



University of Windsor



Canadian Nuclear Laboratories
Laboratoires Nucléaires Canadiens



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MIRROTRON
THE WORLD OF NEUTRON



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UCANS 1+1



COSYLAB

Advancing humanity. Engineering remarkable.



ACCEL-LINK LTD



CINS
CANADIAN INSTITUTE FOR
NEUTRON SCATTERING



Neutrons
Canada

Welcome to the 11th International Meeting of the Union for Compact Accelerator Driven Neutron Sources – UCANS'11

Opening session
D. Marquardt and O. Kester
February 24, 2025

Land Acknowledgement

2



We respectfully acknowledge the original peoples of these lands and waters, specifically the səliiwətał (Tsleil-Waututh), Skwxwú7mesh Úxwumixw (Squamish), and xʷməθkʷəy̓əm (Musqueam), on whose unceded ancestral lands the District of North Vancouver is located.

We value the opportunity to learn, share, and serve our community on these unceded lands.

- The Union for Compact Accelerator-driven Neutron Sources was formed in 2010 to support the ongoing development of small accelerator-based neutron sources around the world.
- UCANS11 is the 11th meeting in a biennial series of meetings that are dedicated to ongoing development of CANS, technology challenges and emerging science and novel applications.
- UCANS 11 is committed to continue advancing the equal participation and collaboration between scientists in all countries in its activities and the principle of free and responsible practice of science.
- **Welcome to Vancouver in British Columbia!!!**

- We will have 8 program sessions, a poster session on Tuesday and special sessions on very cold neutron moderation and particle accelerators
- On Wednesday there is a visit to TRIUMF planned, the bus will leave at 2 pm from the conference hotel.
- **Paper Submission deadline: March 7, 2025**

| Time | Monday, Feb.24 | Tuesday, Feb.25 | Wednesday, Feb.26 | Thursday, Feb. 27 | Friday, Feb.28 |
|------|-------------------|---------------------------------|--------------------|---------------------|-----------------|
| 9 | | Session 3 | Session 6 | Session 8 | Session 11 |
| 10 | | Coffee | Coffee | Coffee | Coffee |
| 11 | Registration | Session 4 | Session 7 | Session 9 | Closing Session |
| 12 | | | | | |
| 13 | Opening Session | Lunch | Lunch | Lunch | |
| 14 | Session 1 | Session 5 | Visit to TRIUMF | Session 10 | |
| 15 | Coffee | Coffee | | Coffee | |
| 16 | Session 2 | Poster session 1 & Social | | Accelerator session | |
| 17 | | | | | |
| 18 | | UCANS Board Meeting | Conference Banquet | | |
| 19 | Welcome Reception | UCANS Board, SPC and LOC Dinner | | | |
| 20 | | | | | |
| 21 | | | | | |

- Please upload your presentations to Indico 12 hours before your scheduled presentation!

- Overview
- Timetable
- Contribution List
- Speaker List
- My Conference
- My Contributions
- Book of Abstracts
- Code of Conduct
- Guideline for Speakers**
- Guideline for Poster Presentations
- TRIUMF in-house registration
- Strawman program
- Accommodation
- Important Dates

Guideline for Speakers



IMPORTANT: please upload your talks to Indico - 24 hours before your scheduled presentation day/time.

Once your abstract has been submitted, reviewed and assigned a presentation type the contribution will be visible to you.

When it is time to upload the slides for your talk please go to 'My Contributions' from the menu selection on the left side of the page and locate your Oral Presentation.

Please name your talk "FirstNameLastName-Dayofyourtalk" (Mon/Tue/Wed/Thu/Fri) and use the pdf or ppt format.

- Click on the title, which will open a window with your contribution.
- Locate "Presentation Material" at the bottom of the page, and click on the pencil.
- Choose "Add Materials to the Contribution". You can 'drag & drop' your slides or poster from the file on your computer.

For your presentation on-site

We discourage using personal computers, and last minute USB stick uploads, as this can cause security problems with our computer and delay with set up if you use your computer.

If you have problems uploading your talk to Indico, please contact the following email address: UCANS11@triumf.ca

We will have a location where a computer will be available for you to upload your talk and review, or seek assistance. UCANS11 Presentation Management team will manage all talks transferring them to the presentation computer.

