

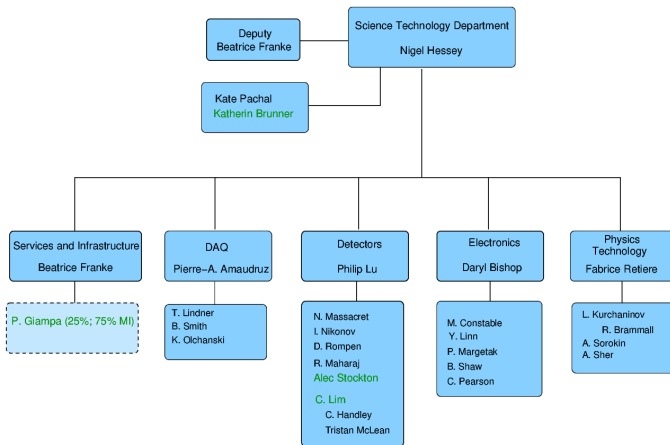


SciTech Status May 2023
ACOT

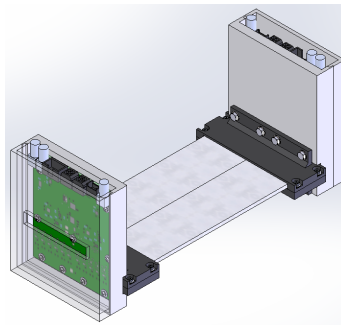
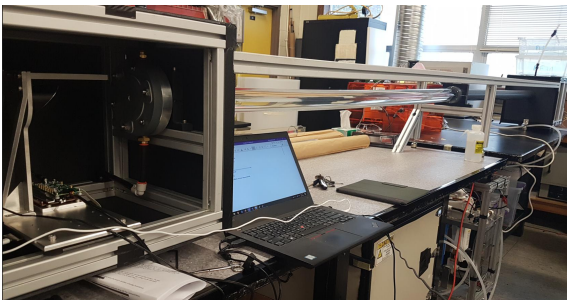
Nigel Hessey
TRIUMF

Personnel Changes
Highlights past 6 months
Hours on projects

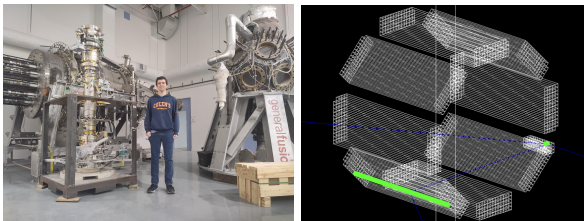
- ▶ Chapman Lim moved on after several years as Foreperson of Scintillator Shop - Clayton Handley has taken over. Will recruit a new machinist to bring team up to 3 again.
- ▶ Pietro Giampa welcomed (75 % MacDonald Institute, 25 % TRIUMF initially)
- ▶ New technician Alec Stockton replaced Jessica Blando
- ▶ New applied physicist Kathrin Brunner, part-time, permanently stationed at McGill.



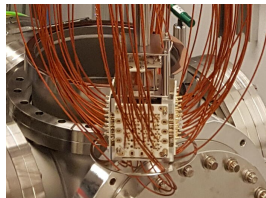
- ▶ Worked on 26 separate projects since last ACOT (Nov 22 - Apr 23)
 - ▶ Main projects (as opposed to operations, overheads, ...)
 - ▶ MultiPMT, Darkside, ATLAS LAr, nEXO, muSR, ARIEL-II Separator, Darklight
 - ▶ Environmental Monitoring — Water Quality Monitor; plus Early Forest Fire Detection using smoke detection with single photons with Sensenet (Vancouver, BC)



Water monitoring set-up and Darklight Scintillator with SiPM readout

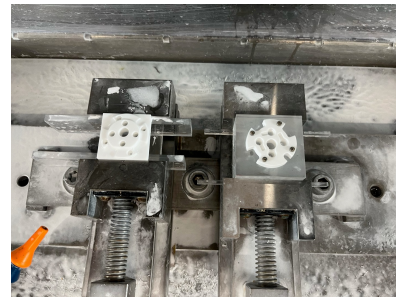
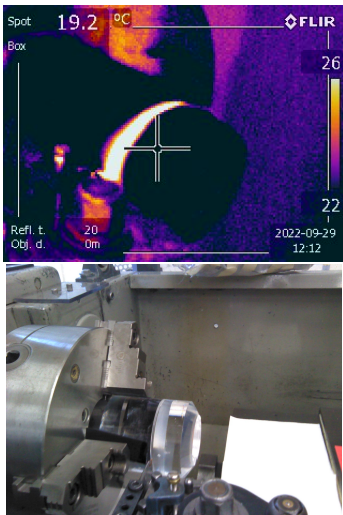


MITACS-funded Post-Doc Ryan Underwood at General Fusion, with neutron spectrometer 3D model. Conceptual design well received, developing next stage project, applying for NSERC Alliance grant.



Light-only Liquid Xenon (LOLX) detector: boards developed, assembled, cables arranged for cryostat. Shipped to McGill and loaded into cryostat.





MACOR Ceramics for TITAN

Using FLIR camera to prevent over-heating of high-value scintillator during machining

► Nov 22 to Apr 23. Excludes BAEs, students, and hires directly on projects

