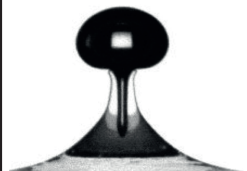


A JOURNEY THROUGH INTERFACES, TURBULENCE AND MOVING BODIES IN FLUIDS

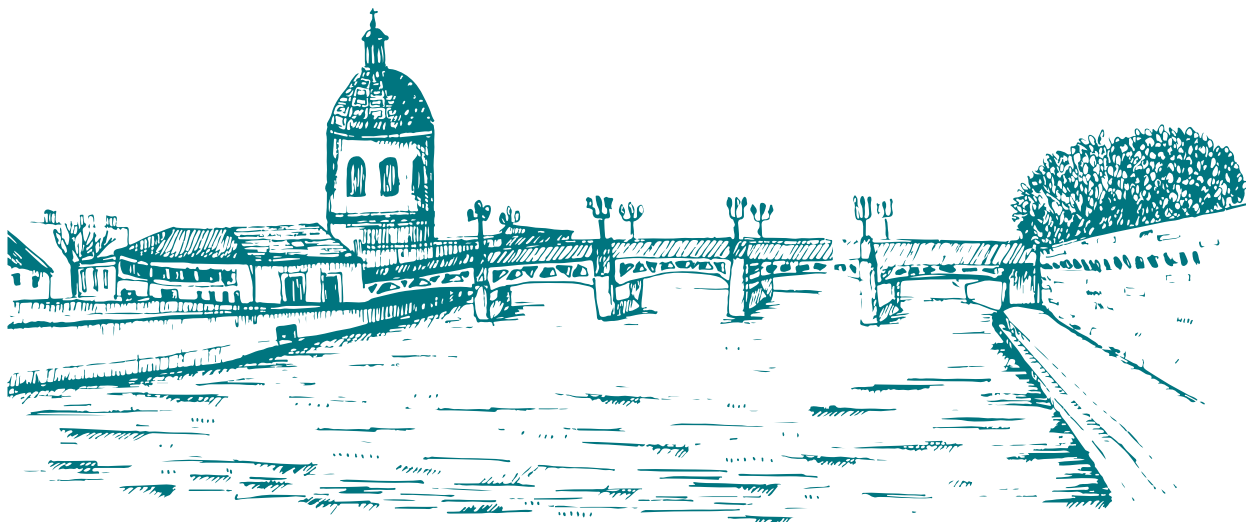


A colloquium on the occasion of Jacques Magnaudet's 65th birthday

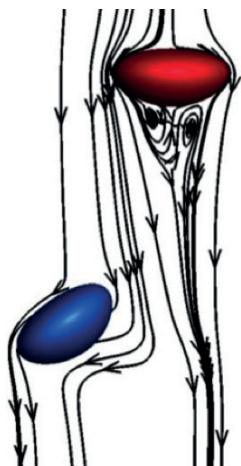


March
27-29, 2024

PROGRAMME



This symposium, organized by the Toulouse Institute of Fluid Mechanics (IMFT) is in honour of Jacques Magnaudet, to celebrate his scientific achievements and service to the fluid mechanics community. The colloquium features a series of invited lectures by leading fluid dynamicists who interacted closely with Jacques during his career.



Confirmed speakers:

A. Bottaro (Genoa), M. Bourgoïn (Lyon), F. Candelier (Marseille), C. P. Caulfield (Cambridge), C. Clanet (Palaiseau), J. Eggers (Bristol), F. Gallaire (Lausanne), J. Gordillo (Seville), R. Govindarajan (Bangalore), E. Guazzelli (Paris), E. J. Hinch (Cambridge), C. Josserand (Palaiseau), R. Kerswell (Cambridge), E. Lauga (Cambridge), M. Le Bars (Marseille), P. Le Gal (Marseille), L. Limat (Paris), P. F. Linden (Cambridge), D. Lohse (Enschede), C. Martinez-Bazan (Granada), M. R. Maxey (Brown), S. Michelin (Palaiseau), F. Moisy (Orsay), S. G. Monismith (Stanford), J. F. Morris (City College NY), A. Naso (Lyon), S. Popinet (Paris), O. Pouliquen (Marseille), A. Prosperetti (Houston), A. Pumir (Lyon), D. Quéré (Paris), M. Rabaud (Orsay), H. A. Stone (Princeton), G. J. F. van Heijst (Eindhoven), R. Verzicco (Rome), E. Villermaux (Marseille), S. Zaleski (Paris), R. Zenit (Brown).



Wednesday March 27th

09:00	09:20	Welcome address Eric Climent (Head of IMFT)	
Session 1 : Chairperson Benoît Pier			
09:20	09:45	G. J. F. van Heijst	Experiments on shallow flows
09:45	10:10	M. Rabaud	Emergence of wind-waves at the surface of a viscous liquid
10:10	10:35	S. G. Monismith	Water waves, turbulence, and drag
10:35	11:00	Coffee Break	
Session 2 : Chairperson Benoît Scheid			
11:00	11:25	M. R. Maxey	Mesosopic simulations of cavitation and vapor bubble development
11:25	11:50	J. M. Gordillo	An overview on the theory of jets ejected after the collapse of cavities and on the skating of drops over gas or vapor layers
11:50	12:15	C. Martínez-Bazán	Dynamics and coalescence of bubbles in a bubble swarm
12:15	12:30	H. A. Stone	Bubble dynamics in confined geometries
12:40	14:30	Lunch	
Session 3 : Chairperson Giovanni Ghigliotti			
14:30	14:55	L. Limat	Drops sliding down a plane revisited on a deformable substrate
14:55	15:20	S. Michelin	Self-propulsion and interactions of chemically-active droplets
15:20	15:45	E. Lauga	Biological flows inside cells
15:45	16:10	D. Quéré	Rocking and rolling drops
16:10	16:40	Coffee break	
Session 4 : Chairperson Tobias Schneider			
16:40	17:05	R. Govindarajan	Low-Reynolds-number instability in dusty channel flow
17:05	17:30	R. R. Kerswell	Contact-induced rigidity and shear thickening in dense suspensions
17:30	17:55	A. Bottaro	Turbulence over a micro-structured wall
18:30	Cocktail The Main Hall of the university (Administration building, close to Upsidum)		