PLEASE alert us if you wish for your presentation to be REMOVED from Indico. Email: UCANS11@triumf.ca



The Venue

Tickets

- Monday Reception: 2 Blue tickets
- Tuesday Poster Session: 1 Red ticket
- Wednesday Banquet: 2 Black tickets



PINNACLE HOTEL

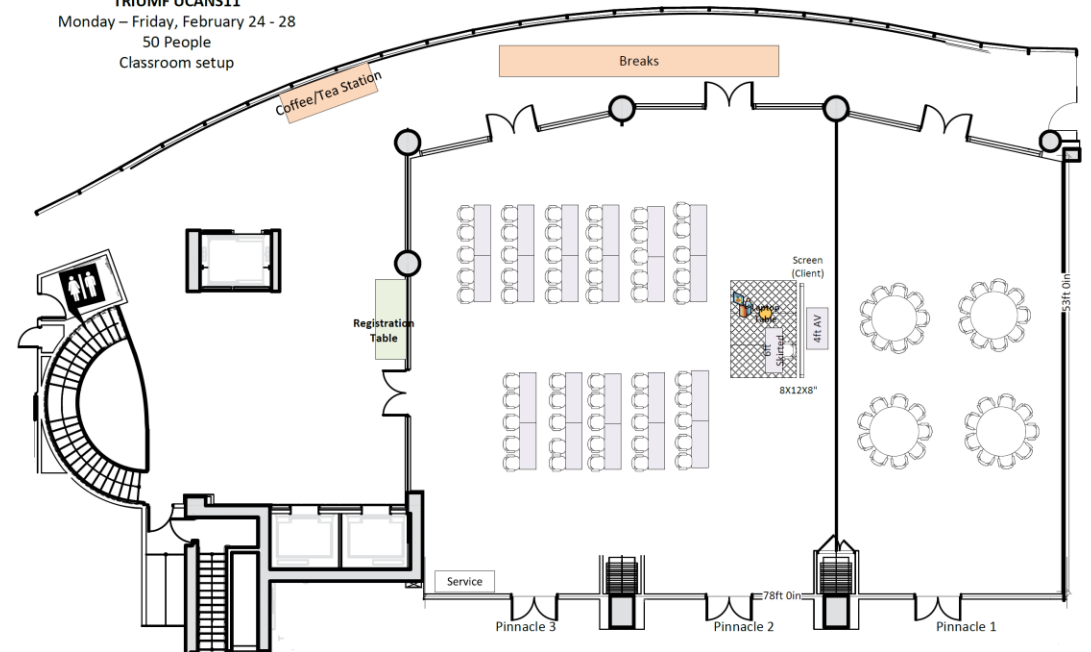
AT THE PIER

TRIUMF UCANS11

Monday – Friday, February 24 - 28

50 People

Classroom setup



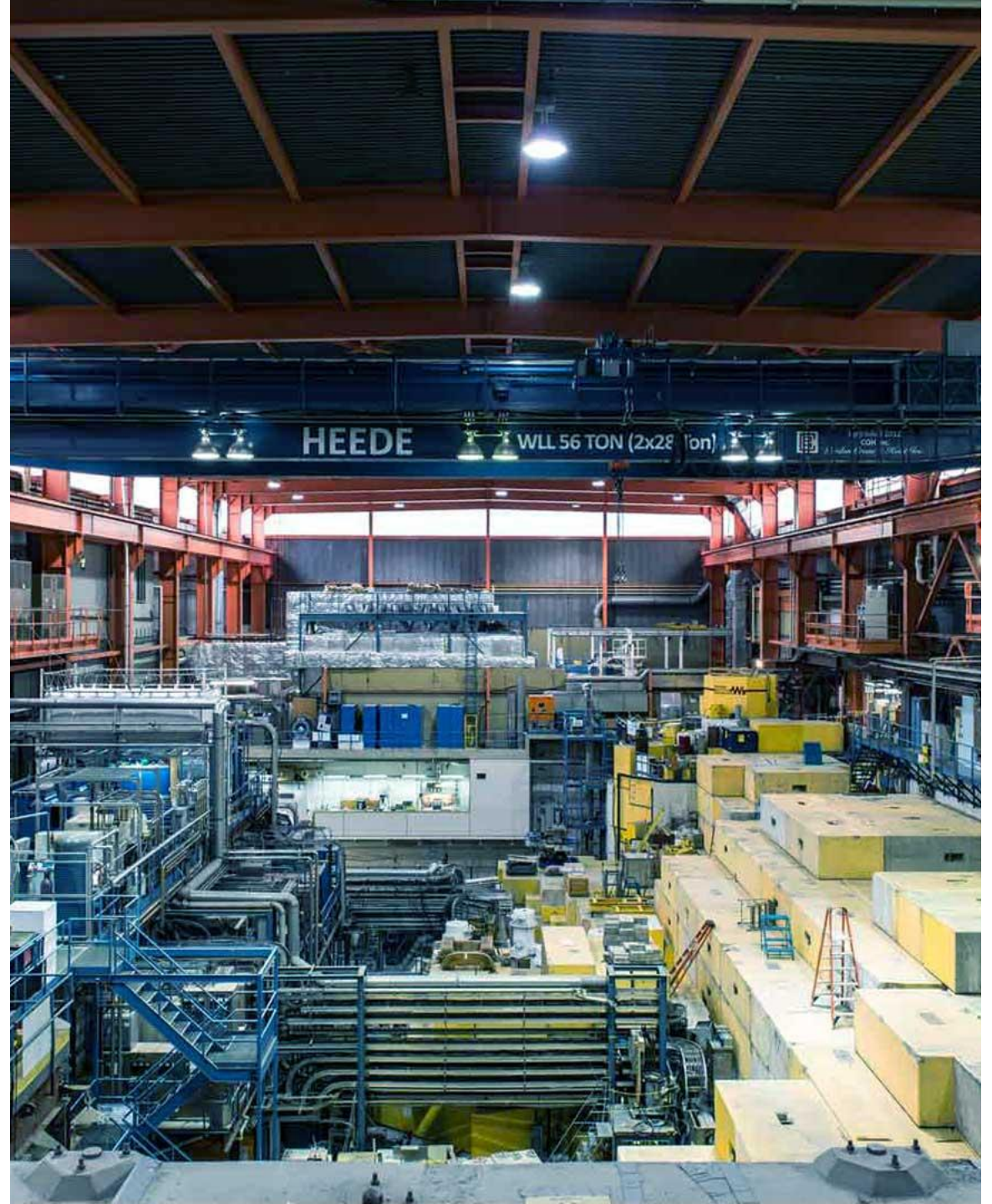
- Local Chairs: Oliver Kester and Bob Laxdal
- Coordination: Jana Thomson and Lorraine King
- Science Program Committee: Dalini Maharaj, Thomas Gutberlet, Rolando Granada, Oliver Kester and Bob Laxdal
- Sponsors:



Welcome from the Local Organizing Committee

Oliver Kester for the LOC

2025-02-24



TRIUMF is located on the traditional, ancestral, and unceded territory of the Musqueam people, who for millennia have passed on their culture, history, and traditions from one generation to the next on this site.

TRIUMF's home has always been a seat of learning.



A warm welcome from TRIUMF, Canada's particle accelerator centre.

We are a world-class hub of research, education, and innovation that is home to ~700 staff, students and post doctoral fellows.

Founded in 1968 by the University of British Columbia, Simon Fraser University, and the University of Victoria, TRIUMF is a cornerstone of BC's innovation ecosystem.





- Our laboratory is one of Canada's major investments in large-scale research infrastructure
- We collaborate across communities and disciplines, from nuclear and particle physics to the life and materials sciences
- We advance isotope science and technology, both fundamental and applied.



TRIUMF has five decades of experience in building a rich particle accelerator infrastructure that enables cutting-edge research while growing accelerator expertise.

TRIUMF accelerator complex

Primary beam driver (1974):

