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PRESENTED BY THE WATERLOO INSTITUTE FOR SUSTAINABLE ENERGY

Thursday July 4, 2019
10:30 am – 11:30 am
CPH 4335

HYDROGEN AS A SUSTAINABLE FUEL: ITS ROLE GLOBALLY AND IN ONTARIO

Dr. Ofelia A. Jianu, Assistant Professor, Department of Mechanical, Automotive and Materials Engineering, University of Windsor

Canada is recognized internationally as the leader in hydrogen research, development and utilization. Hydrogen has promising potential to become a major fuel of the future as it is an energy carrier that may be produced from local, zero-carbon sources such as water and consumed by non-emitting devices such as fuel cells. This talk focuses on why and how transitioning to a hydrogen-based economy would alleviate concerns related to climate, air quality and energy security as well as create new economic opportunities for Canadians.

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Biography

Dr. Jianu is an Assistant Professor of Mechanical Engineering at the University of Windsor in the Department of Mechanical, Automotive and Materials Engineering. Her area of expertise involves energy systems, specifically multiphase chemically reacting flows, hydrogen production, and the thermochemical copper-chlorine cycle for water splitting.

She has published over 20 journal and conference papers, involving particle dynamics, dissolution and transport processes for hydrogen production. She is the recipient of the Canadian Foundation for Innovation John R. Evans Leader's Fund.

Prior to joining the University of Windsor, Dr. Jianu was Project Manager of the ORF-RE "Phase 2" project at the University of Ontario Institute of Technology. Dr. Jianu and her team continue to investigate phase transitions and transport phenomena with the goal of identifying local irreversibilities which are detrimental to the performance of sustainable energy systems.

Dr. Jianu's research benefits Canada's efforts in reducing greenhouse gas emissions and support economic growth of clean technology leading to the creation of new jobs, economic incentives for new investment and commercialization opportunities in the clean energy sector.

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