

## CBC SEMINAR ANNOUNCEMENT



**Professor Tomislav Rovis  
Colorado State University**

### **Design and Utility of Chiral Carbenes for Asymmetric Umpolung**

The reversal of a functional group's normal mode of reactivity, termed umpolung, leads to novel ways for bond formation. Nucleophilic carbenes convert aldehydes into acyl anion equivalents via the so-called Breslow intermediate. We have developed a family of chiral nucleophilic carbene catalysts to render this process asymmetric with a heavy focus on carbon-carbon bond formation, using a variety of prochiral electrophiles. Catalyst design and mechanistic investigations with an emphasis on recent developments will be discussed.

<b>Date:</b>	<b>18<sup>th</sup> April 2012 (Wednesday)</b>
<b>Time:</b>	<b>11am – 12:30pm</b>
<b>Venue:</b>	<b>NTU SPMS CBC Building Level 2, Conference Room</b>
<b>Host:</b>	<b>Asst Professor Robin Chi</b>