Catalytic selective synthesis is one of the primary challenges in modern synthetic organic chemistry. This presentation will introduce our recent effort towards this goal in developing chemoselective methods using alcohols and metal oxide photocatalysts. These methods enable borrowing-hydrogen-type reactions to proceed at around room temperature, including dehydrogenation of primary alcohols to aldehydes, hydrogenolysis of allylic alcohols, and N-alkylation of amines with alcohols.

**CBC SEMINAR ANNOUNCEMENT**

**Professor Hiroshi Naka**
Nagoya University

**Photocatalytic Conversion of Alcohols for Selective Chemical Synthesis**

Catalytic selective synthesis is one of the primary challenges in modern synthetic organic chemistry. This presentation will introduce our recent effort towards this goal in developing chemoselective methods using alcohols and metal oxide photocatalysts. These methods enable borrowing-hydrogen-type reactions to proceed at around room temperature, including dehydrogenation of primary alcohols to aldehydes, hydrogenolysis of allylic alcohols, and N-alkylation of amines with alcohols.

**Date:** 10th August 2017 (Thursday)
**Time:** 11:00am – 12:30pm
**Venue:** SPMS Research & Graduate Studies Office Conference Room
**Host:** Assoc Professor Naohiko Yoshikai