

# **MSPM-JRJJ2014 : Modeling and Simulation in Porous Media**

## **8-9 Dec 2014, Inria Paris-Rocquencourt**

### **Conference schedule**

**Monday, December 8**

8:30	REGISTRATION	
9h15	OPENING : I. Ryl	
(Director of the Inria Paris - Rocquencourt research centre)		
Chair :	H. Benameur	
9h30	G. Chavent	Total Differential interpolation of Two-phase Data for Three-phase Compressible Flows (with R. DiChiara-Roupert and G. Schäfer)
10h15	COFFEE BREAK	
Chair :	E. Bécache	
10h45	M. Wheeler	30 Years Working with Jaffré and Roberts on Modeling Flow in Porous Media
11h30	Y. Brenier	Darcy law, gradient flows and parabolic systems
12h30	LUNCH BREAK	
Chair :	Z. Benjelloun-Touimi	
14h00	P. Bastian	High-order Discontinuous Galerkin Schemes for Flow in Porous Media
14h45	M. Jaoua	Plasma boundary reconstruction using topological asymptotics
15h30	TEA BREAK	
Chair :	N. Gmati	
16h00	J. R. de Dreuzy	Role of flow models and simulations for assessing waste disposal and recoverable ressources in fractured media
16h45	P. Knabner	Only Old Wine in New Bottles? Thermodynamics of Mixtures from a PDE Point of View

## Tuesday, December 9

8:30	REGISTRATION	
Chair : A. Ben Abda		
9h30	P. Joly	Mathematical and numerical investigation of an interface resonance phenomenon in electromagnetism
10h15	Z. Mghazli	A contribution to the multi-scale finite element method (with A. Lozinski and K. Ouldahmed)
11h00	COFFEE BREAK	
Chair : J. Erhel		
11h30	T. Russell	Reflections on three decades of science and camaraderie
12h15	R. Helmig	Multi-scale and multi-physics modelling of flow and transport processes in porous media (with B. Becker, B. Flemisch and Martin Schneider)
13h00	LUNCH BREAK	
Chair : B. Amaziane		
14h30	I. Faille	Modeling flow in faulted porous media
15h15	G. D. V. Gowda	Numerical methods for a hyperbolic system of balance laws arising in the formation of sandpile on a finite table
16h00	M. Vohralík	Mixed finite elements: a priori analysis, implementation, and use in a posteriori analysis
17h00	CLOSING COCKTAIL	