



**Carleton**  
UNIVERSITY  
Canada's Capital University

**Infrastructure Resilience Research Group (IRRG)**  
**Office of the Dean, Faculty of Engineering and Design**

## DEAN'S LECTURE

### ECONOMIC SECURITY, RESILIENCE AND DE-CARBONIZATION OF HEAVY INDUSTRIES

Fairmont Château Laurier Hotel  
1 Rideau Street, Quebec Suite (Ottawa, Ontario)

**6:30 pm – 9:30 pm, Thursday, November 29, 2018**

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*The Dean's Annual Lecture Series brings together three distinguished speakers to address issues relating to the economy, infrastructure security and resilience before an audience of university faculty, post-graduate students, government officials, civil society and private sector representatives and diplomats. It is a landmark event which brings together experts from Canada and abroad to share knowledge with interested others. The Annual Lecture Series is intended for panelists to look into their crystal balls and offer their vision on economy, infrastructure security and resilience challenges and solutions for the next 5 to 10 years.*

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#### HOST

**Felix Kwamena**, Ph.D. Adjunct Professor and Director, Infrastructure and Resilience Research Group (IRRG), Faculty of Engineering and Design, Carleton University

#### A G E N D A

**6:30 pm – 6:45 pm WELCOME REMARKS AND INTRODUCTIONS**

**Fred F. Afagh, Ph.D., P.Eng.**, Interim Dean, Faculty of Engineering and Design

**6:45 pm – 8:15 pm PANEL PRESENTATIONS**

**International Supply Chain Opportunities and Challenges**

Alan Young, Chair, International Institute of Sustainable Development

**Heavy Industry and De-Carbonization**

Chris Bataille, Author, Inter-governmental Panel on Climate Change

***Paradigm Shift – De-Carbonized Heavy Industry as a Competitive Long-Term Advantage***

Shahrzad Rahbar, Ph.D., ICD,D., President, Industrial Gas Users Association

**8:15 pm – 8:45 pm FACILITATED DISCUSSION**

**Andre Plourde, Ph. D.**, Dean, Faculty of Public Affairs

**8:45 pm – 8:50 pm CLOSING REMARKS**

**Felix Kwamena**, Ph.D. Adjunct Professor and Director, Infrastructure and Resilience Research Group (IRRG), Faculty of Engineering and Design, Carleton University

**8:50 pm – 9:30 pm NETWORKING RECEPTION**

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