

## Program of the colloquium in honour of Paul Clavin

<b><u>Wednesday 13 June</u></b>		
14h00 - 14h30	M.G. Velarde	From surfing in rivers or at the seashore to electron surfing in crystal lattices
14h30 - 15h00	G. Joulin	The Zhdanov-Trubnikov equation for flame shapes : a problem at crossroads.
15h00 - 15h30	A.L. Sánchez	Ignition time of hydrogen-air diffusion flames
<b>Coffee break</b>		
16h00 - 16h30	G. Sivashinsky	Detonation-propelled shocks in tubular charges as a two-phase problem
16h30 - 17h00	S. Candel	Challenges in swirling flame dynamics
17h00 - 17h30	A.K. Kapila	An extended two-phase multi-material model for compliantly-confined detonations
17h30 - 18h00	A. Liñán	Direct initiation of self-sustained detonations
<b><u>Thursday 14 June</u></b>		
08h30 - 09h00	N. Peters	A new geometrical feature in turbulence : a surface which contains all extremal points of the turbulent kinetic energy
09h00 - 09h30	M. Matalon	The effect of the Darrieus-Landau instability on the propagation of turbulent premixed flames
09h30 - 10h00	L. Vervisch	Time history effects in non-premixed flames and application to Large Eddy Simulation using an optimization-based detailed chemistry tabulation
<b>Coffee break</b>		
10h30 - 11h00	F. Williams	Challenges in the analysis of gaseous detonations
11h00 - 11h30	A. Arnéodo	Spatio-temporal organization of replication :on genome evolution and large-scale chromatin folding
11h30 - 12h00	E.D. Siggia	Geometry and embryonic patterning
<b>Lunch</b>		
13h30 - 14h00	R. Lefever	Non-local FKPP equations, feedback vacuum, and the modelling of vegetation patterns
14h00 - 14h30	G. looss	Quasipatterns in a parametrically forced fluid film
14h30 - 15h00	H. Berestycki	The effect of roads on Fisher-KPP propagation
15h00 - 15h30	C. Josserand	Pressure on drops: what is the role of the surrounding gas?
<b>Coffee break</b>		
16h00 - 16h30	J. Eggers	Surprising surface tension
16h30 - 17h00	B. Audoly	Dynamics of elastic rods and viscous threads
17h00 - 17h30	P. Clavin	Formation of Mach stems on shock waves

<b>Friday 15 June</b>		
08h30 - 09h00	L. Masse	Stabilizing effect of anisotropic diffusion on the ablative Rayleigh-Taylor instability
09h00 - 09h30	J. Sanz	Linear stability of self-similar Guderley/Sedov type flows
09h30 - 10h00	A. Pumir	The Pirouette effect in turbulence
<b>Coffee break</b>		
10h30 - 11h00	M. Champion	Turbulent transports in premixed flames: recent results on algebraic models
11h00 - 11h30	J. Wallenborn	Quantum mechanics for dummies
11h30 - 12h00	P.L. Garcia	Local burning velocity in a bunsen jet flame
<b>Lunch</b>		
13h30 - 14h00	C. Allègre	Global warming : where do we stand?
14h00 - 14h30	Y. Pomeau	Mysteries of the Leidenfrost effect
14h30 - 15h00	P. Couillet	Archimedes and the stability of floating bodies
<b>Coffee break</b>		
15h30 - 16h00	Y. Couder	Two experiments on wave-particle duality at macroscopic scale
16h00 - 16h30	J. Prost	The mesoscopic physics of tissue dynamics
16h30 - 17h00	J. Piasecki	Casimir forces induced by Bose-Einstein condensation