



第270回触媒化学研究センター談話会

演題：**Exploring the interface between heterogeneous and homogeneous catalysis**

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日時：2010年2月19日（金） 13:30～14:30

場所：創成科学研究棟 5階 大会議室

共催：北海道大学グローバルCOE 触媒が先導する物質科学のイノベーション
【後援】日本学術振興会 (JSPS)

要旨：

Recent advances in structural characterization have prompted many students of catalysis to argue that the distinctions between heterogeneous and homogeneous catalysts are becoming increasingly blurred. The situation has further prompted certain investigators to enunciate the following statements, each of which will be adumbrated during the course of the talk:

- 1- The scope for introducing multifunctional catalysis is greater with heterogeneous than with homogeneous catalysts.
- 2- The nature of active sites in homogeneous and heterogeneous catalysts is very different.
- 3- Certain chemical transformations can be effected efficiently only with heterogeneous catalysts.
- 4- Many homogeneous catalysts may be immobilized at the surfaces of, or intercalated within, solids and often yield superior performance.
- 5- Spatially isolated and readily accessible single-sites on nanoporous supports unite the advantages of heterogeneous and homogeneous catalysts.

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