

CARLETON UNIVERSITY
Department of Mechanical and Aerospace Engineering
PH.D. THESIS EXAMINATION

CANDIDATE: *Xavier Walls Perez*
Bachelor of Science, Univ Nacional Auto de Mexico, 2017
Master of Science, Univ Nacional Auto de Mexico, 2020

DATE: *Tuesday May 19, 2026, 10:00 3324 Mackenzie Building/Video Conference*

THESIS TITLE: *Experimental Demonstration of Metallic Aluminum Production from a Lunar Highland Simulant and Its Utilization as Feedstock for Lunar Electron Beam Additive Manufacturing*

EXAMINATION BOARD:

External Examiner	Elena Baranova, Department of Chemical & Materials Engineering - Concordia University	(Video Conference)
Internal Examiner	Richard Ernst, Department of Earth Sciences	(In Person)
Member of Joint Institute	Aleksandra Nastic, Department of Mechanical Engineering	(In Person)
Member of Department	Abu Syed Kabir, Mechanical & Aerospace Engineering	(In Person)
Thesis Supervisor	Alex Ellery, Mechanical & Aerospace Engineering	(In Person)
Thesis Co-Supervisor	Katherine Marczenko, Department of Chemistry	(In Person)
Chair of Defence	Tom Smy, Department of Electronics	(In Person)
Chair/Director of Department or Designate	Edgar Matida	(Ex-officio)
Dean of Faculty	Ron Miller	(Ex-officio)
Vice-Provost, Graduate Studies	Nadeem Siddiqi	(Ex-officio)