

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

**CANDIDATE:** *Chris Bassindale*  
*Bachelor of Engineering, Carleton University, 2015*  
*Master of Applied Science, Carleton University, 2017*

**DATE:** *Wednesday December 06, 2023, 10:00 6112 Canal Building*

**THESIS TITLE:** *Development of a Material Selection Procedure for Natural Gas Pipelines based on the Crack Tip Opening Angle*

**EXAMINATION BOARD:**

<b>External Examiner</b>	Samer Adeeb, Civil & Environmental Engineering - University of Alberta	(Video Conference)
<b>Internal Examiner</b>	Heng Khoo, Civil & Environmental Engineering	(In Person)
<b>Member of Joint Institute</b>	Kuiying Chen, Mechanical Engineering - University of Ottawa	(In Person)
<b>Member of Department</b>	Ron Miller, Mechanical & Aerospace Engineering	(In Person)
<b>Thesis Supervisor</b>	Xin Wang, Mechanical & Aerospace Engineering	(In Person)
<b>Thesis Co-Supervisor</b>	Bill Tyson, CANMET Materials - National Research Council	(In Person)
<b>Chair/Director of Department or Designate</b>	Ron Miller	(Ex-officio)
<b>Dean of Faculty</b>	Larry Kostiuk	(Ex-officio)
<b>Dean, Faculty of Graduate and Postdoctoral Affairs</b>	Patrice Smith	(Ex-officio)