

**TRIUMF
LIFE SCIENCES PROJECTS
EVALUATION COMMITTEE MEETING
JUNE 20 & 21, 2024
MOB AUDITORIUM
AGENDA**

THURSDAY, JUNE 20, 2024

IMPORTANT: The time allotted for each agenda topic has been noted in brackets under each timeslot. For each L# presentation, presenters have been provided the number of minutes to present + the number of minutes the Committee has to ask questions.

Time	Exp. #	Title	Spokesperson/Presenter (Status & Affiliation) (*TRIUMF)
07:30 (1.5 hrs)		In camera meeting & breakfast in TRIUMF MOB Boardroom – Closed Committee Meeting	
09:00 (10 mins)		Welcome Address & State of the Division in the TRIUMF MOB Auditorium	Paul Schaffer (PhD Chemistry, Director, Life Sciences*)
09:10 (15 mins + 5 mins)		BC Cancer Update	François Bénard (Senior Executive Director, BC Cancer Research Institute)
09:30 (15 mins + 5 mins)	L0 L99 L4	TR13 Facilities BCC 18F Production Target Research on TRIUMF Accelerators	Dave Prevost (BSc Nuclear Chemistry, Life Sciences Cyclotron Operations Group Leader*)
9:50 (8 mins + 2 mins)	L153	Measurement of radioactive samples with Life Sciences ICP-MS	Sheng Wu (BASc Applied Chemistry*)
10:00 (12 mins + 3 mins)	L158 L163	Production and Labeling of Radiometals from Solid Targets and Radiolabeling Construction, operation, and maintenance of a Ge/Ga 68 generator	Neil Weatherall (BSc Chemistry*)
10:15 (15 mins)		Coffee Break	
10:30 (15 mins + 5 mins)	L97 L98 L107	<i>PET Program Overview:</i> Human Studies and UBC/DMCBH MicroPET imaging program at UBC PET UBC PET Physics program	Jon Stoessl (MD, Professor & Head, Division of Neurology, Department of Medicine, Faculty of Medicine, UBC and Canada Research Chair, Parkinson's Disease)

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10:50 (12 mins + 3 mins)	L3	Synthesis of Radiopharmaceuticals for Positron Emission Tomography Update on TRIUMF Life Sciences' Quality Assurance Program	Qing Miao (PhD Chemistry*) Joe Huser (Diploma of Chemistry*)
11:05 (8 mins + 2 mins)	L107	UBC PET Physics program	Jordan Hanania (PhD Medical Physics, UBC)
11:15 (8 mins + 2 mins)	L169	Formation of volatile fatty acids (VFAs) and dissolved organic carbon (DOC) from alpha and gamma irradiation of rock minerals	Christopher Charles (PhD Physics*)
11:25 (8 mins + 2 min)	L146	Production of ^{56}Co Calibration Sources for Gamma-Ray Spectroscopy at ISAC	Adam Garnsworthy (PhD Nuclear Physics*)
11:35 (8 mins + 2 mins)	L167	Production of ^{93m}Mo sources for decay spectroscopy at TIGRESS/GRIFFIN	Jonathan Williams (PDF, PhD Chemistry*)
11:45 (12 mins + 3 mins)	L130 L168	Irradiation experiments related to medical physics Fiber irradiations for FLASH dosimetry at TR13	Cornelia Hoehr (PhD Physics, Deputy Director Life Sciences*)
12:00 (45 mins)		Lunch in the MOB Boardroom – Closed Committee Meeting	
12:45 (28 mins + 17 mins)	L122 L126 L136 L150 L154	<i>Program Overview:</i> Alpha-emitter studies using the ISAC Implantation Station Production of Imaging and Therapeutic Isotopes from Solid Targets at TR13 Mercury production from gold targets at the TR13 Radiochemical separation and application of spallation products derived from irradiated thorium Radiometals from liquid targets	Valery Radchenko (PhD Chemistry*) Luke Wharton (PDF, PhD Chemistry*) Aivija Grundmane (Student, PhD Candidate Chemistry, UBC) Behrad Saeedi (Student, PhD Candidate Inorganic Chemistry, UBC) Yumeela Ganga-Sah (PDF, PhD Chemistry*)

