

## 第 86 回化学コロキウム/IAGEPC コロキウムのご案内

日時：平成 18 年 8 月 25 日(金) 午後 5 : 0 0 ~ 7 : 0 0

場所：8号館 302号室

演者：C.-Y. David Lu 教授 (National Taiwan Univ., Taiwan)

演題：Viscosity of the Smectic Liquid Crystals and the Defect Line Motions

Abstract: In this talk, we will discuss the possible origin of the viscosity of the smectic liquid crystals. We suggest that the numerous line defects in the smectic liquid crystals are responsible for the high viscosity and the shear thinning behavior. The defect motion under the flow is very important for modeling the flowing smectics. To further analyze the defect line motion, we use a model suitable for the smectics formed by the block-copolymer to analyze the defect motion. We find that the defect motion in smectics obeys the rule different from the one of the defects in crystals.

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