

The 40th iCeMS SEMINAR

CeMI Seminar Series 12

Thu 26 Nov 2009
10:00-12:00

Lecturer: **Prof. Charles Schmuttenmaer**
Department of Chemistry
Yale University

Using Terahertz Spectroscopy to Characterize Materials used in Alternative Solar Energy Devices

Venue: Room # 413, 5th Building of the Department of Physics
Graduate School of Science, Kyoto University

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 photo-injection from the adsorbed dye molecules into the TiO_2 nanomaterial.

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

