



**ANSTO Distinguished Lecture Talk
Followed by WiN-Australia Luncheon
11:00am – Monday 6th February
Building 5 AINSE Theatre, ANSTO**

Polymers and Neutron Scattering

Professor Higgins was introduced to the new experimental applications of neutron scattering as a doctoral student and was fortunate to be in the front-line as new techniques for exploiting the neutron have been developed. A thread running through her career has been the successful application of a number of these techniques to understanding the organisation and behaviour of long polymer molecules. She will outline the basis of the techniques and their relevance to fundamental questions in polymer science such as exploring the way that molecular organisation and motion controls polymer behaviour.

Biography

Professor Dame Julia Higgins DBE FRS FREng

Emeritus Professor of Polymer Science in the Department of Chemical Engineering in Imperial College, London, her research career has focussed on the application of scattering techniques, notably neutron scattering, to the understanding of polymer behaviour. She was Dean and then Principal of the Faculty of Engineering in Imperial College.

She is a Fellow of both the Royal Society and the Royal Academy of Engineering and a Foreign Member of the US National Academy of Engineering. She is a Dame of the British Empire and a Chevalier of the Legion d'Honneur.

Chair of EPSRC from 2003 to 2007, Vice President and Foreign secretary of the Royal Society 2001 to 2006, and Vice President of the Royal Academy of Engineering 2008-2011. She has recently completed a three year term as Chair of the Advisory Committee on Mathematics Education (ACME)

Professor Higgins has also chaired the Steering Committee of the Athena Project, a UK initiative aiming to 'advance and promote the careers of women in science, engineering and technology in higher education and research and to achieve a significant increase in the number of women recruited to top posts in the UK'.

WiN members please rsvp to winaustralia@gmail.com or via our [Facebook](#) page by COB Friday 3rd February to assist with catering purposes.