

ANNOUNCEMENT WS 2016/2017

ELEMENTS OF MICROSTRUCTURE (EOM)

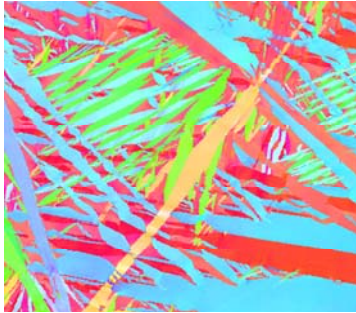
Location and Time:

ICAMS CIP-Pool, Wednesday 13:30-15:30

Prof. Dr. Gunther Eggeler (GE)

Dr. Hongcai Wang (HW)

**Institut für Werkstoffe / Lehrstuhl Werkstoffwissenschaft
Ruhr-Universität Bochum**



This course introduces the basic elements which are needed to understand the formation and evolution of microstructures of engineering materials. It is targeted towards students of the Master's Course "Materials Science and Simulation". It is open to all other students, postdocs and guests who are interested in these basic concepts. Lectures and course materials are in English. Please register for the course in the RUB blackboard (course no. 440402) to receive the latest information or contact the course assistant, **Dr. Hongcai Wang** (hongcai.wang@rub.de).

Schedule

19. October:	Crystals and glasses
26. October:	Point defects and dislocations
9. November:	Exercise I
16. November:	Interfaces
23. November:	Diffusion
30. November:	Thermodynamic Concepts
7. December:	Phases, Compounds and Phase Diagrams
14. December:	Exercise II
11. January:	Solidification
18. January:	Precipitation from oversaturated solid solutions
25. January:	Order/disorder and martensitic transformations
1. February:	Exercise III