500 MeV Cyclotron, 300 μ A, H⁻

Produces rare isotopes, neutrons and muons

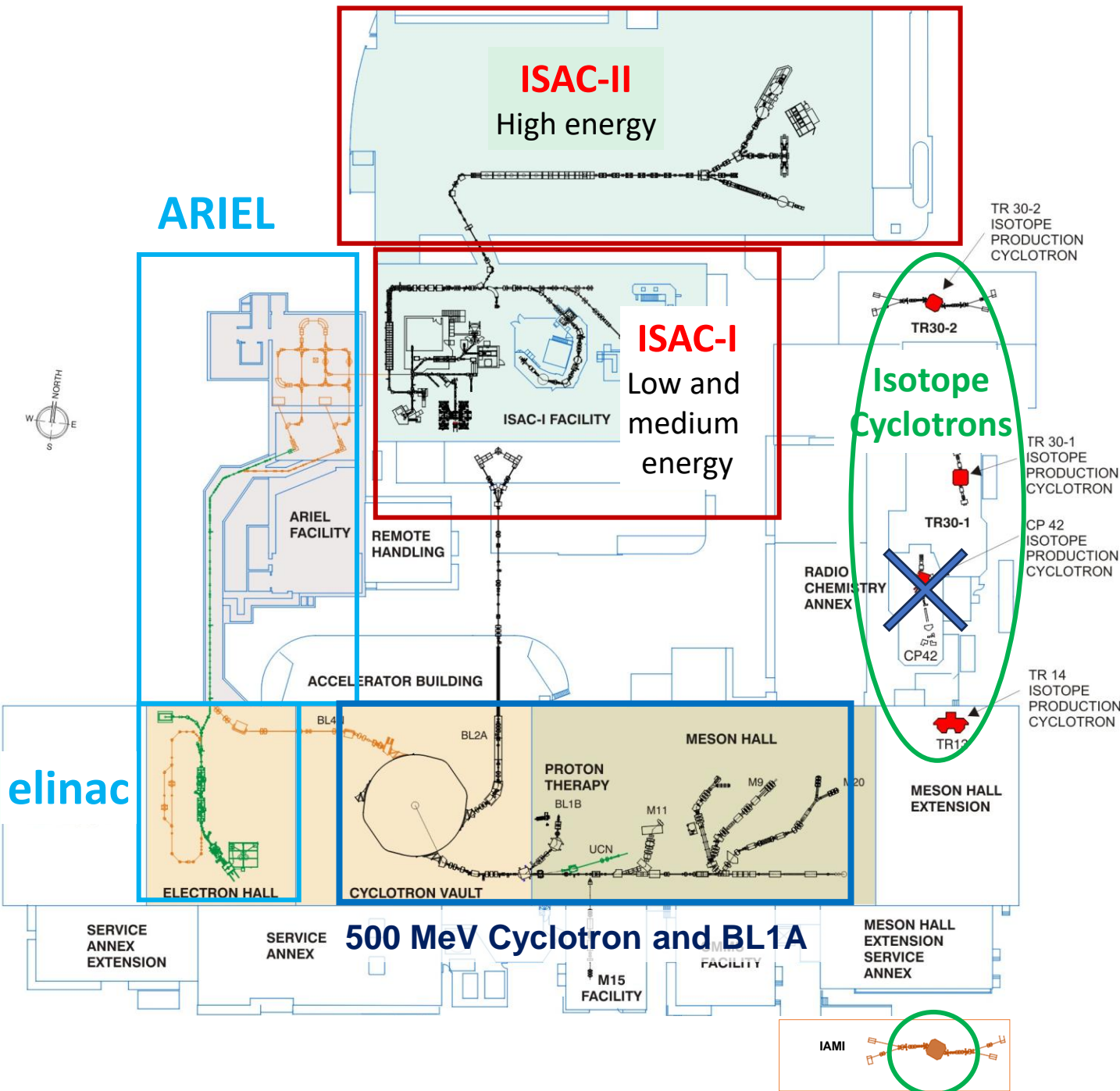
Isotope Separator and Accelerator facility – ISAC (1996)

