those who signed up during registration.</i></li> </ul>
<b>6:25 – 6:30</b>	<b>Sign in Vale &amp; Escort to SNOLAB</b>
<b>6:30 – 7:20</b>	<b>Preparations, Dressing PPE &amp; Debrief for Underground Tour</b> <ul style="list-style-type: none"> <li><i>PPE, Safety Talk, etc.</i></li> </ul>
<b>7:20 – 2:30</b>	<b>Underground Laboratory SNOLAB Tour (NEW-EXTENDED, CAGE AVAILABILITY CHANGE)</b> <ul style="list-style-type: none"> <li><i>Vale Cage Descent at 7:20 AM</i></li> </ul>
<b>12:00 – 1:00</b>	<b>Lunch – Surface Attendees</b>
<b>1:00 – 1:20</b>	<b>SNO+ Te Double Beta Decay</b> Mark Chen, Queen's University
<b>1:20 – 1:40</b>	<b>The Canadian Search for Neutrinoless Double Beta Decay in Xenon</b> Thomas Brunner, McGill University
<b>1:40 – 2:00</b>	<b>The Way Forward in the Search for Neutrinoless Double Beta Decay</b> David Sinclair, Carleton University
<b>2:00 – 2:30</b>	<b>Discussion Period</b>
<b>2:30 – 2:45</b>	<b>Coffee Break</b>
<b>2:30 – 3:00</b>	<b>End of Underground Tour</b> <ul style="list-style-type: none"> <li><i>Vale Cage Back Up to Surface 2:30 PM</i></li> </ul>
<b>2:45 – 3:05</b>	<b>Development of ARGO</b> Mark Boulay, Carleton University
<b>3:05 – 3:25</b>	<b>Cryogenic solid-state detectors: SuperCDMS and beyond</b> Miriam Diamond & Ziqing Hong, University of Toronto

<b>3:25 – 3:45</b>	<b>Deep Underground Biology: Past, Present, and Future</b> Michael Lapointe, Laurentian University and Northern Ontario School of Medicine University
<b>3:45 – 4:15</b>	<b>Discussion Period</b>
<b>4:15 – 4:30</b>	<b>Closing Remarks – Day 2</b>
<b>6:30 – 8:30</b>	<b>Conference Dinner @ Natura Catering &amp; Event Space</b> 1351-D Kelly Lake Road, Sudbury ON, P3E 5P5 <ul style="list-style-type: none"> <li><i>Main entrees were chosen and mandatory at the time of registration.</i></li> </ul>

## AGENDA – Day 3

Main Meeting - Fraser Duncan Auditorium

<b>Time</b>	<b>Event</b>
<b>8:15 – 8:25</b>	<b>Meet Vale Parking Lot for 8:15 / Sign in Vale, Escort to SNOLAB</b>
<b>8:25 – 9:00</b>	<b>Morning Meet &amp; Greet @ SNOLAB</b>
<b>9:00 – 9:20</b>	<b>The NEXT experiment Onubb vision towards the tonne scale</b> Krishan Mistry, University of Texas
<b>9:20 – 9:40</b>	<b>The XLZD Experiment</b> Hugh Lippincott, University of California Santa Barbara
<b>9:40 – 10:00</b>	<b>Prospect for a Future <math>0\nu\beta\beta</math> Decay Search</b> Kenny Vetter, Massachusetts Institute of Technology (MIT)
<b>10:00 – 10:30</b>	<b>Discussion Period</b>
<b>10:30 – 10:45</b>	<b>Coffee Break</b>
<b>10:45 – 11:05</b>	<b>Listening to the sound of gravitational waves and dark matter with superfluid helium</b> Marvin Hirschel, University of Alberta
<b>11:05 – 11:25</b>	<b>Thoughts on a tonne-scale liquid-noble bubble chamber</b> Benjamin Broerman, Queen's University
<b>11:25 – 11:45</b>	<b>The Role of the McDonald Institute in the Astroparticle Physics Landscape</b> Tony Noble, McDonald Institute
<b>11:45 – 12:15</b>	<b>Discussion Period</b>
<b>12:15 – 1:00</b>	<b>Lunch</b>
<b>1:00 – 1:30</b>	<b>Closing Remarks &amp; Future Suggestions for Meetings</b> Stephen Sekula, Research Group Manager SNOLAB