

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

**CANDIDATE:** Ghazi Alsuruji

**DATE:** Thursday January 09, 2020, 9:30 3124 Mackenzie Building

**THESIS TITLE:** CALPHAD Based Cellular Model of Dendrite Growth in Welds

**EXAMINATION BOARD:**

<b>External Examiner</b>	Ernst Kozeschnik, Vienna University of Technology (TuWien)	(In Person)
<b>Internal Examiner</b>	Fred Gaidies, Department of Earth Sciences	(In Person)
<b>Member of Department</b>	Abu Syed Kabir, Mechanical & Aerospace Engineering	(In Person)
<b>Member of Joint Institute</b>	Michel Nganbe, Mechanical Engineering - University of Ottawa	(In Person)
<b>Thesis Co-Supervisor</b>	John Goldak, Mechanical & Aerospace Engineering	(In Person)
<b>Chair/Director of Department or Designate</b>	Ronald Miller	(Ex-officio)
<b>Dean of Faculty</b>	Larry Kostiuik	(Ex-officio)
<b>Dean, Faculty of Graduate and Postdoctoral Affairs</b>	Patrice Smith	(Ex-officio)

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**Patrice Smith**  
**Dean, Faculty of Graduate and Postdoctoral Affairs**