Hiroshi Naka (Nagoya University, Japan)

**Title:** (Photo)catalytic Conversion of Water and Alcohols for Selective Chemical Synthesis

**Abstract:** Facile chemical synthesis using simple molecules, such as water, hydrogen, carbon dioxide, and methanol, as reagents for the sustainable production of valuable chemicals is a long-standing challenge. In this talk, I will describe our recent effort towards this goal in developing thermal catalytic and photocatalytic methods using water and alcohols. We have demonstrated that a transfer hydration strategy proved to be effective in developing efficient methods for transition-metal-catalyzed hydration of alkynes and nitriles. I will also describe the selective conversion of alcohols and amines based on the use of heterogeneous photocatalysts as tools for organic synthesis.

More on Hiroshi Naka
http://noy.chem.nagoya-u.ac.jp/H_Naka-E/
http://www3.chem.nagoya-u.ac.jp/wordpress/?page_id=1074&lang=en