

第376回触媒科学研究所コロキウム

共催 フロンティア化学教育研究センター

PURDUE UNIVERSITY DEPARTMENT OF CHEMISTRY: OPPORTUNITIES FOR RESEARCH

Prof. Jeffrey Roberts

(Frederick L. Hovde Dean and Professor of Chemistry Purdue University USA)

2015年10月16日(金) 14:30—16:00

創成科学研究棟4階セミナー室A

<http://www.cat.hokudai.ac.jp/access.html>



The Department of Chemistry at Purdue University is among the most distinguished chemistry departments at any university, with a storied tradition of research in frontier areas of virtually every area of modern chemistry. The department is one of the largest in the United States, with over 50 faculty members and approximately 300 students. The department boasts two Nobel Prize winners: Herbert C. Brown and Ei-ichi Negishi. Many other faculty members have achieved international recognition for their scholarly achievements. This presentation will highlight some of the department's signature research areas, with an emphasis on two areas: homogeneous and heterogeneous catalysis, and chemical instrumentation. Some of this research is done under the auspices of the Negishi Brown Institute for Catalysis, which supports multidisciplinary, collaborative work in molecular catalysis. Much of the department's research is conducted in collaboration with researchers at other academic units at Purdue, especially the School of Chemical Engineering. Faculty in the Department of Chemistry are engaged in collaborative work across the globe, with significant collaborative activity involving institutions in Asia, Europe, South America, and the Middle East. Opportunities and avenues for launching new collaborative ventures will be described.

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Prof. Jeffrey Roberts is Professor of Chemistry and Frederick L. Hovde Dean of Science at Purdue University. Before joining Purdue, he was on the faculty of the University of Minnesota, where he served as Head of Chemistry from 2005 to 2009. Prof. Roberts has authored or co-authored over 100 peer-reviewed papers, as well as several book chapters and monographs. His research interests focus on aerosol surface chemistry, with emphases on heterogeneous processing at atmospheric aerosol particles and surface modification of aerosol nanoparticles for materials applications.