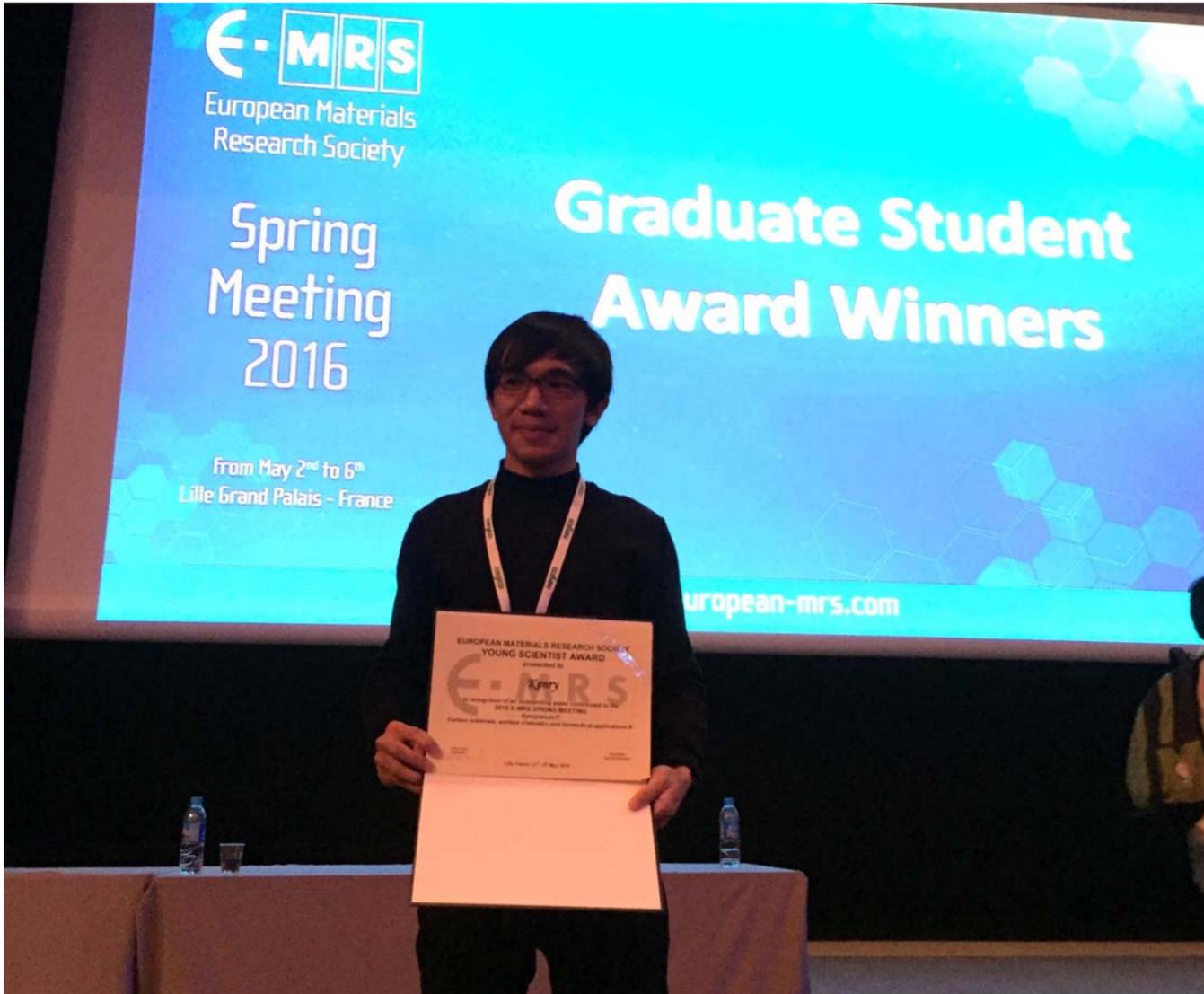


10 May 2016

Recognised for his work on interaction of nanomaterials with blood plasma proteins



Mr Kenry, a winner of the E-MRS 2016 Graduate Student Award, which was presented at the E-MRS 2016 Spring Meeting and Exhibit held in Lille, France.

PhD student Mr Kenry (NUS Graduate School for Integrative Sciences and Engineering) is one of the winners recognised for their outstanding research and technological development in functional materials. He received the European Materials Research Society (E-MRS) Graduate Student Award, which was presented at the E-MRS 2016 Spring Meeting and Exhibit held in Lille, France, from 2 to 6 May 2016.

Mr Kenry's research, which is conducted under the direction of Professor Lim Chwee Teck from the Department of Biomedical Engineering, sheds light on how nanomaterials, in particular graphene oxide (GO), interact with blood plasma proteins, and if GO-based approaches could be effectively used to combat hematology-related disorders such as surface-activated thrombosis. The research also delves deeper into the absorption, binding kinetics and equilibrium, and conformational stability of plasma proteins with GO.

Through his research, Mr Kenry has found that GO and blood plasma proteins bind strongly depending on the physical size of GO. Additional evaluation of the anti-thrombotic property of functionalised GO reveals its potential to mitigate haematological disorders. This facilitates further exploration into the nanotechnology-based strategies for haematological and other biological applications.

Founded in 1983, the European Materials Research Society (E-MRS) has more than 3,200 members from industry, government, academia and research laboratories, who meet regularly to debate recent technological developments of functional materials. It provides an interdisciplinary platform for scientists, engineers and research managers to exchange information and recognises professional and technical excellence by promoting awards for achievement from student to senior scientist level. E-MRS' major society conference, the E-MRS Spring Meeting, is organised every year in May or June, and offers on average 25 topical symposia.