

演 題 : **A New Class of Uniquely Effective and Practical Olefin Metathesis Catalysts**

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日 時 : 2026 年 10 月 15 日 (木) 16:30~18:00

場 所 : 工学部フロンティア応用科学研究棟 2 階
レクチャーホール

共 催 : 北海道大学化学反応創成研究拠点 (WPI-ICReDD)

要 旨 :

Cross-metathesis (is a catalytic transformation that, although widely used, is hampered by several shortcomings. Different types of CM require different catalyst classes, so that access to various complexes and screening is often needed. Some complexes are not readily accessible and several must be handled under strictly oxygen-free/anhydrous conditions. Equally critical, no existing catalyst efficiently promotes CM between two olefins each of which contains a strongly electron-withdrawing substituent, affording products that can be chemoselectively modified at either terminus. In this Lecture, we will be introduced to Mo cyclic alkylidene-aryloxide pyrrolides (CAAPs), complexes which are readily modifiable and can be utilized without the need for a glovebox. We will see how one member can promote stereocontrolled CM of a range of alkenes, including those that are electron-deficient. We will also discuss the way CAAP catalysts operate has several unusual features.

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