

13th International Symposium on Nondestructive Characterization of Materials
Le Mans, France, May 20-24, 2013

Poster Presentations

P-01	Non-destructive characterization of plastics using acousto-elastic measurements <i>Sarah Mager-Maury, C.Plag, J.Fournier, and M.Defontaine</i> University Hospital of Tours - Tours Hospitals, Tours, France
P-02	Estimation of the thickness of thin metal sheet, using the group velocity, at low frequencies, of A₀ Lamb mode <i>S. Sait, Fouad BouBenider, and Y. Abbas</i> University of sciences and technology Houari Boumediene, Algeria
P-03	Elaboration, characterization and luminescence properties of nanocrystalline Bi_{2-x}La_xWO₆ prepared by co-precipitation method <i>Hassan Ait Ahsaine, M. Ezahri, A. Benlhachemi, A. Taoufyq, and J.R.Gavarri</i> Ibn Zohr University, Agadir, Morocco/ University of the South Toulon-Var, La Garde, France
P-04	Submerged arc welding online quality evaluation using infrared thermography based fuzzy reasoning <i>Laib dit Leksir Yazid, Bouhouche Salah, Boucherit Mohamed Seghir, and Bast Jurgen</i> Iron and Steel Applied Research Unit – CSC, Annaba, Algeria/ Algerian Institute of Technology, Algiers, Algeria/ HGUM, Freiberg University of Mining and Technology, Germany
P-05	Characterisation of surface residual stress using high frequency Rayleigh waves <i>Mohammadi Ouaftouh, Marc Duquennoy, Julien Deboucq, Jean-Etienne Lefebvre, Frédéric Jenot, and Mohamed Ourak</i> University of Valenciennes, Valenciennes, France
P-06	Nondestructive evaluation of fired concrete with surface waves <i>Vincent Metais, Odile Abraham, Guy Plantier, Géraldine Villain, Odile Coffec, Anaelle Luczak, Pierre Pimienta, and David Cuvelier</i> IFSTTAR, Bouguenais, France/ Groupe ESEO, Angers, France/ CSTB, Marne la Vallée, France/ CETE Nord-Picardie, Haubourdin, France
P-07	Influence of porosity on the propagation of ultrasonic waves in the bone tissue <i>Abderrazek Bennamane, and Tarek Boutkedjirt</i> University of Science and Technology Houari Boumediene, Algiers, Algeria
P-08	Study of mechanical and morphological properties of composite based on blend of polymer LDPE/EPDM and silica nanoscopic <i>Safieddine Bahlouli, Rachida Doufnoune, and Nacereeddine Haddaoui</i> Ferhat Abbas University, Setif, Algeria
P-09	Detection and localisation of defects in polymer concrete using nonlinear coda wave interferometry (CWI) <i>Souad Toumi, Charfeddine Mechri, Mourad Bentahar, Fouad Boubenider, and Rachid El Guerjouma</i> University of Sciences and Technology Houari Boumediene, Alia Bab Ezzouar, Algeria/ University of Maine, Le Mans, France
P-10	Nonlinear analysis of damaged metallic composite plates using guided waves <i>Yousra Baccouche, Mourad Bentahar, Charfeddine Mechri, Rachid El Guerjouma, and Mohamed Hédi Ben Ghozlen</i>

