



GFR 2024 at Amphi Gastaut, Jardin du Pharo, Marseille

Wednesday 23th

Thursday 24th

Friday 25th

9:00	Sham Tili (IBDM) Role of mechanical constraints on biological tissue reorganization
9:45	Laura Casanellas (Univ. Montpellier) Microfluidic platform for biomimetic tissue design and multiscale rheological characterization
	Pierre Joseph (LAAS-CNRS) Probing 3D tissue rheology with a high-throughput microfluidic aspiration pipette
	Marie Pochitaloff (TU Dresden/University of California) Mechanics of the cellular microenvironment as probed by cells in vivo
10:30	
11:00	T��rence Desclaux (IUSTI) Penetration of a granular medium by a tip-growing tube
	Romain Mari (LiPhy) Rheology of dense suspensions under shear rotation
	Chong-Wei Hong (IUSTI) Study of a stationary bedload transport by a laminar shearing flow across viscous to inertial regime
	Jesus Fernandez (ILM) Memory and ageing effects in flows of dense colloidal suspensions
	Bastien Lebreux (LiPhy) Rheology and structural organization of aqueous biphasic sytems
	Hassoun Ishak Powder Rheology, flowability, and Cohesion Characterization with Granutools Instruments
12:30	Florent J��go Thermo Fisher Scientific presentation
	Lunch Break & Poster Session
2:30	Oryaelle Chevrel (LMV) In-situ viscosity measurements of active lava
3:15	Andr��a Tommasi (G��osciences Montp.) From microstructural heterogeneity to macro- and meso-scale shear zones: a recipe for strain localization on Earth
	Jean-Arthur Olive (Geology ENS) Probing the frictional-viscous properties of collapsing mountains
	V��ronique Dansereau (ISTerre Grenoble) On modelling a solid, fluid, granular and cold geomaterial: sea ice
4:00	
4:30	Kamal Tripathi (INP Grenoble) Structural and mechanical analysis of collagen gels
	Florian Schott (Lund University) Stress redistribution in flowing liquid foam
	Leandro Jacomine (Inst. Charles Sadron) General stress decomposition as a powerful tool to characterize complex interfaces
	Virgile Thi��venaz (PMMH) Inhomogeneous capillary flows of granular suspensions
	Georges Gauthier (FAST) Rheology of particle laden film
6:00	
	AG GFR & Poster session
7:00	Cocktail Dinner (Salle des Voutes) & Poster session

Olivier Pouliquen (IUSTI) How a pinch of polymer in a granular medium dramatically modifies the rheology
Ana��s Abramian (Inst. d'Alembert) Formation of fractures in cohesive granular media
Fanshuo Ma (Inst. d'Alembert) Cohesive granular flow down an inclined plane: discrete and continuum numerical simulations
Pierre Philippe (INRAe, Aix en Provence) Adhesive strength of an artificial cemented granular soil with application to hydraulic failure.
Florence Bertails-Descoubes (INRIA Grenoble) Investigating the compaction of random open ring stacks through real and numerical experiments
Karim Ayoubi (IUSTI) Reconfiguration of drag of a flexible ribbon sedimenting in a viscous fluid
Alexy Brunel (Inst. Physique de Rennes) "Gelled waters" for swallowing disorders: rheological, tribological and chemical characterizations related to sensory perception
R��mi Lecanu (Universit�� Paris-Saclay, INRAE) Rh��ologie, tribologie et perception sensorielle de boissons ��paissies
Laurent Chaunier (INRAe Nantes) Characterization and 2D-Modelling of the viscous sintering between superimposed filaments based on corn protein
Tom Purcell (INRAe Nantes) Viscosit�� de m��langes de prot��ines de pois et bl�� et de leurs extrud��s en milieu humide
Frederic Fraisse Netzsch presentation
Lunch Break & Poster Session
D��cil Idaira Yanez Martin (INP Grenoble) Micro-rheology of soluble and adherent small intestinal mucus
Rohan Vernekar (LRP Grenoble) Micro-rheology along motile intestinal villi
Alice Briole (CiNaM) How does mucus rheology affect mucociliary clearance ?
Antoine Weber (LMA-CNRS-CENTURI) Microstructure of red blood cell suspensions: effect of the cell deformability
Nicolas Cyan (University of Geneva) Modelling the rheology of an in vitro blood vessel under pressure
Florent Gimbert (IGE Grenoble) On the complexity of granular dynamics during river floods: a seismic view in both the laboratory and the field
Rigotti Aur��lien (ISTerre) Investigating the relation between elastic and relaxation properties of dry, frictional granular media
Lars Blatny (ETH Z��rich) Continuum modeling of cohesive and compressible granular flows with elasto-viscoplasticity
Johan Gaume (ETH Z��rich) Dynamics of cohesive granular flows over erodible beds: new insights from continuum and discrete particle-based models
S��bastien Castel (ENS de Lyon) Ultrasound-induced softening of nuclear sludges
Guillaume Chambon (Univ. Grenoble) Viscoplastic free-surface flows over topographies

Maurice Couette Price (TBA)
Vincent Bertin (PoF Twente) Viscoelastic wetting: normal stress effects
Lea Cailly-Brandstater (CEMEF) How viscoelasticity controls instabilities and pattern formation in a confined flow?
Jorge Peixinho (PIMM) Morphology of sheared multilayer films of polymer melts
PhD Price (TBA)
Alexis Bougouin (IUSTI) Shear-thickening suspensions in pipes: a frictional soliton controls the flow resistance
Matthieu Roch�� (MSC) Granular aqueous suspensions with controlled interparticular friction and adhesion
Serigne Lo (InPhyNi) Role of inter-particles forces in the rheology of non-Brownian suspensions
Catalin Vlad (LadhyX) Flow and entanglement of dense suspensions of soft fibers
Ladisl��s Wierzechalek (FAST) Rheology of a granular medium mixed with flexible fibers
Lunch Break & Poster Session

- S1

Rheology of biological fluids and tissues
Chair: S. Gsell, S. Tili
- S2

Granular media and dense suspensions
Chair: F. M. Rocha, L. Bergougroux, Y. Forterre
- S3

Rheology of geo-physical fluids
Chair: A. Bougouin, J. A. Olive, G. Chambon
- S4

Gels, polymers, foams and rheology at/with interfaces
Chair: L. Domino, H. Lhuissier
- S5

Food rheology
Chair: M. Ramaioli, L. Ramos.

Organizing Committees:

B. Metzger

O. Pouliquen

L. Bergougroux,

F. M. da Rocha,

L. Tiran

(IUSTI Marseille),

S. Tili (IBDM Marseille), S. Gsell (IRPHE Marseille),

R. Castellani (Mines Paris).

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Galla Dinner at 8 pm
Les Arcenaulx
25 Cr Honor   d'Estienne d'Orves
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