

# The 175<sup>th</sup> iCeMS SEMINAR

CeMI Seminar Series 43

**16 September 2014**  
**10:00-11:00**

## **Nanoscale organization and dynamics of single synapses**

Lecturer: **Assoc Prof Thomas Blanpied**  
Department of Physiology, School of Medicine  
University of Maryland, USA

Venue: 2nd Floor Seminar Room (#A207)  
iCeMS Main Building (#70) Kyoto University

Precise modulation of the brain's excitatory synapses underlies diverse forms of neural plasticity. The overall aim of the work by the group of Dr. Blanpied is to understand how synapse structure enables fine tuning of synaptic function. As this is essentially a question of how macromolecular dynamics play out in the neuron, they study this in live cells and most recently have used single-molecule imaging techniques to visualize in unprecedented detail the protein organization and dynamics of signaling at single synapses.

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**Hosted by:** iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University

