

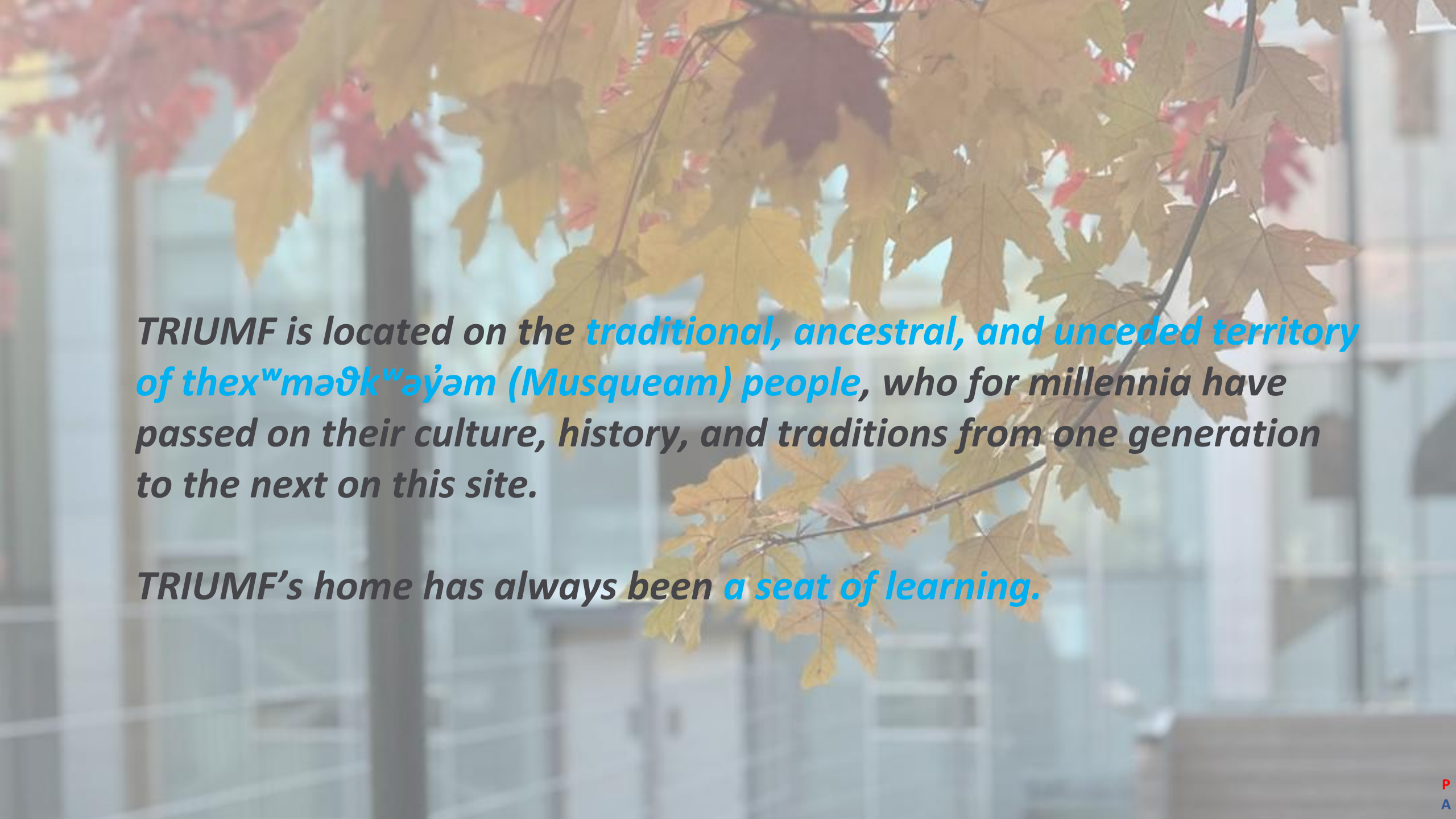
**Welcome to the 2026
meeting of the**

ASSC

October 1-2, 2026

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Director, Accelerator Division



The background of the slide features a soft-focus photograph of autumn foliage, with yellow and orange maple leaves in the foreground and a blurred building in the background.

*TRIUMF is located on the traditional, ancestral, and unceded territory of the **thex^wməθk^wəyəm (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.***

Some high-level updates since the last ASSC

- Since February 1st, we have been in the LS26 period and have focused work forces on the delivery of ARIEL objectives.
- An ARIEL Tiger Team has been established to monitor support for ARIEL activities and to proactively address any resource-related challenges that may impact ARIEL progress. Division Directors had to hold meetings with their Group Leaders, Department Heads, and the ARIEL project team to review priorities and realign personnel assignments as needed.
- Main objectives of the LS26:
 - Substantial completion of ARIEL installations in 2026
 - Readiness for commissioning of the all systems by end of 2027
- The ARIEL project team delivered a successful Gate 3 review on December 1st, 2025.
 - P355 and P179/P363 were also reviewed to pass Gate 2 and P374 had a successful Gate 3 reaffirmation.
 - Some elements of the project program are associated with the required ramp-up for regular user operation and were not required to be fully in place for Gate 4A. However, these activities did not meet all points in the Gate 3 checklist and require a status review in 2026.
- We combined the status review with this ASSC meeting.

Work in the ARIEL building

- To support longer hours of installation work in the ARIEL target hall, we introduced a dedicated team of “Qualified Coordinators”.
- Qualified Coordinators are responsible for overseeing and coordinating concurrent multi-work activities in the ARIEL building at TRIUMF, ensuring that multiple work groups can operate safely without creating hazards for one another.
- Their responsibility include conducting Job Hazard Assessments and Pre-Job Briefing at the start of each shift, identifying area-wide hazards, authorizing unplanned work, ensuring adequate first-aid coverage, maintaining a due-diligence logbook, coordinating weekend work with Accelerator Operations, and ensuring compliance with WorkSafeBC regulations.
- A cohort of Qualified Coordinators has been established across several TRIUMF divisions, including Physical Sciences.

- ARIEL strategy relies on developing a broader research community. Therefore, TRIUMF organized an ARIEL science workshop in April this year ([TRIUMF ARIEL Science Workshop 2026 \(20-23 April 2026\): Overview · \(Indico\)](#))
- The workshop was focused on Nuclear Physics, Nuclear Astrophysics and Fundamental Interactions.
- Series of invited presentations, panel discussions covering ten nuclear physics research topics.
- Around 135 international participants.
- This Nuclear Physics focused workshop was the first in a series of ARIEL Science Workshops.



ARIEL Science Workshop, 20-23 April 2026

Nuclear Physics - Nuclear Astrophysics - Fundamental Interactions

High level summary of the outcome:

- Strong endorsement for the existing research programs at ISAC and for plans to further strengthen and expand these capabilities through ARIEL.
- A clear message on the critical importance of post-accelerated RIBs noting the limited availability and beam delivery problems in the past.
- There is a strong demand for a ramp up towards the 9000 annual RIB hours that ARIEL is expected to provide and full operational capacity.
- A consensus on new ideas emerged for nuclear structure and astrophysics to perform dedicated campaigns of study around the peaks of photo-fission production (Ga, Sn and Ba etc).
- Research involving radioactive molecules at ARIEL generated enthusiasm, highlighting their potential to enable transformative and high-impact scientific discoveries.





ARIEL Progress in Long Shutdown
2026 is significant

Towards the completion of ARIEL