

Date: June 25
Time: 10:15 am – 11:15 am
Room: SL 165

Everyone is invited

Metal Hexaborides, a Path to Engineered Catalyst Layers for Polymer Electrolyte Fuel Cells?

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Abstract. An overview of the candidate's work in the field of polymer electrolyte fuel cells will be followed by a discussion of the technical barriers to the commercialization of this technology. Particular emphasis will be placed on the development of novel catalyst layer structures and catalyst compositions as a means of reducing the cost of polymer electrolyte fuel cells and of increasing their durability. A catalyst possessing unique qualities due to the use of metal hexaborides as a support for platinum will be described and a proposal will be made to rationally design a catalyst layer using this catalyst material.

About the Speaker.

- B.Sc. Biochemistry, McGill University, Montreal, Canada: 1986-1990
- B.Eng. Chemical Engineering, McGill University, Montreal Canada: 1990-1993
- Ph.D., Polymer Electrolyte Fuel Cell Catalysts, University of Quebec, Varennes, Quebec: 1993-1998
- NSERC Industrial Post Doctoral Fellow, H-Power Canada, St-Laurent, Quebec: 1999-2001
- Research Scientist, R&D, Ballard Power Systems, Burnaby, BC: 2001-