



# 2013年度 物質生命理工学科コロキウム

上智大学 理工学部 物質生命理工学科 主催  
理工学部・理工学振興会 共催

## “Determination of the Photocatalytic Deposition Velocity”

**Dr. Ralf Dillert** (本学客員教授)

*Leibniz University Hannover, Germany*

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場所：8号館 307号室



The potential impact of proposed measures for air pollution control is commonly simulated using atmospheric dispersion models. The mathematical simulation how air pollutants disperse in the ambient atmosphere is performed with computer programs that solve the mathematical equations which describe the pollutant transport in the gas phase and the uptake by surfaces. Recently, atmospheric dispersion models, e. g., ENVI-met, MISKAM, and LASAT, have been used to predict the possible effect of photocatalytically active surfaces on the air pollution in urban areas. These simulations use the photocatalytic deposition velocity as an input value. However, no generally accepted experimental method for the determination of the photocatalytic deposition velocity is available.

Here a method to determine the photocatalytic deposition velocity is proposed which is based on ISO 22179-1 *et seqq.* specifying test methods for the determination of the air-purification performance of materials that contain a photocatalyst or have photocatalytic films on the surface.

学生の聴講歓迎・申込不要・参加無料

問い合わせ：堀越 智 horikosi [at] sophia.ac.jp