



第142回触媒化学研究センター談話会

講演者: Prof. Koop Lammertsma
(Free University, Amsterdam)

演題: Organophosphorus reagents
- design, properties, and applications

日時: 2003年1月31日(金)
15:30 - 17:00

会場: 北大ファカルティハウスエンレイソウ
第一会議室(2階)

要旨: Low-valent organophosphorus compounds and reagents are of significant interest due to the close relationship with their hydrocarbon analogues. This lecture focuses on the similarities and differences of phosphinidenes ($RP:$) and carbenes ($R_2C:$), and particularly on those of their transition metal complexes in terms of Fischer-type (electrophilic) and Schrock-type (nucleophilic) reagents. A broad spectrum of stable and of transient reagents will be highlighted. The electronic and structural properties of this young class of reagents will be addressed.
An important component in developing new reactive intermediates is their potential for applications. A significant part of this lecture will address the sometimes uniquely simple approach toward many novel organophosphorus compounds. Some are highly strained spirated small ring systems, while others are obtained by rearrangement and cycloadditions that are common to hydrocarbons. The diversity of electrophilic, nucleophilic, and potentially catalytic systems will be discussed.

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