

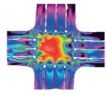
PhotoMechanics 2013

Montpellier May 27-29



Program

May 26	6h - 9h PM	Early Welcome drink (Faculty of Medecine)
May 27	8h-8h50 AM	Registration
	8h50-9h10 AM	Welcome
	9h10-9h55 AM	Plenary Conf. 1 -
	9h55-11h15 AM	Surface imaging
	11h15-11h40 AM	Coffee Break
	11h40 AM-1h20 PM	Material identification 1
	1h30-2h30 PM	Lunch
	2h40-4h00 PM	Material identification 2
	4h00-4h30 PM	Coffee Break
	4h30-6h10 PM	Volume imaging
	6h15-7h30 PM	Drink+Exhibitors+Posters
May 28	8h30-9h15 AM	Plenary Conf. 2
	9h15-10h55 AM	Thermomechanical analysis 1
	10h55-11h30 AM	Coffee Break
	11h30 AM-1h10 PM	Thermomechanical analysis 2
	1h30-2h30 PM	Lunch
	2h40-4h PM	Exhibitor and Poster session
	4h-4h30 PM	Coffee Break
	4h30-6h10 PM	Damage - Fracture - Fatigue
	7h - 11.30 PM	Montpellier historical visit and Banquet
May 29	8h30-9h15 AM	Plenary Conf. 3
	9h15-10h55 AM	Biomechanics
	10h55-11h20 AM	Coffee Break
	11h20 AM-1h20 PM	Micromechanics
	1h30-2h30 PM	Lunch
	2h40-4h20 PM	Surface Imaging - Others
	4h20-4h25 PM	Closure
		4h25-5h PM



