

TimeMan 2020 @ Zoom



Programme

Wednesday 6 January 2021 (Chair P. Carrez)

14:00-14:15: Patrick Cordier (ULille) "Amorphisation and grain boundary sliding – context and summary of previous episodes"

14:15-15:45: Hosni Idrissi (UCLouvain & EMAT) "Grain boundary sliding and amorphization mechanisms: *ex situ* and *in situ* TEM investigation"

14:45-15:05: Nicolas Gauquelin (EMAT) " EELS study of grain boundaries and shear bands in olivine"

15:05-15:25: Andrey Orekhov (EMAT) "*In situ* tensile nanomechanical testing of amorphous olivine obtained by pulsed laser deposition"

15:25-15:45: Paul Baral (UCLouvain) "Nanoindentation testing of amorphous olivine "

15:45-16:05: Break

16:05-16:25: Michael Coulombier (UCLouvain) "Lab-on-Chip applied to amorphous olivine "

16:25-16:45: Valentin Delbecq (ULille) "Numerical study of mechanical properties of Mg₂SiO₄ glasses"

16:45-17:05: Francis Delannay (UCLouvain) " The role of grain boundary curvature and grain boundary mobility in the accommodation of grain boundary sliding by diffusion "

17:05-17:35: Anne Davaille (Paris Saclay) *Cancelled*

Thursday 7 January 2021 (Chair H. Idrissi)

9:00-9:30: Introducing Jean Furstoss, Ihtasham Ul Haq, Alex Pip and Timmo Weidner.

9:30-9:50: Pierre Hirel (ULille) "Why do compact grain boundaries prevail in oxides"

9:50-10:10: Marie Landeiro dos Reis (ULille) "Interaction between edge dislocation and vacancies in magnesium oxide: Atomistic simulations versus elasticity theory"

10:10-10:30: Sami Mahmoud (ULille) "Overcoming the timescale limitation in studying defects diffusion: preliminary results for the example of vacancies in forsterite"

10:30-10:50: Break

10:50-11:10: Karine Gouriet (ULille) "Ultimate mechanical properties of enstatite"

11:10-11:30: Alexandre Mussi (ULille) "4D Electron Tomography of Dislocation: Application to Electron Irradiation"

11:30-12:00: Hadrien Rattiez (UCLouvain) "Influence of multi-physical couplings on the mechanical behavior of faults"