

**Title**      **Controllable Supramolecular Polymerization**

**Speaker**    Prof. Xi Zhang  
Professor, Department of Chemistry  
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China



**Date & Time**   Wednesday, February 8, 2016    4:00 p.m.

**Place**            I<sup>2</sup>CNER Hall, Ito campus, Kyushu University

**Abstract**

Supramolecular polymers are of great interest because the nature of noncovalent interactions holding them together imparts dynamic, reversible, self-healing, and degradable features to these materials. Although the study of supramolecular polymers has made considerable progress, it remains a big challenge to realize control over supramolecular polymerization. In this presentation, I will introduce two strategies to fabricate supramolecular polymers, leading to advancement of controllable supramolecular polymerization. One is supramolecular polymerization promoted and controlled by molecular self-sorting. The other method involves noncovalent preparation of supramonomers and covalent polymerization of the supramonomers. It is highly anticipated that these studies will enrich the methodology of fabricating supramolecular polymers with molecular weight and structure control.

**About the Speaker**

Prof. Xi Zhang is a professor from the Department of Chemistry of Tsinghua University, Beijing, China. He received PhD degree in Polymer Chemistry and Physics at Jilin University in 1992 under the supervision of Prof. Jiacong Shen and Prof. Helmut Ringsdorf. He joined the Department of Chemistry at Jilin University as a lecturer in 1992 and was then promoted to be a professor in 1994. He got Changjiang special professorship from Ministry of Education in 1999. He moved to Tsinghua University in late 2003. Currently, he serves Director of the Department of Chemical Science, National Natural Science of Foundation of China (NSFC); Director of Academic Committee of Tsinghua University; Vice President of Chinese Chemical Society; the President of Pacific Polymer Federation. He is Senior Editor of Langmuir and Editor-in-Chief of Acta Polymerica Sinica. He was selected as a Member of Chinese Academy of Sciences (2007), RSC Fellow (2008), ACS Fellow (2016). His research interest focuses on combining polymer chemistry with supramolecular chemistry to develop molecular engineering of functional supramolecular systems.

**Host: Professor Atsushi Takahara**

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