

## II CSMA-SEMNI workshop - SCHEDULE

Monday February 2nd	12:30	Lunch		
	14:00		LaTIN-PGD for smart grid simulation	P. Diez
	14:30		Efficient dimensional reduction of nonlinear finite element models. Application to multiscale structural analysis.	Joaquín A. Hernández, J. Oliver
	15:00		A piecewise model order reduction method for the simulation of the nonlinear behaviour of wire ropes	Nerea Otaño, Mikel Urchegui, Damien Durville, Hodei Usabiaga and David Neron
	15:30	Coffee break		
	16:00		Invited Talk: high order discontinuous finite volume scheme	Goran Stipcich
	16:30		Optimal control for Poisson equation using PGD	Pierre Joyot, Nicolas Bur

Tuesday February 3rd	09:00		Efficient low dimensional modelling based on POD and residual estimates	Maria-Luisa Rapun, Filippo Terragni, Jose M. Vega
	09:30		Towards real time analysis in multi-scale computational design of engineering materials	A. Ferrer, J.C. Cante, J. Oliver
	10:00		Real-time simulation of surgical cutting in haptic environments using computational vademecums	Carlos Quesada, David González, Iciar Alfaro, Elías Cueto, Francisco Chinesta
	10:30	Coffee break		
	11:00		Reduced-Order Subscales for POD models	Joan Baiges, Ramon Codina and Sergio Idelsohn
	11:30		Why do you use an Eulerian frame to solve your CFD problems if using a Lagrangian frame is faster and more accurate?	Sergio Idelsohn, Eugenio Oñate, Norberto Nigro, Pablo Becker, Juan Gimenez
	12:00	Lunch		
	13:30		PGD-Virtual Charts for structural design: application to geometrical parameters	Amaury Courard, David Néron, Pierre Ladevèze, Alain Bergerot, Ludovic Ballere
	14:00		Model Order Reduction of parametric multiphysical models	Aguado Jose Vicente, Borzacchiello Domenico, Chinesta Francisco
	15:00		A new Proper Generalized Decomposition methods based on the Constitutive Relation Error	Pierre-Eric Allier, Ludovic Chamoin, Pierre Ladevèze
	15:30	Coffee break		
	16:00		Advanced techniques for coupling domains under the Proper Generalized Decomposition framework	E. Nadal, A. Huerta, F. Chinesta
	16:30		PGD for updated Lagrangian flows	D. Canales, E. Cueto, F. Chinesta, A. Huerta
	20:00	Gala dinner		

Wednesday February 4th	09:00		Bifurcation problems: a PGD approach	M. Beringhier
	09:30		Real-time simulation of contact	C. Quesada, D. Gonzalez, I. Alfaro, E. Cueto, F. Chinesta
	10:00		PFR(Robitized Fiber Placement) process control using PGD	N.Bur, P. Joyot
	10:30	Coffee break		
	11:00		Discussion	
	11:30			
	12:00	Lunch		