

化学科講演会のお知らせ

講演題目：Catalytic C–C Bond Formations Facilitated by Novel Catalyst Systems

講師：Dr. Uwe Schneider (The University of Edinburgh, UK)

日時：7月22日(月)

午後3時30分より

場所：南7号館7階セミナー室

Lecture summary: Based on our earlier studies on *ambiphilic* low-oxidation gallium catalysis, we have recently developed the first catalysis by a carbodiphosphorane, i.e., a *dibasic* low-oxidation carbon species. In contrast to strong metal–bases and other organobases, this carbon(0) compound was found to efficiently activate aliphatic nitriles and/or α,β -unsaturated amides in view of catalytic conjugate cyanoalkylation of these Michael acceptors. Similarly, following on our recent sodium–amide catalysis, we have uncovered an unusual C2–H bond activation of *N*-unprotected indoles catalyzed by a heterobimetallic carbonate. The seminar will focus on the catalytic (formal) C–H bond activations in the absence of precious metals; including discovery & development, scope, as well as insight into the mechanism.

問い合わせは秋山まで