

CBST/CMET Webinar



DATE:

June 9, 2017

TIME:

10:45 a.m.

LOCATION:

240 Colburn Lab

Dr. Thomas Laue

Dept. of Molecular, Cellular & Biomedical Sciences

University of New Hampshire

"Implications of High Concentrations in Biological Systems"

Biological systems function at very high concentrations, so high that the cell cytosol often is referred to as being a gel rather than a solution. These systems are crowded, have very high surface area to volume ratios, and consist of thousands of kinds of molecules that must interact properly to function. Two questions spring to mind: 1) How have the systems evolved to allow such complex, high-concentration mixtures to exist without encountering solubility difficulties? and 2) Is there a passive mechanism available to localize molecules in a manner that will promote 'correct' interactions and limit 'incorrect' interactions? This talk will describe one possible mechanism that may be important in addressing these questions.

Department of Chemical & Biomolecular Engineering

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