



What can we learn from diffraction on polycrystal behavior?

Workshop Labex DAMAS, 18 November, 2015, LEM3-Metz, Salle Klepaczko

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The topic includes X-ray, Synchrotron, Neutron, EBSD, and TKD measurement techniques, applied to polycrystals.

Program:

9:30 Reception of participants

Session 1: Review lectures (Chairman: Alain Jacques)

10:00 Tamas Ungar (Hungary): Grain-to-grain polycrystal measurements by synchrotron and neutron

10:30 Werner Skrotzki (Germany): Different ways of measuring texture gradients by diffraction

11:00 Coffee break

Session 2: Application of EBSD on material behavior (Chairman: Stéphane Berbenni)

11:30 Laszlo Toth (France): EBSD based GND densities in severe plastic deformed metals

12:00 Francis Wagner (France): Deformation heterogeneity analysis by EBSD in polycrystals

12:30 Lunch together at CROUS, in private space, for lecturers and chair persons

Session 3: Innovative experimental techniques and their modeling (Chairwoman: Yudong Zhang)

14:00 Gyula Zilahi (Hungary): Twin identification in synchrotron polycrystal measurements

14:30 Emmanuel Bouzy (France): Transmission Kikuchi Diffraction (TKD) applied to polycrystals

15:00 Alain Jacques (France): From modeling of plasticity to diffraction peaks simulations

15:30 Coffee break

Session 4: Novel ways of extraction of experimental data from diffraction (Chairman: Yan Beygelzimer):

16:00 Gabor Ribarik (Hungary): Evaluation of diffraction patterns for microstructural parameters using a Monte-Carlo algorithm

16:30 Funderberger-Beausir (France): Presentation of the new JTEX and ATOM softwares

17:00 Round table discussion

18:00 End