

演題：**New Strategies in Stereoselective and Sustainable Synthesis**

講師：**Dr. Roly J. Armstrong**  
School of Natural and Environmental Sciences,  
Newcastle University, the U.K.



日時：2026年8月28日（金）16:30~18:00

場所：工学部フロンティア応用科学研究棟 2階 セミナー室

共催：北海道大学化学反応創成研究拠点 (WPI-ICReDD)

要旨：

Recent research in our group has focused on developing new strategies to address challenging problems in organic synthesis, spanning the stereoselective synthesis of axially chiral molecules and the development of more sustainable methods based on abundant Group 1 metals. The first part of this lecture will describe our work on C–N and N–N atropisomeric molecules, which possess chirality through restricted rotation about carbon–nitrogen or nitrogen–nitrogen bonds, respectively. The second part of the lecture will describe our recent efforts to develop more sustainable synthetic methods using sodium. This will include the preparation and reactivity of organosodium reagents under mechanochemical conditions and the application of sodium-mediated mechanochemistry to the degradation of fluoropolymers such as PTFE.

連絡先：工学研究院応用化学部門 久保田 浩司（内線：8127）

