

Professor Richard Boudreault joined Sigma Xi in 2006 and served as Vice-President of the McGill Chapter in Montreal, QC from 2016–2018. He recently completed his second term as the Director of Sigma Xi’s Canadian/International Constituency Group and Chair of the Committee on Global Outreach. Boudreault has served as a member of the Committees on Awards and Development.

Boudreault is the CEO for Dymedso, a firm that has developed and is commercializing a medical device for the treatment of lung issues, such as those resulting from COVID-19 illnesses.

He is a serial STEM entrepreneur with more than 12 successful corporations, most have been integrated to global multinationals such as GE, Microsoft, Essilor, Textron, a third became public entities in the c. B\$ valuation, and two are presently in the scale-up phase. He held board and chair positions in crown corporations and agencies and was key in the approval and deployment of five Big Science projects. As inaugural chair of Polar Knowledge Canada, the national polar agency, he was directly engaged in understanding the impacts of climate change on the poles and the planet, where he practiced science diplomacy with circumpolar countries.

Professor Boudreault teaches at McGill University, University of Waterloo and at École Polytechnique (Polytechnic School) in Montreal. He holds an Honors Bachelor’s degree specializing in applied physics from University of Montreal, an MBA from University of Sherbrooke, and a professional Master’s Degree in aerospace engineering from Cornell University.

Boudreault is a national authority on space engineering, earth systems, and science with more than 40 years’ experience. He is involved with integrating Traditional Knowledge of First Nations and Inuit communities in current polar research, exploration, and science streams. He is Governor of the First Nations University of Canada and chair or board member of many STEM corporations and research institutions. Overall, he has been involved with governance of 30 corporations, agencies, and institutes.

Professor Boudreault is Honorary Fellow of the Royal Canadian Geographic’s Society, Fellow of the Royal Society of Canada, of the UK’s Institute of Physics, the Canadian Meteorological and Oceanography Society, the Canadian Academy of Engineering, of the International Academy of Astronautics, of the Canadian Astronautics and Space Institute, Associate Fellow of the American Institute of Aeronautics and Astronautics, and a senior member of the Institute of Electronics and Electrical Engineers.

He was awarded the APS George E. Pake innovation management prize, the IEEE Engineering in Medicine and Biology Society’s Professional Career Award, The QE II Diamond Jubilee Medal,

the Canadian Association Physicist award for outstanding service in Photonics, the Gold Medal of the RCGS, and was Knighted in the France Order of the Academic Palms.

“Science has so much to offer and it needs to be accessible. Sigma Xi has a major part to play in improving international collaboration, improving the reach of chapters, scientists and engineers globally, in a changing world order.” – Richard Boudreault