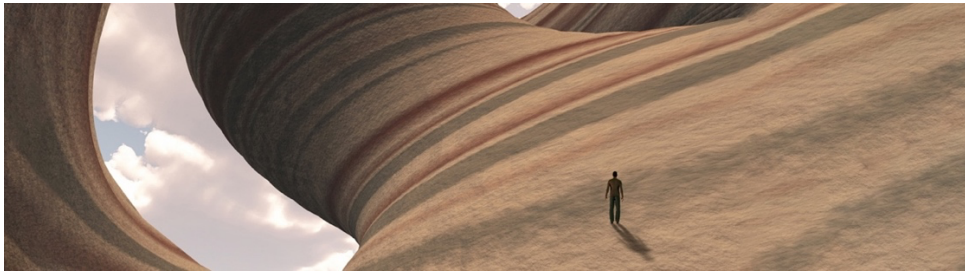


TimeMan 2024



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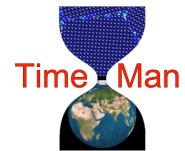


Groenenborger campus, Groenenborgerlaan 171, Antwerp

Lecture room U.024

Wednesday 11 September 2024

13:00	Welcome with sandwiches		Chair: S. Demouchy
13:45-14:00	P. Cordier	Welcome and introduction	
14:00-14:30	R. Dohmen	Silicate thin films produced by pulsed laser deposition: Properties and applications	
14:30-14:45	P. Cordier	Stress-induced amorphization	
14:45-15:15	P. Carrez	Effect of iron on ultimate mechanical properties of olivine	
15:15-15:45	J. Furstoss	Stress induced amorphization is a transformation induced plasticity	
15:45-16:15	A. Kashiwar	In situ TEM studies of the microscopic mechanisms of crystallization in olivine	
16:15-16:45	Break		Chair: H. Rattez
16:45-17:15	S. Demouchy	Ductile deformation of natural olivine: Insights from Hawaii	
17:15-17:45	T. Weidner	Mixed Climb in Minerals	
17:45-18:15	C. Traisnel	First-principles study of charged point defects properties in forsterite	
18:15-18:45	L. Delannay	Heterogeneity of microscopic strain and grain rotation in the rheology of grain boundary sliding accommodated by diffusion	
19:30	Dinner		



Thursday 12 September 2024

Chair: N. Gauquelin

9:15-10:00	E. Tochigi	Atomic scale observations of notch tip under tensile stress
10:00-10:30	H. Idrissi	Electron beam induced viscoplasticity in Al/Al ₂ O ₃ /Al tri-layer system
10:30-11:00	A. Orekhov	Advanced denoising and precise sample shape tracking in PTP data processing

11:00-11:30 Break

Chair: A. Béch 

11:30-12:00	T. Pardoen	Last progress about on chip test methods
12:00-12:30	M. Coulombier	Towards HTOC in situ TEM
12:30-13:00	M.S. Colla	New developments of the residual stress actuated on-chip testing method: coupled effects and strain engineering

13:00 Lunch

Chair: P. Carrez

14:00-14:30	P. Hirel	Plasticity of SrTiO ₃ perovskite: what simulations can tell us
14:30-15:00	I. Ul Haq	Nanomechanical tensile testing of talc: dislocation vs. amorphization
15:00-15:30	G. Tiph�ne	In-situ HT nanoindentation to quantify recovery kinetics in pure metals

15:30-16:00 Break

Chair: N. Schryvers

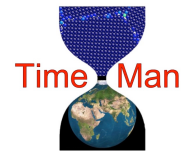
16:00-16:30	O. Castelneau	Nonlinear homogenization of polycrystalline aggregates
16:30-17:00	G. Materzanini	Role of the electron irradiation on the plasticity of amorphous Al ₂ O ₃ : atomistic simulations meet experiments
17:00-17:15	P. Cordier	Closing words

19:00-22:00 Dinner Faculty Club, Hof van Liere, Prinsstraat 13b, 2000 Antwerp

Friday 13 September 2024 - Morning

10:00-12:00 Lab tour: EMAT with intro on Nanolab Centre of Excellence and Valorisation @ EMAT

12:00 Closing with sandwiches



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