

# Liquid to solid foams workshop 18/12/2023

9h-17h30, MSC lab, Paris - amphitheatre Pierre-Gilles de Gennes

09:00	Welcome	
09:30	Introduction	
09:35	<b>Samuel Forest</b> (Centre des matériaux)	<b>Mechanical properties of metallic foams</b>
10:15	Adrien Bussonnière (MSC)	Rheology of an elementary liquid foam in foam films
10:28	Louise Le Barbenchon (I2M)	From micro to nanocellular polymeric foams, what effect on the mechanical properties?
10:41	Coffee break	
11:15	Valentin Leroy (MSC)	Acoustics of solid and liquid foams
11:28	Sylvain Meille (MATEIS)	Mechanical behavior of hard foams: the case of foamed gypsum
11:41	Alesya Mikhailovskaya (ICMPE)	Colloidal gelation in the confinements of a foam structure
11:54	Florent Dalas (Holcim)	Airium, an insulating cement-based foam for various building application
12:15	Lunch	
13:30	<b>Olivier Pitois</b> (Navier)	<b>From model foam to materials</b>
14:10	Bastien Isabella (ILM)	Freezing of gas bubbles in a liquid
14:23	Imene Ben Djemaa (ICS)	Generation of alginate-based hydrogel foams using CO2 simultaneously for foaming and gelation
14:36	Krishan Bumma (IJLRDA)	Flows in a freezing soap foam
14:49	Guillaume Cotte-Carluer (ICS)	Solidification of polyurethane foams via ultraviolet external stimuli
15:05	Coffee break	
15:35	<b>Aurélie Hourlier-Fargette</b> (ICS)	<b>Foams and intruders: from liquid systems to polymeric architected materials</b>
16:15	Marie Le Merrer (ILM)	Setting of plaster foams: reaction kinetics vs arrest of foam aging
16:28	Raphael Poryles (GEPEA)	Stabilisation d'une mousse d'émulsion par traitement micro-ondes
16:41	Alice Requier (LPS Orsay)	Foam coarsening in a viscoelastic medium
16:54	Virgile Thiévenaz (PMMH)	The shape of air bubbles trapped in ice
17:10	Conclusion	

Foam Mechanics

Foam Solidification

Foam Structuration

GDR SoPhy

SOFT PHYSICS FOR HARD MATERIALS