



EIC Fellow

Heather L. MacLean

Nominated by the Canadian Society for Chemical Engineering

Heather MacLean is a professor in the Department of Civil Engineering at the University of Toronto. She is internationally recognized for her expertise in the development and application of life cycle-based approaches for the techno-economic and environmental evaluation of bioenergy systems (for transportation and electricity generation), unconventional fossil resources (oil sands-derived fuels) and alternative fuels/propulsion systems for light-duty vehicles.

Over the last 15 years, she has worked closely with the automotive, oil, electricity and biofuel industries, as well as federal and provincial/state governments, to determine the sustainability of various energy sources. She has served on industry and government advisory committees in both Canada and the U.S and her research has informed the development of energy and environmental policy in both countries.

Professor MacLean has made significant contributions to engineering education, introducing sustainability evaluation into the engineering curriculum at UofT by developing new undergraduate and graduate courses in this area.

She was awarded the 2014 Canada Mortgage and Housing Corporation Excellence in Education Award for Promotion of Sustainable Practices for this achievement.

Ladies & gentlemen and Mr. President, please welcome Heather MacLean as a Fellow of the Engineering Institute of Canada.