



**Seminar Topic:**

**Understanding a polymer's flame response in UL94 test**

**Associate Professor Aravind Dasari**

**Abstract**

In this presentation, I will introduce and talk about our recent efforts related to a piece of work on flame retardancy of polymers. The scale of testing that was used here is small as well so that we can restrict the focus of our discussions. This test, Underwriter Laboratories (UL)-94, is commonly used for testing flame retardancy behavior of polymers, and the flammability characteristics in terms of vertical upward burning, burning time and dripping behavior (melt and flame drips) are monitored. Though there are significant number of studies using the UL94 test for evaluating the flame response of different polymer formulations, due to the qualitative nature of the test the understanding of the governing parameters is still lacking. Therefore, in this presentation, I will spend some time setting up the problem and illustrating what our efforts are moving forward when it comes to designing polymer formulations for passing this test.

**Biography**

Associate Professor Aravind Dasari has been with the School of Materials Science and Engineering, Nanyang Technological University, Singapore since 2011. His research emphasizes on the design and development of hybrid polymers, composites/nanocomposites and coatings thereof for utilization in construction/building sector, marine and offshore industry, electrical and electronic industries, and renewable energy sector.

**Wednesday, 9 November 2022 || Time: 2:00 pm - 3:00 pm ||**

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

**Please register [here](#).**

**Hosted by: Associate Professor Lu Xuehong**