	University of Maine, Le Mans, France/ University of Sciences, Tunisia
P-11	Evaluation by ultrasonic methods of the elastic properties of softly compacted metal powders <i>Laurianne Barguet, V. Tournat, M. Bentahar, C. Pezerat, and R. El Guerjouma</i> University of Maine, Le Mans, France
P-12	Characterization of Algerian diatomite and its valorization as heat insulating and environmentally friendly water treatment material <i>Adel Balaska, T. Chouchane, A. Boukari, and A. Hamouda</i> National Research Center in Welding and Control- CSC Applied Research Unit in Steel Metallurgy, Annaba, Algeria
P-13	Integration of piezoelectric sensors for structural health monitoring of composite materials <i>Sahir Masmoudi, A. El Mahi, R. El Guerjouma, and S. Turki</i> University of Maine, Le Mans, France/ University of Sfax, Tunisia
P-14	Free vibration analyses of sandwich beam with and without debonding <i>Moustapha Idriss, A. El Mahi, and R. El Guerjouma</i> University of Maine, Le Mans, France
P-15	Possibilities of Lamb waves high modes for corrosions and fatigue cracks detection and characterization <i>Eric Auguste Crescenzo, Arnaud Pelletier, and Séverine Besson</i> Convergence Innovations, Gergy, France/ IXTREM, Sassenay, France
P-16	Evaluation of the matrix cracking and the delamination in damage laminates: energy approach <i>Jean-Luc Rebière</i> University of Maine, Le Mans, France
P-17	Non linear ultrasonic indicators, power laws and damage evolution in elastic media <i>Sonia Idjmarene, M. Scalerandi, M. Bentahar, and R. El Guerjouma</i> University of Maine, Le Mans, France/ Polytechnic University of Turin, Italy
P-18	Measure of the Parameters of ultrasound waves in the spongy bone. Application in the variation of the osseous mineral density <i>Hassiba Daoui, Fouad Boubenider, Hachemi Djoudi, and Chafika Haouichet</i> University of Sciences and Technology Houari Boumediene, Alia Bab Ezzouar, Algeria
P-19	DFT and ab initio methods for calculation of polarizability (α) and the hyperpolarizability (β) of substituted oriented polyacetylene chain: a comparative investigation <i>N. S. Labidi, F. Mechacht, Y. Bouzaher, and A. Djebaili</i> University of Sciences and Technology of Oran, Algeria/ University of Batna, Algeria
P-20	Passive tomography of acoustic waves: prediction and identification using ambient noise <i>Olfa Chaouch, Kosai Raoof, and Laurent Simon</i> University of Maine, Le Mans, France
P-21	Development of conductive polymer nano-composite piezo-resistive sensors for failure detection and damage accumulation monitoring <i>S. N. Chowdhury, I. Pillin, M. Castro, P. Longraisb, and J. F. Feller</i> European University of Brittany, Lorient, France/ ESI, Rungis, France
P-22	Phased array transducer for nondestructive testing of sandwich honeycomb: C-scan imaging, skin thickness measurement and detection of delamination <i>Elhadji Barra Ndiaye, Naïm Samet, Pierre Marchal, and Hugues Duflo</i> University of Le Havre, Havre, France
P-23	Polymerization monitoring and porosities detection In composites materials during manufacturing <i>Naïm Samet, Elhadji Barra Ndiaye, Pierre Marechal, and Hugues Duflo</i>

	University of Le Havre, Havre, France
P-24	Characterization and modeling tools for ultrasonic waves propagation in a stack of one-dimensional linear arrays of wires in a viscoelastic matrix <i>Blandine Dobigny, Nicolas Leymarie, Didier Cassereau</i> CEA LIST, 91191 Gif-sur-Yvette, France
P-25	Detection of volume defects from few X-Ray images in NDT <i>I. BEN TEKAYA, F. BUYENS, V. KAFTANDJIAN, S. SEVESTRE</i> CEA LIST, 91191 Gif-sur-Yvette, France, INSA Lyon, CNDR, 25 avenue Jean Capelle 69621, France ; Linklab, Telnor Technocentre, Rue du Lac Léman 1053 Les berges du lac - Tunisia
P-26	A model for the ultrasonic field radiated by an Electro-Magnetic Acoustic Transducer in a ferromagnetic solid <i>Clémence Rouge, Alain Lhémy, Henri Walazek</i> CEA LIST, 91191 Gif-sur-Yvette, France ; CETIM, 52, av. Felix Louat, 60300 Senlis, France
P-27	Boundary Element method (BEM) and Fourier integral, application to the interaction of Lamb waves with a defect located in a plate <i>N. BEDRICI, M. BENTAHAR, Ph. GATIGNOL</i> ESTACA, Parc Universitaire Laval Changé Rue Georges Charpak, BP 76121 Laval Cedex 9, France; Laboratoire Roberval, UMR CNRS 6253, Université de Technologie de Compiègne, BP 20 529, 60205, France.
P-28	Structural characterization of polymers using X-ray reflectometry <i>W. Jilani, C. Zerrouki, N. Fourati, R. Zerrouki, H. Guermazi</i> Unité de recherche de Physique des Matériaux Isolants et Semi-isolants, IPEIS, Rue Menzel Chaker, BP 1172, 3018 Sfax, Tunisia ; EC3B, Physique, CNAM, 2 rue Conté, 75003 Paris, France ; Laboratoire de Chimie des Substances Naturelles, 123, Avenue Albert Thomas, 87060 Limoges cedex, France