



# Member Profile

## Dr. Ian Hamilton, Research Theme Coordinator

Dr. Ian Hamilton coordinates the priority research theme at the Institute on Mechanics and Materials Science (Tecton 3) Dr. Hamilton joined the Institute in 2014.

He started teaching at Wilfrid Laurier University in 1994 where he is now a professor for the Department of Chemistry. Dr. Hamilton is also an adjunct professor of Chemistry at the University of Waterloo. He has been a research associate at the University of Chicago as well as a university research fellow at the University of Ottawa. He earned his PhD in theoretical and computational chemistry at the University of Toronto. He also received his BSc from the same institution.

In 2012, Dr. Hamilton received the Computational and Mathematical Methods in Science and Engineering Award. His research is focused on several interrelated areas of computational and theoretical chemistry.

Dr. Hamilton looks at semiconductor nanocrystals and gold nanostructures as well as complexes and compound of metals that are of significance in environmental chemistry. He is also interested in functionals of the electron density and formulations of the quantum - classical correspondence in which electron density is the fundamental variable. Dr. Hamilton's research is funded through a Natural Sciences and Engineering Research Council Discovery Grant.



Dr. Hamilton welcomes inquiries from potential graduate and undergraduate students. He has research assistantships available for any students interested in computational and theoretical chemistry.

