

# 理工学研究所

## 国際交流・公開研究セミナー

Prof. Masson (France, Institut de Chimie des Substances Naturelles, ICSN-CNRS) が来日される機会に、最近その応用が注目されている有機触媒について、基礎となるブレンステッド酸の性質と不斉合成化学に関してご講演をお願いしました。是非ご参集ください。

題 目 : Enantioselective Organocatalytic cycloadditions  
via Hydrogen Bond Catalysis'

講演者 : Prof. Masson  
(France, Institut de Chimie des Substances Naturelles  
-CNRS)

日 時 : 2016年 6月 17日(金) 16:30 - 18:00

場 所 : 中央大学後楽園キャンパス 6号館 4階 6425号室



### アブストラクト :

We study the catalytic behavior of Brønsted acids as well as alkali metal and alkaline earth metal complexes in diverse reactions allowing C-C, C-N and C-X bond formation. We are particularly interested in studying enantioselective processes giving access to molecular structures difficult to reach otherwise. Kinetic and mechanistic studies are implemented in order to increase our understanding of the reactivity of certain substrates in the presence of catalyst, and thus to improve the relevance of our results.

We are looking also into the use of heteroatoms such as I, S, N, P and B in catalysis. Our approach consists in the shape of chiral molecular entities with specific properties: Brønsted or Lewis acid / base, enabling novel applications in organocatalysis. In particular, other Brønsted acid catalysts and precursors hypervalent iodine-based are under development.

We work towards the development of methodologies using photoredox catalysis, which is an efficient tool to promote single-electron transfers from a photosensitizer upon exposure to light to substrate.

講演終了後、懇親会を予定しております。

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