PhD Program, IMI
Scientific events 2024-2025

Month	Day	Event		Location	Host	Information / Registration
		Name	Type / Title / website			
November	**5**	**M. Yonggang Huang** *Depts. of Civil and Environmental Eng., Mechanical Eng., & Materials Sci. and Eng., Northwestern University, Evanston, IL, USA*	**1 seminar** *SHAPE PROGRAMMABLE THREE-DIMENSIONAL MESOSTRUCTURES AND FUNCTIONAL DEVICES*	**LMA** 11.00 Amphi 4 impasse Nikola Tesla 13013 Marseille	**LMA**	Info : lombard@lma.cnrs-mrs.fr
November	**5** **6**	**INCA Colloquium** **Combustion - SAFRAN**	**Colloquium** **Inscription before October 4th**	MUCEM		https://amu.azur-colloque.fr/inscription/fr/313/inscription For administrative purposes, we will need to collect some billing information from you. Please note that the colloquium is free of charge and you will receive an invoice for €0. On page 3, in the "Supplements" section, please remember to indicate the days you will be attending and whether be attending the dinner on Tuesday evening. **By checking the boxes !** **Registration is open until Friday, October 4th.**
November	**7**	**Materials engineering 2023 Forum**	**Forum** Polytech Marseille's Matériauxengineering students (Proving Forum Association) are organizing a day devoted to the professions practiced by graduates. These are highly varied, covering a wide range of industrial sectors: aerospace, automotive, nuclear/oil energy, plastics, chemicals, metallurgy, glass and ceramics, construction, microelectronics, etc. Over 300 materials engineers have been trained at Polytech Marseille. This event aims to guide students in the course of their studies in their career plans and to encourage contacts with companies.	CHATEAU GOMBERT CAMPUS		https://polytech.univ-amu.fr/fr/1er-forum-mecanique-energetiquede 9 am to 12 pm: Careers forum with graduates 1.30 pm to 5 pm: Discussions with partner companies
Nov / December	**nov 18** **and** **nov 25**	**M. Kerry HOURIGAN** *Fluids Laboratory for Aeronautical and Industrial Research (FLAIR) Department of Mechanicaland Aerospace Engineering Monash University, Melbourne, Australie*	**2 Seminars :** **"Effect of Surface Roughness on the Motion and Wakes of Rolling Spheres"**	IRPHE 2 SEMINARS SCHEDULED AT 11:00 SEMINAR ROOM	**IRPHE**	The 'Rolling Paradox' states that, according to lubrication theory, a smooth sphere cannot roll on a smooth surface due to infinite fluid resistance at the contact point. A number of possible mechanisms have been proposed to resolve this paradox, including cavitation. In this seminar, we revisit whether surface roughness could be a preferable mechanism. Via combined experiments and computations, it is found that surface roughness could provide both a contact for non-slip as well as an effective gap to remove the singularity in resistance, thus resolving the 'Rolling Paradox'. Intriguingly, a moderately rough sphere exhibits lower drag and higher rolling velocities than either a well-polished sphere or a substantially rough sphere.
			"Flow-Induced Vibrations: Elliptical Cylinders and the Hyper Branch Response"			Flow-induced vibration (FIV) of bluff bodies has traditionally represented a problem that leads to fatigue and structural damage. Much research has been devoted to mitigating its effects. More recently, however, FIV has been considered as a source of renewable energy harvesting. In this seminar, we consider first the generic 2D geometry, the circular cylinder, and its FIV response. The questions of whether an afterbody is required for FIV and whether other geometries may display vibration amplitudes that are not self-limiting to one diameter, as in the case of the circular cylinder. In particular, thin ellipses are considered and found to have a Hyper Branch amplitude response which an order of magnitude higher in both amplitude and power generated compared to that of the circular cylinder.
November	**29**	**IMI** **Journée Transition Energétique**		LMA 8.30 Amphi	**IMI**	Program (Could be modified) : https://amubox.univ-amu.fr/s/qkDo6Wtry77Rb3A Participation : https://evento.renater.fr/survey/imi-29-novembre-journee-dediee-a-la-transition-energetique-19u1k2yk
December	**16**	**ITER - Special visit IMI** **december, 16th 2024** *Registrations closed*		ITER Saint Paul Lez Durance	**IMI**	**December 16th Afternoon** https://openagenda.com/fr/semaine-industrie-2024/events/visite-diter-decouverte-des-activites-industrielles-du-projet
December	**15**	**CALL IMI 2024 / 2025**	**AAP RH#5 CALL #2** **AAP RECHERCHE #6**	**The calls for proposals are open until December 15, 2024.**		Download link : https://amubox.univ-amu.fr/s/kYzFtgKCRttpXjg The project will be send to cedric.fages@univ-amu.fr
May 25	**19**	**Spring School LBM**		CIRM International Mathematical Reshearch		To be precised