

# Karl Friedrich Bonhoeffer Lecture

Donnerstag, den 9.10.2008 -17:00 Uhr  
Manfred-Eigen-Hörsaal  
Max-Planck-Institut  
für biophysikalische Chemie

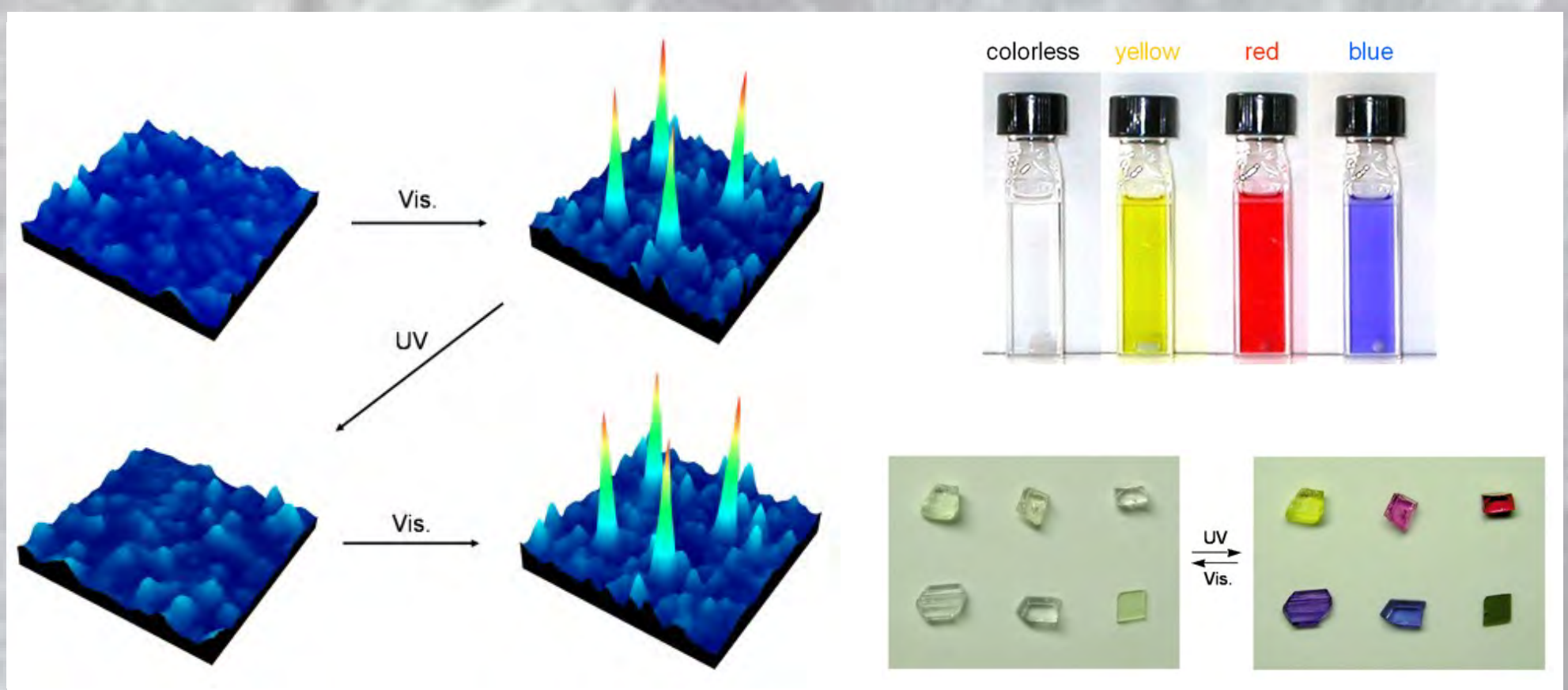
Am Fassberg 11, 37077 Göttingen

**Professor Masahiro Irie**

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## "Photochromic Diarylethene Molecules and Crystals"



Diarylethene derivatives exhibit excellent photochromic performance, such as thermal irreversibility, fatigue resistance, rapid response, high photoreactivity and single crystalline photochromism. Some of diarylethene single crystals were found to change their surface morphology as well as bulk shape reversibly upon alternate irradiation with UV and visible light. Application of the diarylethene photochromism to single-molecule optical memory was also demonstrated.