



EIC Fellow

John J. McPhee

Nominated by the Canadian Society for Mechanical Engineering

John McPhee is recognized as Canada's foremost researcher in the field of systems dynamics with principal applications to the analysis and design of vehicles, mechatronic devices and biomedical systems. He pioneered the use of linear graph theory to model multi domain dynamic systems, and his research algorithms have been commercialized by Maplesoft with the MapleSim engineering package, which is used by thousands of engineers and researchers all over the world.

He has won several research including best paper awards, the CSME I. W. Smith award, and the Premier Research Excellence Award. He has authored over 250 peer-reviewed papers, consulted to many industries in Canada and the United States and appeared as an expert witness in the Federal Court of Canada.

He has served as an associate editor for seven international journals, two of which he founded: Multibody System Dynamics and the ASME Journal of Computational and Nonlinear Dynamics - which are the two flagship journals in his field.

He has given invited keynote presentations around the globe, delivered webinars on automotive systems modeling to thousands of practicing engineers. He is a Fellow of the Canadian and American Society for Mechanical Engineers. In 2014, he received the prestigious NSERC Synergy Award from the Governor General of Canada.

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