

Les publications LMR de 2015

Articles dans des revues internationales ou nationales avec comité de lecture répertoriées dans les bases de données internationales (ACL)

- **P.B. Silva, J.-M. Mencik, J.R.F. Arruda**, "On the use of the wave finite element method for passive vibration control of periodic structures", *Advances in Aircraft and Spacecraft Sciences* (accepted for publication).
- **T. Youssef, W. Rmili, S. Azzopardi, E. Woïgard, N. Vivet, D. Martineau, R. Meuret, G. Le Quilliec, C. Richard**, "Power modules die attach: A comprehensive evolution of the nanosilver sintering physical properties versus its porosity", *Journal of Microelectronics Reliability*, *accepted*.
- **R. Serra, W. Rmili**, "Experimental Evaluation of Flank Wear in Dry Turning from Accelerometer Data" *The International Journal of Acoustics and Vibration*, *accepted*.
- **C. Richard, B. Tillé-Salmon, Y. Mofid**, "Contribution to Interplay between a Delamination Test and a Sensory Analysis of mid-range Lipsticks", *International Journal of Cosmetic Science*, 37, 1-9 (2015). <http://dx.doi.org/10.1111/jcs.12242>
- **A. Dalmau, V. Guiñón Pina, F. Devesa, V. Amigó, A. Igual-Muñoz**, "Electrochemical behaviour of near-beta titanium biomedical alloys in phosphate buffer saline solution", *Materials Science and Engineering C* 48, 55-62 (2015). <http://dx.doi.org/10.1016/j.msec.2014.11.036>
- **V. Guiñón Pina, A. Dalmau, F. Devesa, V. Amigó, A. Igual-Muñoz**, "Tribocorrosion behaviour of beta titanium biomedical alloys in phosphate buffer saline solution", *Journal of the Mechanical Behavior of Biomedical Materials* 46, 59-68 (2015). <http://dx.doi.org/10.1016/j.jmbbm.2015.02.016>
- **J.-M. Mencik, D. Duhamel**, "A wave-based model reduction technique for the description of the dynamic behavior of periodic structures involving arbitrary-shaped substructures and large-sized finite element models", *Finite Elements in Analysis and Design*, 101, 1-14 (2015). <http://dx.doi.org/10.1016/j.finel.2015.03.003>
- **M. A. Sahali, I. Belaidi, R. Serra**, "Efficient genetic algorithm for multi-objective robust optimization of machining parameters with taking into account uncertainties", *The International Journal of Advanced Manufacturing Technology*, 77(1-4), 677-688 (2015). <http://dx.doi.org/10.1007/s00170-014-6441-z>
- **G. Gautier, J.-M. Mencik, R. Serra**, "A finite element-based subspace fitting approach for structure identification and damage localization", *Mechanical Systems and Signal Processing*, 58-59, 143-159 (2015). <http://dx.doi.org/10.1016/j.ymssp.2014.12.003>
- **C. Valantin, F. Lacroix, M.P. Deffarges, J. Morcel, N. Aït Hocine**, "Interfacial damage on fatigue-loaded textile-rubber composites", *Journal of Applied Polymer Science*, 132(4), (2015). <http://dx.doi.org/10.1002/app.41346>
- **H. Hassan, N. Aït Hocine, P. Médéric, M.-P. Deffarges, N. Poirot**, "Thermal and mechanical properties of PA12/C30B nanocomposites in relationship with nanostructure", *Journal of Applied Polymer Science*, 132(18), 41938 (2015). <http://dx.doi.org/10.1002/app.41938>
- **G. Le Quilliec, B. Raghavan, P. Breitkopf**, "A manifold learning-based reduced order model for springback shape characterization and optimization in sheet metal forming", *Computer Methods in Applied Mechanics and Engineering*, 285, 621-638 (2015). <http://dx.doi.org/10.1016/j.cma.2014.11.029>
- **A. Bhuddi, M.-L. Gobert, J.-M. Mencik**, "On the acoustic radiation of axisymmetric fluid-filled pipes using the Wave Finite Element (WFE) method", *Journal of Computational Acoustics*, 23(3), 1550011 (2015). <http://dx.doi.org/10.1142/S0218396X15500113>

Conférences données à l'invitation du Comité d'organisation dans un congrès national ou international (INV)

- **C. Richard**, Conférence invitée en préparation à Thermec'2016, Graz, Austria, May 29 - June 3 2016.
- **C. Richard**, "Les revêtements et traitements de surface appliqués au titane et ses alliages", Conférence donnée au 42^{ème} Congrès de l'A3TS : Traitements des matériaux - Performances économiques et Techniques, Saint Etienne, France, 2-4 juin 2015. Représentation de l'Association Française du Titane.
- **G. Le Quilliec, R. Leroy, C. Richard, M. Woydt, A. Morandeu**, "Comparison of the life-span of NbC-Co and WC-Co inserts during different machining operations on 100Cr6 (SAE 52100) bearing steel", *International Symposium on Wear Resistant Alloys for the Mining and Processing Industry*, Campinas, São Paulo, Brazil, May 2015.

