Reactivity of a silyl ligand on a transition metal is quite different from that of an alkyl ligand. We discovered unique catalytic activity of transition metal complexes with a silyl ligand, such as selective bond cleavage of C-CN bond in organonitriles, N-CN bond in cyanamides, O-CN bond in cyanates, C=O bond in amides, and C=S bond in thioamides. The details of these reactions and reaction mechanism will be discussed.

CBC SEMINAR ANNOUNCEMENT

Professor Hiroshi Nakazawa
Osaka City University

Unique Catalytic Activity Exhibited by Transition-metal Silyl Complexes

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Date: 19th August 2013 (Monday)
Time: 2:00pm – 3:00pm
Venue: NTU SPMS CBC Building Level 2, Conference Room
Host: Asst Professor Rei Kinjo