



第214回触媒化学研究センター談話会

講演者：席 振峰 先生

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**演 題： Cooperative Effect in My Research:
Development of Organo-Bimetallic Reagents for
Organic Synthesis**

要 旨： Development of organometallic reagents has been one of the most important areas in synthetic chemistry, since practically useful and efficient reagents can remarkably accelerate the advancement of synthesis and related subjects. On the other hand, bimetallic or dinuclear complexes with the two metal centers kept in close proximity have been very attractive as catalysts and reagents, since cooperation effect of the two metal centers toward substrates is expected.

In 1999, we found that 1,4-dilithio-1,3-butadiene derivatives **1** reacted with aldehydes and ketones via unprecedented reaction patterns of the well-known monolithio reagents. We then realized that this type of dilithio compounds did show cooperation effect and could be used as model compounds for bimetallic reagents for organic synthesis. Since then, our 8-year study on the reaction chemistry of 1,4-dilithio-1,3-diene derivatives and analogous organo-bimetallic compounds has demonstrated that they are useful building blocks and can be applied for synthesis of a wide variety of cyclic and linear compounds of diversified structures.

**日 時： 2007年2月15日(木)
15:00 - 17:00**

**会 場： 北海道大学創成科学研究棟
5階 大会議室**

《連絡先》 触媒化学研究センター有機合成触媒分野

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