Communications avec actes dans un congrès international (ACTI)

- **T. Youssef, W. Rmili, S. Azzopardi, E. Woïgard, N. Vivet, D. Martineau, R. Meuret, G. Le Quilliec, C. Richard**, "Power modules die attach: A comprehensive evolution of the nanosilver sintering physical properties versus its porosity", 26th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis, Toulouse, France, October 2015.
- **S. Dos Santos, D. Remach, M. Gratton, M. Caliez**, "Skin hysteretic behavior using acousto-mechanical imaging and nonlinear time reversal signal processing", 22nd International Congress on Sound and Vibration (ICSV22), Florence, Italy, July 2015.
- **A. Dalmau, W. Rmili, C. Richard, A. Igual-Muñoz**, "Tribocorrosion behavior of new martensitic stainless steels in sodium chloride solution", 27^{èmes} Journées Internationales Francophones de Tribologie (JIFT 2015), Nantes, France, May 2015.
- **D. Duhamel, J.-M. Mencik**, "A wave-based reduction technique for the dynamic behavior of periodic structures", 5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (Compdyn 2015), Crete Island, Greece, May 2015.
- **J.-M. Mencik, D. Duhamel, M.-L. Gobert**, "A 2D wave finite element-based superelement formulation for acoustic analysis of cavities of arbitrary shapes", 5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (Compdyn 2015), Crete Island, Greece, May 2015.
- **P.B. Silva, J.-M. Mencik, J.R.F. Arruda**, "On the use of the wave finite element method for passive vibration control of periodic structures", Novem 2015 Noise and vibration: Emerging technologies, Dubrovnik, Croatia, April 2015.
- **G. Berton, C. Cruanes, F. Lacroix, S. Méo, N. Ranganathan**, "Study of the fatigue behavior of the polychloroprene rubber with stress variation tests", 3rd International Conference on Material and Component Performance under Variable Amplitude Loading, Prague, Czech Republik, March 2015.
- **N. Ranganathan**, "Some aspects of variable Amplitude fatigue", 3rd International Conference on Material and Component Performance under Variable Amplitude Loading, Prague, Czech Republik, March 2015.

- **A. Ratier, P. Feraud, F. Chalon, N. Ranganathan, P. Lallet**, "A method for quantitative fatigue fracture surface analysis", 3rd International Conference on Material and Component Performance under Variable Amplitude Loading, Prague, Czech Republik, March 2015.

Communications avec actes dans un congrès national (ACTN)

- **G. Le Quilliec, B. Raghavan, P. Breikopf**, "Réduction de modèle basée sur l'apprentissage par variété appliquée à l'optimisation du procédé d'emboutissage", CSMA 2015, Giens, France, mai 2015.
- **S. Werda, A. Duchosal, G. Le Quilliec, A. Morandea, R. Leroy**, "A numerical investigation on oil mist behavior used in Minimum Quantity Lubrication (MQL) milling process", CSMA 2015, Giens, France, mai 2015.
- **W. Rmili, N. Vivet, S. Chupin, T. Le Bihan, G. Le Quilliec, C. Richard**, "Quantification 2D et 3D par tomographie FIB/SEM de la porosité d'une brasure à base d'argent fritté pour un nouveau composant microélectronique", Journées Matériaux Numériques, Saint Aignan, France, février 2015.

Communications orales sans actes dans un congrès international ou national (COM)

- **C. Richard, B. Tillé-Salmon, Y. Mofid**, "Contribution to interplay between a delamination test and a sensory analysis of mid-range lipsticks", Sensory Day, 2ème édition, Tours, France, 9 juillet 2015.
- **V. Loriquet**, "Sensorialité et surfaces d'appui dans les transports en commun", Sensory Day, 2ème édition, Tours, France, 9 juillet 2015.

Ouvrages Scientifiques - ou chapitres de ces ouvrages (OS)

- **G. Le Quilliec, I. Huther, A. Galtier, H.-P. Lieurade, F. Lefebvre, L. Jubin**, "Comportement en fatigue des matériaux métalliques (9Q249) : Fatigue des assemblages soudés, soudage à l'arc", Cetim - Collection Performances, ISBN: 9782368940372 (2015).

Autres publications (AP)

- **S. Boucaud Gauchet**, Rapports d'essais société Néolux, 2 rapports (2015).
- **S. Boucaud Gauchet**, M. Caliez Rapport d'essais Projet Mékinox, 1 rapport (2015).

Thèses de doctorat soutenues

- **Alba Dalmau Borrás**, "Study of tribological, corrosion and tribocorrosion behavior of new martensitic stainless steels for aeronautical applications", Encadrement C. Richard, A. Igual Munoz, thèse en co-tutelle franco - espagnole avec label européen (23 octobre 2015).
- **Guillaume Gautier**, "Diagnostic vibratoire des systèmes mécaniques par subspace fitting", Encadrement R. Serra, J.-M. Mencik (3 juillet 2015).
- **Christophe Cruanes**, "Etude du comportement en fatigue d'un élastomère synthétique : relation entre endommagement, renforcement et autoéchauffement", Encadrement G. Berton, F. Lacroix, N. Ranganathan (12 juin 2015).

Brevets et enveloppes Soleau

- **M. Pillet, V. Ratineau, V. Loriquet, C. Richard**, Enveloppe Soleau # 534351-240315 (09 avril 2015).