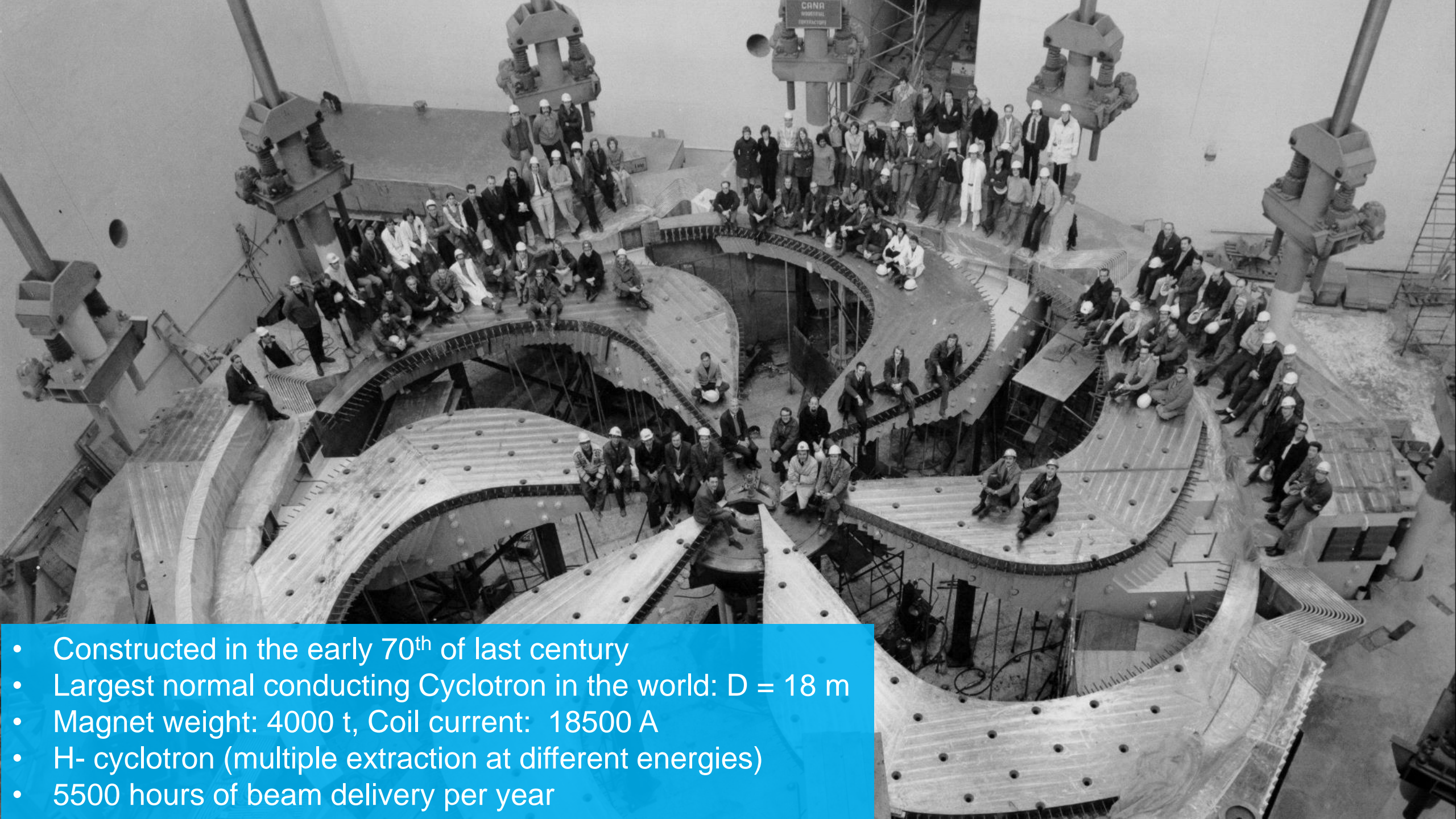
- ISAC-I: Normal conducting-linac
 - 0.15-1.8 MeV/u (2000)
- ISAC-II: Superconducting-linac
 - 1.5-16.5 MeV/u (2006)

Advanced Rare Isotope Laboratory – ARIEL (in progress)

- Superconducting electron linac
 - 30 MeV, 10 mA, cw (2019)

4 (+1) Cyclotrons for medical isotope production – TR30 and TR13 designed by TRIUMF





- Constructed in the early 70th of last century
- Largest normal conducting Cyclotron in the world: $D = 18\text{ m}$
- Magnet weight: 4000 t, Coil current: 18500 A
- H- cyclotron (multiple extraction at different energies)
- 5500 hours of beam delivery per year

What does TRIUMF do?

TRIUMF's work spans the entire continuum of research from fundamental science to commercialisation.

TRIUMF has cultivated a hub of excellence around a core of expertise in accelerators and isotope research.

From supporting Nobel-winning research in particle and nuclear physics to life sciences and industrial applications.



Innovation and Collaboration

The real-world impact of TRIUMF's reach spans well beyond its expertise in physics, with application in:

- Medicine and drug development
- Materials development and testing
- Accelerator and detector technologies
- Mining and natural resources
- Border security
- Oil and gas exploration
- Data sciences



TRIUMF
INNOVATIONS



- The LOC members:
 - LOC Co-Chairs: Oliver Kester, Bob Laxdal
 - Meeting coordinator: Jana Thomson
 - IS&T support: Emile Vartanian
 - Admin and coordination support: Lorraine King, Cynthia Reis, Pauline Dela Zilwa (ACC Division admin assistant)

Some information:

- Coffee will be served in the Pinnacle Foyer and lunches in the Pier Salon
- Posters can be put up at any time before the allocated poster sessions on the upper floor. Exact locations of your poster you can find in the Abstract Booklet.
 - Posters can stay on during the entire time up to Thursday
 - Posters should be taken down by NOON (12:00) THURSDAY, February 27. Any posters not removed by Thursday, 14:00 will be removed by staff and discarded.
- **During the sessions, please make sure your phone is switched to silent mode.
Enjoy the meeting!**



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Thank you
Merci

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