

Prof. Peter McBreen holds a PhD in Physical Chemistry (1981) from the University of Toronto. Working under the direction of Prof. Martin Moskovits he studied the plasmonic properties of copper and silver in relation to Surface Enhanced Raman Spectroscopy. He then joined Prof. Harald Ibach's group in Jülich, Germany, as an Alexander von Humboldt Fellow, where he worked on surface studies of Fischer-Tropsch chemistry. Dr. McBreen's research activities at Université Laval are in the area of the catalytic activity of metal and metal carbide surfaces. His group uses surface spectroscopy and scanning tunneling microscopy to study olefin metathesis on molybdenum carbide, stereoselective hydrogenation on platinum, as well as to develop new surface functionalization methods.