

Benoit Barbeau is a tenured professor in the department of Civil, Geological and Mining Engineering of École Polytechnique de Montréal where he holds since 2005 an associate *Industrial-NSERC Chair in Drinking Water Treatment and Distribution* as well the role of director of CREDEAU, the *Center of Research, Development & Validation of Water Treatment Technologies*. Prof. Barbeau served for eight years (2002-2010) on the Quebec Drinking Water Treatment Committee in charge of validating municipal drinking water treatment processes before their introduction in the municipal water market. Since 2005, Prof. Barbeau is also serving on the Quebec Public Health Institute Committee on Water which recommends water-related guidelines to the Quebec MOE. At this point in his career, the contribution of Dr. Barbeau to the drinking water industry has already been recognized by awarding him the AWWA Fuller Award in 2010 and the 2013 ADRIQ/NSERC prize for industrial research partnerships.

As part of his NSERC Chair, the main focus of Dr. Barbeau research revolves around the development of novel treatment strategies for drinking water. His work involves the development of hybrid membrane processes, the development of novel adsorbents such as magnetic activated carbon or regenerable polymeric-based sorbents. In collaboration with VEOLIA, research is also conducted on the use of bio-sourced chemicals. In 2008, Dr. Barbeau joins RES'EAU-WATERNET, an NSERC Strategic Research Network dedicated to the provision of Safe Drinking Water to Small Rural Communities. He acts as a Theme Leader on Process Development and also leads various collaborative projects on manganese removal in groundwater as well as micro-pollutants and organic matter reductions in surface waters. The expertise of Prof. Barbeau embraces various processes such as oxidation (O_3 , $KMnO_4$, Cl_2 , AOP, etc.), adsorption (IX, GAC, PAC), membrane separation (MF, UF, NF), coagulation/settling/granular media filtration, biological treatment (especially BAC filtration) & catalytic oxidation.