CONFERENCE WEBSITE

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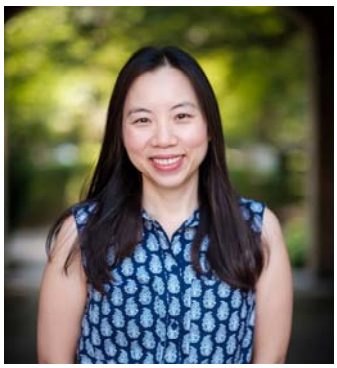
2021 International Green Energy Conference

(IGEC-XIII)

July 15-18, 2021 | Tianjin, China

Name	Prof. Aimy Bazylak
Affiliation	University of Toronto



Invited Keynote Lecture

Presentation Title	**In operando imaging for carbon dioxide electrolysis**
Abstract (Approximately 200 words)	A sustainable future requires that we harness renewable but intermittent sources of energy and transmit or store it to address real world patterns of use. Renewable energy can be used to sequester CO_2 into a variety of products, such as carbon-neutral fuels and chemical feedstocks, thereby reducing atmospheric CO_2. Reducing atmospheric CO_2 levels requires the substitution of clean power for carbon-intensive fuels as well as CO_2 conversion processes that transform emissions into useful chemical products. This talk will discuss our latest work on performing in operando imaging of carbon dioxide electrolyzers to understand the role of mass transport losses on overall performance.
Biographical Sketch (Approximately 200 words)	Prof. Aimy Bazylak is the Canada Research Chair in Thermofluidics for Clean Energy and Professor in the Department of Mechanical and Industrial Engineering at the U of T. In 2011, she was awarded the I.W. Smith Award from the Canadian Society for Mechanical Engineering, and she received the Ontario Early Researcher Award in 2012. From 2015-2018, she served as the Director of the U of T Institute for Sustainable Energy. In 2015 she was named an Alexander Von Humboldt Fellow (Germany), and in 2019 she was named a Fellow of the American Society of Mechanical Engineers. In 2020, she was named a Helmholtz International Fellow (Germany), was awarded the U of T McLean Award, and was elected to the Royal Society of Canada College of New Scholars, Artists and Scientists.

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