第183回触媒化学研究センター談話会

演　題：Methane Hydrate Research at the National Energy Technology Laboratory
（メタンハイドレートと光触媒反応の研究）

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日　時：２００５年１月２６日（水）
１３：３０―１５：００

会　場：北海道大学創成科学研究棟
４階　セミナー室　２１５号室

要　旨：The National Energy Technology Laboratory (NETL), one of the Department of Energy's (DOE) National Laboratories, has bee investigating the production and conversion of methane for over 20 years. During the course of this endeavor, the focus has switched from the catalytic conversion of methane to liquid transportation fuels to ensuring a domestic (United States) source of natural gas (methane) that will meet the demands of the American consumer through the 21st century. In order to achieve this goal, NETL is focused on producing methane from the vast methane hydrate deposits that are present along the U.S. coastal areas and in the permafrost in Alaska. The talk will cover some of the previous research conducted at NETL on catalytic methods for the conversion of methane into liquid transportation fuels. These methods include a two-stage process known as oxyhydrochlorination and the photocatalytic conversion of methane to methanol and hydrogen. The second part of the talk will discuss the DOE National Methane Hydrate Program and the specific research that is under investigation at NETL. A detailed account of NETL's research program and its drivers will be discussed, along with some recent research findings.

《連絡先》北大触媒化学研究センター　触媒設計化学分野
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