Warwick Medical Imaging Network (W-MIN) Seminar

‘Nanoparticles as Medical Imaging Probes’

Dr Gemma-Louise Davies
Global Research Fellow, Institute of Advanced Study (IAS), Chemistry, University of Warwick

Friday 30th May, 3 pm, IDL auditorium

There will be refreshments available in the foyer from 2.30 pm – 4.45 pm, and a chance to network before and after the seminar. All are welcome.

Abstract: Nanomaterials have the ability to revolutionise a wide variety of fields, from medicine to industry. This talk will describe the design of nanocomposite magnetic resonance imaging (MRI) contrast agents which demonstrate high relaxivities and bio-responsive contrast switching, as well as fluorescent nanoparticles as optical imaging probes.

Biography: Dr Gemma-Louise Davies carried out her Undergraduate degree in Trinity College Dublin (TCD) in Ireland, remaining there to work towards her PhD in the School of Chemistry and CRANN Institute under the supervision of Prof Yurii Gun'ko. She completed her PhD investigating functional nanomaterials in 2011. After a brief Industry-supported Postdoctoral position in TCD, Gemma-Louise moved to the picturesque University of Oxford to work as a Postdoctoral research assistant for 2 years in the group of Dr Jason Davis, working closely with Profs Paul Beer and Stephen Faulkner on bi-functional $^1$H and $^{19}$F MRI contrast agents. She joined Warwick in October 2013 as an Institute of Advanced Study (IAS) Global Research Fellow, hosted in the Department of Chemistry. Her research is strongly interdisciplinary, lying at the interface between chemistry, materials science and medicine, and she is currently focussing on the development of new multi-purpose medical diagnostic and therapeutic devices: the emerging field of ‘theranostics’.

Organised by Joanna Collingwood, School of Engineering, and Tom Nichols, WMG, on behalf of W-MIN