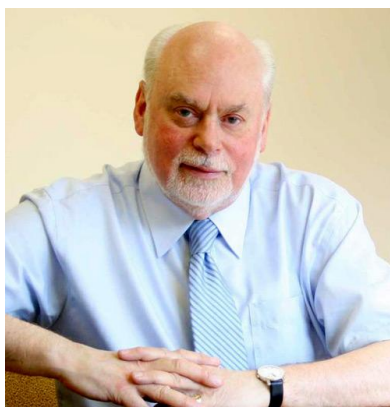


## CBC SEMINAR ANNOUNCEMENT



**Professor Sir Fraser Stoddart  
Northwestern University**

### **The Beauty and Promise of Molecular Nanotechnology**

This lecture will highlight the contribution that the introduction of a brand new chemical bond, often called the mechanical bond, into molecules that constitute chemical compounds is making to the construction of nanoscale entities, many of which turn out to be works of art with intellectually stimulating and visually captivating topological forms in their own right. Yet other nanoscale entities, where function has been incorporated along with structural form, are finding their way, through the fabrication of integrated systems, into molecular electronic devices and drug delivery systems. Nanoelectromechanical systems in the shape of artificial molecular switches, however, are now a dime a dozen. The grand challenge — similar in many ways to that faced by the early aviators of just over a century ago — which confronts molecular nanotechnologists today is to make that daring leap forward from switches to the machines of tomorrow, egged on by the fact that we ourselves operate in large measure under the exquisite control of sophisticated molecular machinery.

<b>Date:</b>	<b>7<sup>th</sup> February 2012 (Tuesday)</b>
<b>Time:</b>	<b>11:30am – 1:00pm</b>
<b>Venue:</b>	<b>NTU SPMS LT1</b>
<b>Host:</b>	<b>Asst Professor Zhao Yanli</b>