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May 26	6h - 9h PM	Early Welcome drink (Faculty of Medicine)	
May 27	8h-8h50 AM	Registration	
	8h50-9h10 AM	Welcome	
	9h10-9h55 AM	Plenary Conf. 1 - New approaches to material behavior characterization through volume analyses S. Roux (LMT Cachan, France), M. Grédiac	
	9h55-11h15 AM	Surface imaging J.-J. Orteu - P. Vacher	
	9:55 AM	10:15 AM	A validated point-wise approach to the analysis of complex composite structures using digital image correlation and thermoelastic stress analysis G. Crammond, S. Boyd and J. Dulieu-Barton
	10:15 AM	10:35 AM	Kinematic measurements of 316L(N) polycrystals to identify parameters of crystal plasticity law A. Guery, F. Hild, F. Latourte and S. Roux
	10:35 AM	10:55 AM	A generic synthetic image generator package for the evaluation of 3D digital image correlation and other computer vision-based measurement techniques D. Garcia, J.-J. Orteu, L. Robert, B. Wattrisse and F. Bugarin
	10:55 AM	11:15 AM	Direct stress-strain measurement for bulged membranes J. Neggers, J. Hoefnagels, S. Roux, F. Hild and M. Geers
	11h15-11h40 AM	Coffee Break	
	11h40 AM-1h20 PM	Material identification 1 F. Latourte - P. Lava	
	11:40 AM	12:00 AM	Combining digital image correlation and virtual fields to design an optimized experimental setup for material identification P. Lava, M. Rossi, M. Badaloni, D. Debruyne and F. Pierron
	12:00 AM	12:20 AM	Simultaneous measurement of Young's modulus and Poisson's ratio at microscale with multiple modes scanning microdeformation microscopy and full-field measurements T. Travaillet, P. Vairac, P. Delobelle and F. Amiot
	12:20 AM	12:40 AM	A new procedure for the identification of the delamination phenomena B. Blaysat, J.P.M. Hoefnagels, G. Lubineau, G.M.D. Geers
	12:40 AM	1:00 PM	A new regularized model updating approach for accurate mechanical properties identification of composite materials B. Rahmani, I. Villemure and M. Lévesque
	1:00 PM	1:20 PM	Identification of an interface behavior based on full-field measurements R. Gras, A. Treira, H. Leclerc and S. Roux
	1h30-2h30 PM	Lunch	
	2h40-4h00 PM	Material identification 2 F. Amiot - J. Huntley	
	2:40 PM	3:00 PM	Fourier-series-based virtual fields method for the identification of 2-D stiffness distributions T. Nguyen, J. Huntley, I. Ashcroft, P. Ruiz and F. Pierron
	3:00 PM	3:20 PM	Synchronised digital image correlation and IR measurements on a polymer to validate a coupled thermomechanical constitutive model A. Maurel-Pantel, E. Baquet, J. Bikard, N. Billon
	3:20 PM	3:40 PM	Sheet steel material parameter identification utilizing a biaxial tensile test and optical full-field measurements S. Schmaltz, K. Willner
	3:40 PM	4:00 PM	Two-scale FEMU identification of mechanical parameters C. David, J.C. Passieux, J.N. Périé, L. Robert
	4h00-4h30 PM	Coffee Break	
	4h30-6h10 PM	Volume imaging M. Bornert - J.-C. Dupré	
	4:30 PM	4:50 PM	Experimental characterisation of sand deformation at the grain scale E. Ando, G. Viggiani, S. Hal, J. Desrues, P. Bésuelle
	4:50 AM	5:10 PM	Optical coherence tomography for the study of polymer and polymer matrix composites P. Liu, R. Groves and R. Benedictus
	5:10 PM	5:30 PM	A novel digital volume correlation strategy applied to lightweight gypsum indentation tests A. Bouterf, S. Roux, F. Hild, E. Maire, J. Adrien, S. Meille, D. Vivier and X. Brajer
	5:30 AM	5:50 PM	Correction of refraction induced distortion in optical coherence tomography corneal reconstructions for volume deformation measurements J. Fu, F. Pierron and P. Ruiz
	5:50 AM	6:10 PM	Developpement of a new fast optical scanning tomography P. Morandi, F. Brémand, P. Doumalin, A. Germaneau and J.-C. Dupré
	6h15-7h30 PM	Drink+Exhibitors+Posters	
May 28	8h30-9h15 AM	Plenary Conf. 2 - Current and upcoming use of imaging techniques in the characterization of multi-physical couplings Q.P. Sun (HKUST Hong Kong, China), J. Barton	
	9h15-10h55 AM	Thermomechanical analysis 1 U. Galletti - C. Pradere	
	9:15 AM	9:35 AM	Thermomechanical determination of the CRSS in a polycrystal R. Seghir, X. Wang, A. El Bartali, E. Charkaluk, J.F. Witz and P. Dufrénoy
	9:35 AM	9:55 AM	Heat source calculation from noisy temperature fields using a derivative Gaussian filter D. Delpueyo, X. Balandraud and M. Grédiac
	9:55 AM	10:15 AM	Full-field thermoelastic stress analysis of an unsymmetrically-loaded elliptically perforated structure W. Abdel Samad and R. Rowlands
	10:15 AM	10:35 AM	Thermal and calorimetric evolutions of natural rubbers under cyclic loadings J.R. Samaca Ricardo, J.B. Le Cam, X. Balandraud, E. Toussaint and J. Caillard
	10:35 AM	10:55 AM	Failure and damage in CRTP torsion tubes E. Hack, M. Feligiotti, R. Fruehmann and J. Dulieu-Barton
	10h55-11h30 AM	Coffee Break	
	11h30 AM-1h10 PM	Thermomechanical analysis 2 E. Hack - J.-B. Le Cam	
	11:30 AM	11:50 AM	On the use of thermal and kinematic fields to identify strain amplitudes in cyclic laser pulses on AISI 304L stainless steel C. Esnoul, L. Vincent, M. Poncelet, F. Hild and D. Fargage

11:50 AM	12:10 AM	Shearography and thermography coupling applied to NDT of bonding interface for reinforced concrete structure L-D Thérout, X. Maldague and J. Dumoulin
12:10 AM	12:30 AM	Use of infrared thermography for in situ damage monitoring in woven composites J-M. Roche, D. Balageas, P. Lapeyronnie, F. Passilly and A. Mavel
12:30 AM	12:50 AM	A new filtering approach dedicated to heat sources computation from thermal field measurements T. Pottier, H. Louche, S. Samper, H. Favrière and F. Toussaint
12:50 AM	1:10 PM	Transient thermal tomography for temperature measurement by using terahertz photorefectivity C. Pradere, J.-P. Caumes, S. Benkhemis, E. Palomo, S. Dilhaire, D. Balageas and J.C. Batsale
1h30-2h30 PM Lunch		
2h40-4h PM Exhibitor and Poster session		
4h-4h30 PM Coffee Break		
4h30-6h10 PM Damage - Fracture - Fatigue B. Berthel - S. Roux		
4:30 PM	4:50 PM	Thermomechanical aspects of fatigue crack propagation N. Ranc, N. Saintier, T. Palin Luc and P.C. Paris
4:50 AM	5:10 PM	Dissipation measurements during ultrasonic fatigue tests A. Blanche, N. Ranc, V. Favier and A. Chrysochoos
5:10 PM	5:30 PM	Thermal full-field measurements on a lap joint welded specimen under cyclic loading P. Florin, M.L. Facchinetti, C. Doudard and S. Calloch
5:30 AM	5:50 PM	The optical method of caustics - Use of optically anisotropic materials E. Gdoutos
5:50 AM	6:10 PM	Crack threshold conditions under fretting loading by thermal analysis S. Fouvry, B. Berthel and A.B. Moustafa
7h - 11.30 PM Montpellier historical visit and Banquet		

