

### **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

# 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
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9:50 – 10:10	The Underground Laboratory of Modane Silvia Scorza, Laboratoire de Physique Subatomique et de Cosmologie (LPSC)
10:10 10:25	
10:10 - 10:25	Discussion Period
10:25 - 10:40	Coffee Break
10:40 – 11:00	Theia at SNOLAB Michael 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
1.55 – 1.55	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
3:00 – 3:20	Aldo Ianni, I.N.F.N Laboratori Nazionali del Gran Sasso
5:00 - 5:20	SNOLAB: An international hub for fundamental physics Asimina Arvanitaki, Perimeter Institute
2.20 2.40	
3:20 – 3:40	NSERC Perspective Discussion

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

# AGENDA – Day 2

Main Meeting - Fraser Duncan Auditorium

Time	Event
6:20 AM	<ul> <li>Weet in Vale Parking Lot / Turnstiles</li> <li>Visitors showing up on time is imperative for tour preparation.</li> <li>Those who show up late will unfortunately be dismissed from the tour.</li> <li>Only applicable to those who signed up during registration.</li> </ul>
6:25 – 6:30	Sign in Vale & Escort to SNOLAB
6:30 – 7:20	Preparations, Dressing PPE & Debrief for Underground Tour  • PPE, Safety Talk, etc.
7:20 <b>– 2:30</b>	<ul> <li>Underground Laboratory SNOLAB Tour (NEW-EXTENDED, CAGE AVAILABILITY CHANGE)</li> <li>Vale Cage Descent at 7:20 AM</li> </ul>
11:30 - 12:30	Lunch – Surface Attendees
12:30 – 3:00	Extended Coffee Break – Surface Attendees
The below tal	lks in orange will be broadcast from the Underground Laboratory Meeting Room
12:30 – 12:50	SNO+ Te Double Beta Decay Mark Chen, Queen's University
12:50 – 1:10	The Canadian Search for Neutrinoless Double Beta Decay in Xenon Thomas Brunner, McGill University
1:10 – 1:30	The Way Forward in the Search for Neutrinoless Double Beta Decay David Sinclair, Carleton University
2:30 – 3:00	<ul> <li>End of Underground Tour (NEW-EXTENDED, CAGE AVAILABILITY CHANGE)</li> <li>Vale Cage Back Up to Surface 2:30 PM</li> <li>Begin walking to shaft station at 1:45 PM</li> </ul>
3:00 – 3:20	<b>Development of ARGO</b> Mark Boulay, Carleton University

3:20 – 3:40	Cryogenic solid-state detectors: SuperCDMS and beyond Miriam Diamond & Ziqing Hong, University of Toronto
3:40 – 4:00	Deep Underground Biology: Past, Present, and Future  Michael Lapointe, Laurentian University and Northern Ontario School of Medicine University
4:00 – 4:30	Discussion Period
4:30 – 4:45	Closing Remarks – Day 2
6:30 - 8:30	Conference Dinner @ Natura Catering & Event Space
	1351-D Kelly Lake Road, Sudbury ON, P3E 5P5
	<ul> <li>Main entrees were chosen and mandatory at the time of registration.</li> </ul>

## AGENDA – Day 3

Main Meeting - Fraser Duncan Auditorium

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