



# 第191回触媒化学研究センター談話会

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**演 題 :** Visible Light Photocatalysis - from  
Synthesis to Nitrogen Fixation and  
Self Cleaning Surfaces

**講演者 :** Professor Horst KISCH  
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Erlangen-Nuernberg, Germany)

**日 時 :** 2005年9月6日(火)  
15:30 - 17:30

**会 場 :** 北海道大学創成科学研究棟  
4階 セミナー室 04-215号室

**要 旨 :** In the lecture a review shall be given on the use of semiconductor photocatalysis in the fields of organic synthesis, nitrogen fixation and self cleaning surfaces. The first part deals with addition reactions of 1,2-diazenes or imines to olefins photocatalyzed by supported and unsupported cadmium sulfide powders. The second part reports on a nanostructured iron titanate thin film capable of fixing dinitrogen into ammonia and nitrate. In the third part attempts are discussed how to modify titania for visible light photodegradation reactions.

《連絡先》 北大触媒化学研究センター 触媒反応化学分野

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