



ESISM セミナーのご案内

日 時 : 2015 年 7 月 2 日 (木) 13:30~15:00

場 所 : 物理系校舎 5 階材料工学セミナー室 (527 室)

講演者 : **Prof. Gunther Eggeler**

Intstitute for Materials • Faculty of Mechanical Engineering,
RUHR-University
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講演題目 : "**In-situ SEM micro shear testing of Au single crystals**"

Abstract :

Shear testing is an attractive test technique in mechanical metallurgy. It allows to directly activate specific crystallographic slip systems and to study basic deformation phenomena. From a mechanical point of view it represents a simple multiaxial test technique which provides benchmark data for reference stress procedures. The presentation will provide some background on shear testing and will then show how a in-situ SEM shear technique can be developed. Preliminary results on gold single crystals loaded in a $\langle 110 \rangle \{ 111 \}$ shear system are presented. The microscopic deformation events are documented and discuss. Directions for further work are pointed out.

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