

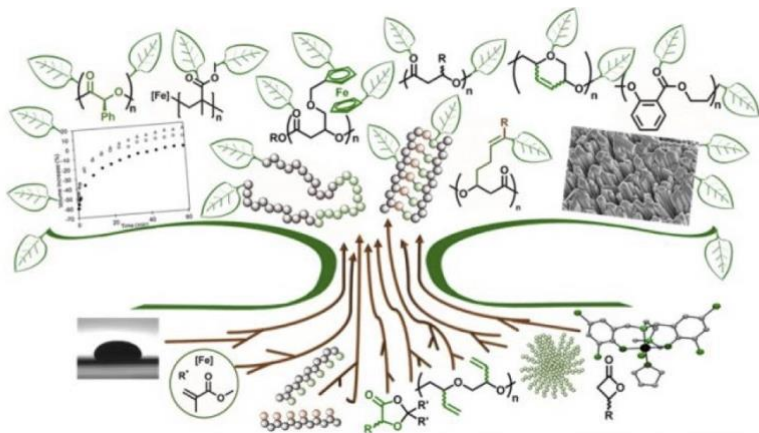
Warwick Chemistry Departmental Seminar



Prof Michael Shaver

University of Edinburgh

26th October 2017



4.00 pm, Physics Lecture Theatre, Science Concourse

‘New Monomers in Ring Opening and Radical Polymerisations’

The Shaver group’s research interests bridge a number of disciplines within chemistry, incorporating aspects of green chemistry, organometallics, materials science and organic synthesis to the field of polymer chemistry. The group’s focus is on controlling the synthesis of polymers in order to tune the properties of the resultant materials. To do this we depend upon metal complexes to mediate controlled radical polymerizations and ring opening polymerization. Unifying these projects is the theme of catalyst design. Ligand frameworks allow us to design metal complexes that are able to control various aspects of polymerization reactions including molecular weight, polydispersity, stereospecificity and structure. These molecular properties impart control over the materials properties, allowing us to tune our polymers to specific applications.

Prof. Mike Shaver graduated from Mt. Allison University with a BSc (Honours), first learning how to use a Schlenk line from Steve Westcott. He then went west to pursue a PhD from the University of British Columbia under the direction of Mike Fryzuk. After an NSERC postdoctoral fellowship at Imperial College London with Vernon Gibson, Mike accepted a faculty position at UPEI in a reverse-culture-shock-homecoming of sorts. After a productive 5 years on PEI, he decided to leave for pastures new and accepted a Chancellor’s Fellowship at the University of Edinburgh. He was promoted to Professor and a Personal Chair in Polymer Chemistry in 2017.