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13:30 (28 mins + 17 mins)	L150	<i>Program Overview:</i> Radiochemical separation and application of spallation products derived from irradiated thorium	Hua Yang (PhD Chemistry*) Luke Wharton (PDF, PhD Chemistry*)
	L152	Tb-161 purification and radiochemistry development	
	L157	Gold Nanogel Radiolabeling	
	L160	Production of Tb-155 from a solid target at TR13	
14:15 (28 mins + 17 mins)	L90	<i>Program Overview:</i> Enabling Technologies for Metallic Radioisotopes in Nuclear Medicine (Focus: Zr-89 labeling efforts)	Caterina Ramogida (PhD Chemistry* and Assistant Professor, SFU)
	L128	Production and application of theranostic Pb-203	
	L150	Radiochemical separation and application of spallation products derived from irradiated thorium	
	L151	Production and Application of the La-135/La-132 Theranostic Pair	
	L164	Experiments with Class 2 Biological Hazards	
15:00 (20 mins + 10 mins)	L101	<i>Program Overview:</i> F-18 labelled Amino Acids	Paul Schaffer (PhD Chemistry, Director, Life Sciences*) Helena Koniar (PDF, PhD Medical Physics*) Qing Miao (PhD Chemistry*) Stuart McDiarmid (BAPSc Engineering Physics*) Desiree Fiaccabrino (Student, PhD Candidate, Radiochemistry and Medical Inorganic Chemistry, UBC)
	L122	Alpha-emitter studies using the ISAC Implantation Station	
	L124	Irradiation of Thorium Targets at the TRIUMF 500 MeV Isotope Production Facility	
	L125	Isolation of medical isotopes from irradiated thorium metal targets	
	L138	Glucocerebrosidase PET Imaging Agents	
	L150	Radiochemical separation and application of spallation products derived from irradiated thorium	

Time	Exp. #	Title	Spokesperson/Presenter (Status & Affiliation) (*TRIUMF)
15:30 (20 mins)		Coffee Break & Student Poster Set-up	
15:50 (45 mins)		Student Poster Competition	
16:35 (10 mins)		Closing Statements & Wrap-up	
18:00		Committee Dinner	

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FRIDAY, JUNE 21, 2024

CLOSED MEETING

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08:00 (30 mins)		In camera meeting & breakfast in TRIUMF MOB Boardroom – Closed Committee Meeting	
08:30 (12 mins + 3 mins)	L159	Purification and recovery of Ra-226 as target for production of Ac-225 via (p,2n) reaction)	Eleanor Dunling (PhD Physics*)
08:45 (12 mins + 3 mins)	L90 L150	Enabling Technologies for Metallic Radioisotopes in Nuclear Medicine (Focus: Partnership with Aktis Oncology for Cu-64 and Lu-177 labeling efforts) Radiochemical separation and application of spallation products derived from irradiated thorium (Focus: Partnerships with BC Children’s Hospital and Aktis Oncology)	Paul Schaffer (PhD Chemistry, Director, Life Sciences*) Justin Bailey (PhD Organic Chemistry and Chemical Biology*) Kevin Ortner (PDF, PhD Radiochemistry*)
09:00 (12 mins + 3 mins)	L162	MAS – Microfluidic Alpha Sensor	Cornelia Hoehr (PhD Physics, Deputy Director Life Sciences*) Christian Aa. Diget (PhD Physics, Affiliate Scientist*)
09:15 (2 hours + 45 mins)		In camera meeting in TRIUMF MOB Boardroom – Closed Committee Meeting Write the LSPEC Report	
12:00 (1 hour)		Lunch	

Time	Exp. #	Title	Spokesperson/Presenter (Status & Affiliation) (*TRIUMF)
13:00 (1 hour)		<p>TRIUMF Facility Site Tour led by Paul Schaffer</p> <p>Tour Route:</p> <ul style="list-style-type: none"> • Exit Badge Room • Walk toward Meson Hall loading bay • Enter Meson Hall • Stop for view of Beamline 1A / Proton Therapy • Take staircase up to the mezzanine to tour top of 520 MeV cyclotron • Take staircase down to Meson Hall loading bay • Walk to the PET Scanner and view the materials science area / IPF • Walk through Meson Hall towards IAMI • View IAMI building and site • Re-enter MHESA and go downstairs to RCR basement • Exit Meson Hall via RCA hallway and discuss BWXT • Enter ISAC-I Experimental Hall via loading bay • Highlight βNMR/DRAGON • Exit ISAC-II via back entrance near remote handling • Return to Main Office Building via badge room 	
14:00 (1.5 hrs)		<p>In camera meeting in TRIUMF MOB Boardroom – Closed Committee Meeting</p> <p>Continue writing the LSPEC Report</p>	
15:30 (30 mins)		<p>Closing remarks & Committee assignments</p> <p>Wrap up & departures</p>	
16:00 (45 mins)		<p>Close Out Session – Nigel Smith’s Office</p> <p>Meeting between LSPEC Chair and TRIUMF’s Executive Director & CEO</p>	
16:45		<p>LSPEC Chair to depart</p>	