

School of Materials Science and Engineering



**Seminar Topic:  
Understanding the Flame Retardancy Behaviour of Polymers**

**Associate Professor Aravind Dasari**

**Abstract**

The poor fire resistance of most common engineering polymeric materials is a critical issue for obvious reasons of life safety in many sectors, such as building and construction, transportation, and electronics. In this presentation, I will talk about my research journey in this topic by briefly providing an overview of the topic itself, some of our recent research activities in the field, and perspectives.

'Perspectives' are critical, considering the number of parameters which can be used to characterise the flame performance of a polymer system and its scalability. Some of these parameters include time-to-ignition, flame spread, heat release rates, total heat released, toxicity of volatiles and smoke density.

**Biography**

Dr Aravind Dasari has been an Associate Professor in the School of Materials Science and Engineering, Nanyang Technological University, Singapore since 2011. He obtained his PhD in Materials Engineering from The University of Sydney, Australia in 2007. His team's research emphasises the design and development of hybrid polymers, composites/nanocomposites and coatings for utilisation in sectors, such as construction/building, marine and offshore, electrical and electronics, food packaging and renewable energy. He has authored/co-authored more than 75 articles in international journals, such as Progress in Polymer Science, Macromolecules, Acta Materialia and Materials Science and Engineering R: Reports along with 2 books and 9 book chapters. The impact of his research is reflected in an H-index of 36 (to date) and resulted in disclosures/licensed technologies in the relevant fields.

**Wednesday, 17 April 2019 || Time: 2:00 – 3:00 pm**

**Venue: MSE Meeting Room (N4.1-01-28)**

**Hosted by: Associate Professor Li Shuzhou**

Office of Associate Chair (Research)

Email: [vd-mse@ntu.edu.sg](mailto:vd-mse@ntu.edu.sg)

[www.ntu.edu.sg/mse](http://www.ntu.edu.sg/mse)