

Journée scientifique WP5 du Labex DAMAS,

le Mercredi 24 février 2016 (Metz, Salle Klepaczko, LEM3)

Multiscale Modelling

30 minutes max. for each talk scheduled in the WP5 meeting including discussion

Les talks seront en anglais ou en français.

En jaune: title to confirm (présence déjà confirmée)

En bleu: Talk to confirm

9H00-9H30: Accueil

9h30-10h00 : Task 1

9h30-10h00: J-M. Raulot: Atomistic simulations (Ti alloys and interaction solutes / GB)

10h00-11h00: Task 2

10h00-10H30: H. Zahrouni: FE2 method for thin structures (shared with WP4)

10h30-11h00: E.M. Daya: Analyse à deux échelles des vibrations des structures sandwich

metal/polymère à forme repetitive (WP5 shared with WP1)

11h00-12h00 Task 3

11h00-11h30: C. Fressengeas and V. Taupin: Field fracture mechanics and applications

11h30-12h00: K.S. Djaka (PhD student): A numerical FFT approach to solve dislocation density transport / annihilation and mechanical fields with heterogeneous elasticity

12h00-14h00: Lunch (CROUS RU Metz Saulcy)

14h00-14h30 Task 3 (cont'd)

14h00-14h30: A. Villani (post doc): FFT technique in crystalline elasto- plasticity and conjugate gradient techniques

14h30-Task 4

14H30-15H00: S. Berbenni: Micromechanical and homogenization models for primary and double twinning in AZ31 Mg alloys.

15h00-15h30: S. Berbenni, T. Richeton: Incompatibility stresses calculations due to grain boundaries in light weighing Ti alpha/beta alloys (shared with WP2: L. Germain/N. Gey) (to confirm if presented in WP2 OR WP5)

15h00- Task 5

15h00-15h30: M. Zaloznik : Mesoscopic modelling in solidification (Shared with WP2)

15H30-16H30 : Pause - Round table discussion and discussion around new projects

16h30 : End