

The 40th iCeMS SEMINAR

CeMI セミナーシリーズ 12

2009 11. 26 (木)
10:00-12:00

講演者: **Prof. Charles Schmuttenmaer**
Department of Chemistry
Yale University

演 題: **Using Terahertz Spectroscopy to Characterize
Materials used in Alternative Solar Energy Devices**

場 所: 京都大学 北部キャンパス
理学研究科 5号館 413号室

Thin films of TiO_2 nanoparticles (NPs) form the material of choice for dye-sensitized solar cells (DSSCs). I will describe experiments that characterize the intrinsic conductivity of this material as well as that of nanorods (NRs) and nanotubes (NTs). In addition, I will describe THz experiments that measure the efficiency of electron photoinjection from the adsorbed dye molecules into the TiO_2 nanomaterial.