Lunch will be served every day at 1 p.m.
at the Upsidum restaurant on the campus (see the map).
Walking from CBI to Upsidum takes approximately 12 min.
A special bus will also be available both ways.



A cocktail will be served on Wednesday 27 at 6.30 p.m.
in the Main Hall of the university
(Administration building, close to Upsidum).
From there, the nearest metro station to return to the city centre is
Université Paul Sabatier.

Thursday March 28th

Session 5 : Chairperson Alban Sauret

09:00	09:25	M. Le Bars	Iron snow in planetary interiors
09:25	09:50	A. Naso	Settling and collisions of ice crystals in clouds
09:50	10:15	C. Josserand	Wetting and solidification
10:15	10:45	Coffee Break	

Session 6 : Chairperson Florence Raynal

10:45	11:10	C. P. Caulfield	Shaken by physics or stirred by machine: Modelling stratified mixing (with a twist)
11:10	11:35	P. Le Gal	On the wanderings of a ludion in a corral: in search of a quantum analogy
11:35	12:00	P. F. Linden	The stratified inclined duct and the dynamics of stratified turbulence
12:00	12:25	D. Lohse	Melting of ice

Lunch

Session 7 : Chairperson Micheline Abbas

14:30	14:55	F. Moisy	Preferential orientation of floaters drifting in water waves
14:55	15:20	F. Gallaire	Path instabilities of a falling permeable thin disk
15:20	15:45	F. Candelier	Inertia effects on the dynamics of particles in non-uniform flow
15:45	16:10	A. Pumir	Settling of anisotropic particles in air
16:10	16:40	Coffee break	

Session 8 : Chairperson Fabien Thiesset

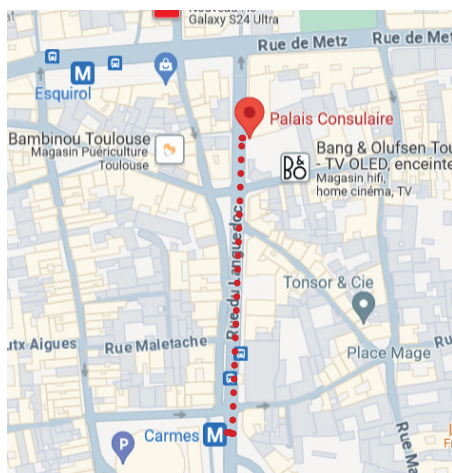
16:40	17:05	A. Prosperetti	Particulate Rayleigh-Bénard convection
17:05	17:30	R. Verzicco	Dynamics of inertial chiral particles in homogeneous isotropic turbulence
17:30	17:55	S. Zaleski	Numerical prediction of mass transfer

20:00

Gala Dinner (Palais Consulaire - 2 rue Alsace Lorraine, Toulouse)



The gala dinner will take place on Thursday 28 at 8 p.m. in the salle Doumergue of the hôtel de Ciron-Fumel (Palais Consulaire), located at the corner of rue Alsace-Lorraine and rue Croix-Baragnon, in the city centre. The Palais is just a three-minute walk from the metro station Carmes, still on line B. It is a 12 min. walk from Jean-Jaurès. Walk straight ahead when you exit the station and cross the street after 150 m to reach the gate (photo below).



Friday March 29th

Session 9 : Chairperson Christophe Eloy

09:30	09:55	C. Clanet	Track cycling physics
09:55	10:20	M. Bourgoïn	Rare-event triggered transitions in a bistable aerodynamic pendulum
10:20	10:50	Coffee Break	

Session 10 : Chairperson Benjamin Dollet

10:50	11:15	E. Guazzelli	Influence of inertia on the orientation of bodies of revolution in shear flow
11:15	11:40	J. F. Morris	Criticality at the rigidity transition in dense suspensions
11:40	12:05	E. J. Hinch	Oldroyd B, and not A?
12:05	12:30	O. Pouliquen	Mechanics of entangled fibers
12:30	14:30	Lunch	

Session 11 : Chairperson Arnaud Antkowiak

14:30	14:55	S. Popinet	Marangoni forces and surfactants
14:55	15:20	R. Zenit	Zig-zagging bubbles and JM
15:20	15:45	J. Eggers	Surprising surface tension
15:45	16:10	E. Villermaux	Bubble obsessions
16:10	16:40	Coffee break and farewell	

Taxi Information

Capitole Taxi
05 34 250 250
capitole-taxi.com
Reservation by call or via app

La Toulousaine Taxi
05- 61-20 90 00
taxi-de-toulouse.fr
Reservation by call

Taxi Toulouse 31
06-72-87-71-26
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