

## **Professor Gregory Chass, Queen Mary, University of London**

Dr Gregory A. Chass (GC) completed his BSc in Chemistry at the University of Toronto, Canada and his PhD (2002) between U. Toronto and U. Szeged in Hungary (research topic: Towards a Synergy between Experiment and Theory for Anti-oxidant Mechanisms). From 2002-2004, he worked as a post-doctoral fellow in Canada, USA and France, followed by a research position in Spain (2004-5) and a visiting professorship in Beijing (2005-6). From 2006-2010, he served as a lecturer in physical chemistry at the University of Wales, Bangor, UK. In 2011, he was appointed as a Reader in physical & theoretical Chemistry at Queen Mary, University of London, UK.

Research focus & expertise lie in experimental (neutron scattering, muon-spin resonance) and theoretical (DFT, post-HF, *ab initio* dynamics) characterization, optimization and design of novel industrial catalysts, and bioactive composites for use as bone/tooth replacements. Additional focus involves tracking of radical-scavenging mechanisms in natural anti-oxidants and traditional Chinese medicines. GC's vision has also led to the development of standardized theoretical methods and evolved treatments of solvent effect. GC has published 79 articles & reviews, ~1/2 as senior author in 18 different scientific journals. Since 2008, GC has secured more than £1.5M in funding from STFC, UK to establish a quantitative synergy between neutron & muon beam experiments and quantum theory, in addition to generous funding from the EPSRC and the Royal Society to optimize and design novel industrial catalysts.