May 29	8h30-9h15 AM	Plenary Conf. 3 - Real-time imaging techniques for bio-mechanical applications T. Salcudean (UBC Vancouver, Canada), P. Poignet	
	9h15-10h55 AM	Biomechanics F. Jourdan - F. Pierron	
	9:15 PM	9:35 PM	In vitro production of burst fractures: developments and experimental biomechanical analysis A. Germaneau, M. Saget, S. D'Houtaud, P. Doumalin, J.C. Dupré, F. Hesser, F. Brémand, P. Maxy and P. Rigoard
	9:35 PM	9:55 PM	Digital image correlation on annulus fibrosus soft tissue A. Baldit, D. Ambard, F. Cherblanc, P. Royer
	9:55 PM	10:15 PM	Optical techniques applied in orofacial biomechanics J.M. Monteiro, C.B. Correa, L. Mello and M. Vaz
	10:15 PM	10:35 PM	Comparative evaluation of the mechanical behaviour of a universal implant for proximal femoral fractures using a stereo image correlation technique R. Billard, P. Vacher, E. Vittecoq, F. Toussaint, L. Devun, C. Bonjour and Y. Arletta
	10:35 PM	10:55 PM	Biomechanical characterisation of lumbar belt by full-field techniques: preliminary results R. Bonnaire, J. Molimard, P. Calmels and R. Convert
	10h55-11h20 AM Coffee Break		
	11h20 AM-1h20 PM	Micromechanics E. Charkaluk	
	11:20 AM	11:40 AM	Investigation of deformation and damage of argillaceous rocks by means of in situ hydromechanical testing in an environmental scanning electron microscope L. Wang, M. Bornert, E. Héripré, D. Caldemaison, S. Chanchole, A. Pouya and B. Halphen
	11:40 AM	12:00 AM	The materials ageing platform : towards a toolbox to perform a wide range of research studies on the behaviour of industrial materials F. Latourte, C. Toulemonde, J-F. Rit Jean-François, J. Sanahuja, N. Rupin, J. Ferrari, E. Bosso, A. Guéry, J-M. Proix and B. Wattrisse
	12:00 AM	12:20 AM	Quantitative investigation of grain boundary sliding in halite rock by sem in situ testing and full field strain measurements A. Gaye, M. Bourcier, E. Héripré, M. Bornert, A. Dimanov, J. Raphanel and K. Sab
	12:20 AM	12:40 AM	Fullfield stress strain mapping of micronized structures using FEM based integrated global digital image correlation J. Hoefnagels, J. Neggens, F. Hild, S. Roux, J. Van Beeck and M. Geers
	12:40 AM	1:00 PM	Chemo-mechanical couplings identification from multiple-wavelengths microscopy F. Amiot, F. Kanoufi, S. Munteanu, J-P. Roger and G. Tessier
	1:00 PM	1:20 PM	Strain measurement in helium implanted polycrystal using image analysis on laue micro X-ray diffraction patterns M. Ibrahim, E. Castelier, H. Palancher, A. Richard, P. Goudeau, M. Bornert and S. Caré Sabine
	1h30-2h30 PM Lunch		
	2h40-4h20 PM	Surface Imaging - Others E. Gdoutos - A. Germaneau	
	2:40 PM	3:00 AM	Using a Monte-Carlo-based approach to evaluate the uncertainty on fringe projection technique J. Molimard and L. Navarro
	3:00 PM	3:20 AM	Improving the spatial resolution of the grid method with deconvolution M. Grédiac, F. Sur, C.Badulescu and J.D. Mathias
	3:20 PM	3:40 AM	Digital shadow Moiré measurement of hygrothermal deformation of light guide plates W.C. Wang, Y.S. Lin and P.Y. Chen
	3:40 PM	4:00 AM	Direct strain and slope measurement using 3D DSPSI W. Dandach, J. Molimard and P. Picart
	4:00 PM	4:20 PM	Digital Image Correlation as a useful tool of analysis of hot cutting process R. Moulart, L. Fouilland and M. El Mansori
	4h20-4h25 PM	Closure	
	4h25-5h PM	Coffee Break	