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 introduction 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.

連絡先 北海道大学触媒化学研究センター 朝倉清高 教授
Tel 011-706-9113 email askr@cat.hokudai.ac.jp
東京大学工学系研究科 堂免一成 教授
Tel 03-5841-1148 email domen@chemsys.t.u-tokyo.ac.jp