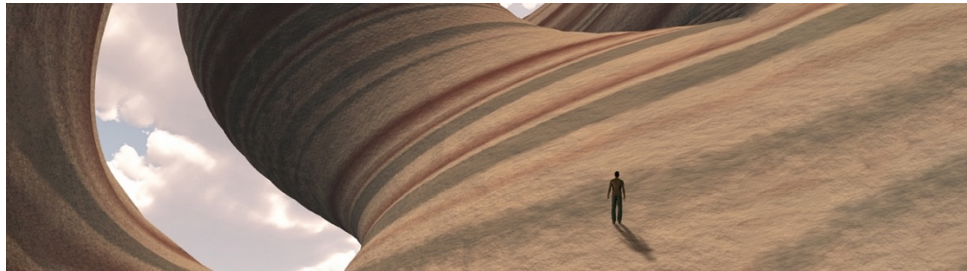


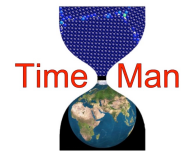
## TimeMan 2023



Institut Michel-Eugène CHEVREUL – Amphithéâtre Michel Delhayé

**Wednesday 6 September 2023**

10:30		<i>Welcome</i>		Chair: P. Carrez
10:45-11:05	P. Cordier	Dislocation climb, where do we stand?		
11:15-11:35	A. Mussi	Mixed climb in quartz seen from electron tomography		
11:45-12:05	T. Weidner	Applications of dislocation electron tomography to continuum mechanics		
12:15-12:35	J. Amodeo	El-Numodis, a new tool to model dislocation versus surface interactions: application to nanomechanics		
13:00		Lunch	Restaurant Universitaire C. Barrois	
				Chair: G. Materzanini
14:30-14:50	G.-M. Rignanese	Molecular dynamics simulations of amorphous alumina under strain: from classical to machine-learning interatomic potentials		
15:00-15:20	P. Carrez	Rheology of amorphous olivine		
16:00-16:20	J. Lam	Machine-learning model for interactions in $Mg_2SiO_4$ : Preliminary results		
15:30-15:50	T. Albaret	Size effect in the plastic deformation of small ceria nanocubes from classical atomistic simulations		
16:30-17:15		Break		
				Chair: L. Dupuy
17:15-17:35	A. Goryaeva	Compact A15 Frank-Kasper nano-phases at the origin of dislocation loops in face-centred cubic metals		
17:45-18:05	P. Ponte Castaneda	Nonlinear homogenization and applications to particle-reinforced systems		
18:15-18:35	O. Castelnau	<i>Canceled</i>		
19:30-22:30		Dinner	"Beers & Co"	



### Thursday 7 September 2023

Chair: J.P. Raskin

9:00-9:20	P. Baral	Rheology of amorphous olivine thin films characterized by relaxation and nanoindentation
9:30-9:50	M. Coulombier	Rheology of amorphous olivine thin films characterized by the lab-on-chip technique
10:00-10:20	H. Idrissi	Rheology of amorphous olivine under electron irradiation

10:30-11:15 Break

Chair: J.L. Loubet

11:15-11:35	N. Gauquelin	Electron irradiation damage in amorphous olivine: an EELS study
11:45-12:05	G. Kermouche	Time - temperature - electron dose equivalence and viscoplastic deformation of silicate glasses through micropillar relaxation experiments
12:15-12:35	G. Tiphéne	Probing physical changes in thin-film metallic glasses using High-Temperature Scanning Indentation
12:45-13:00	M. Coulombier	Heated lab-on-chip: prospective

13:00 Lunch Restaurant Universitaire C. Barrois

Chair: S. Demouchy

14:30-14:50	X. Fang	A strategy to discover more room-temperature ductile perovskite oxides: beyond SrTiO <sub>3</sub> and KNbO <sub>3</sub>
15:00-15:20	P. Hirel	<110> edge dislocations in SrTiO <sub>3</sub> perovskites: glide vs climb, charged vs neutral
15:30-15:50	F. Delannay	The strain energy distribution likely to lead to grain boundary amorphization in deformation by GBS accommodated by diffusion
16:00-16:20	J. Furstoss	Structures and energies of twist grain boundaries in forsterite

16:30-17:15 Break

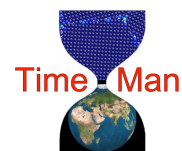
Chair: N. Schryvers

17:15-17:35	I. Ul Hacq	<i>In situ</i> study of grain boundary sliding and amorphization in olivine
17:45-18:05	K. Gouriet	Effect of iron on ultimate properties of olivine

19:30-22:30 Dinner "La Table"

### Friday 8 September 2023 - Morning

Lab tour: Institut Chevreul: Electron microscopy, X-Ray, NMR



## Participants

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