

Special Organic Seminar

presenting

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“Atomic Resolution Electron Microscopy: A New Tool for Organic Chemists”

Abstract. In February 2007, we reported movies of the conformational change of a single organic molecule recorded on an atomic resolution transmission electron microscope (TEM). This single-molecule atomic real-time TEM (SMART-TEM) movie of a single molecule provided the first demonstration of our ability to study the connectivity of carbon atoms and their time-dependent changes of single organic molecules and molecular clusters at atomic resolution. Below are illustrated the frames of a movie of a biotin derivative attached to the tip of a carbon nanotube moving slowly in vacuum. Fundamental science and applications will be discussed.

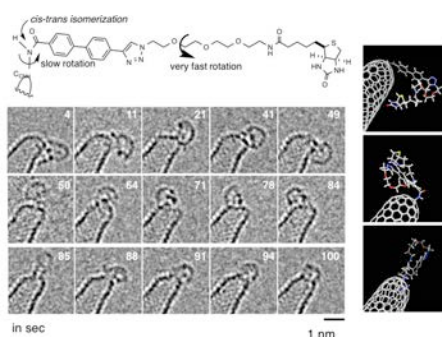


Figure 1. SMART-TEM imaging of the motion of a biotin derivative

Wednesday, May 11, 2016

1:30 PM

Cram Conference Room – 3440 Molecular Sciences Bldg