

## Session M3 - Sensors, high-frequency and electronic applications

Wednesday, September 9

- M3-01** A magneto-elastic sensor for screening of body position and mobility during sleep  
*Stefan Traxler, Helmut Pfützner, Alexander Schütter, Eugenijus Kaniusas, Karl Futschik*
- M3-02** Sensitivity and noise of transverse fluxgate with multiwire core  
*Pavel Ripka, M. Butta, Xiaoping Li, Fan Jie*
- M3-03** Differences in the magnetoimpedance of FeNi/Cu/FeNi multilayers with open and closed magnetic path  
*E. Fernández, A. García-Arribas, S. O. Volchkov, G. V. Kurl'yanskaya, J. M. Barandiarán*
- M3-04** The change of magnetic properties in the ion irradiated amorphous ribbon  
*Duck-Gun Park, Hoon Song, Chandra S. Angani, Cheol-Gi Kim, Young-Moo Cheong*
- M3-05** Coupled micro-machined magnetic resonators for microwave signal processing  
*Giorgio DeAngelis, Takuro Koike, Andrea Lucibello, Romolo Marcelli, Emanuela Proietti*
- M3-06** Dependence of discharge position on breakdown characteristic of tunnelling magnetoresistive read heads  
*N. Jutong, D. Sompongse, S. Sanvito, A. Siritaratiwat*
- M3-07** Application of Magnetoelastic sensors for torque measurements in ball valves  
*Jacek Salach, Adam Bieńkowski, Roman Szewczyk, Marcin Safinowski, Aleksandra Kolano-Burian*
- M3-08** Large airgap magnetic core for high dynamic, high linearity open loop current sensor  
*Alexandre Kerlain, Vincent Mosser, Youcef Haddab, Hartman Van Wyk*
- M3-09** A differential analog amplification circuit for small signals from induction coil sensors  
*Mauricio Rigoni, Afrânio C. Antonio-Jr., Túlio L. dos Santos, Nelson J. Batistela, Nelson Sadowski*
- M3-10** A current sensor for use in evaluation of metal oxide surge arresters  
*Mauricio Rigoni, Túlio L. dos Santos, Nelson J. Batistela, Nelson Sadowski, Patrick Kuo-Peng*

- M3-11** Bending stress dependence of magnetoimpedance in a Co-rich nearly magnetostriction glass-coated microwire  
*S. Larumbe, J. Olivera, J.I. Pérez-Landazábal, V. Recarte, G. Vargas, C. Gómez-Polo*
- M3-12** A Local Two-dimensional Vector Magnetic Sensor with Piercing Needles for Insulation Coating of Silicon Steel Sheets  
*Shigeru Aihara, Eiji Umehara, Yasuhiro Shimoji, Masato Enokizono*
- M3-13** Effect of a tunnel junction size on the exchange anisotropy dispersion  
*Soogil Lee, Jungho Ko, Jongill Hong*
- M3-14** Multidomain modeling for identification of mechanical state  
*Olivier Hubert, Said Lazreg*
- M3-15** Investigation of the dependence of sensitivity of magnetostriction of cobalt ferrite to applied field on cation ratio and processing parameters  
*C. I. Nlebedim, N. Ranvah, P. I. Williams, Y. Melikhov, J. E. Snyder, A. J. Moses, D. C. Jiles*
- M3-16** Acoustic ferromagnetic system for robotics applications  
*Jose A. Somolinos, Daniel Cortazar, Carlos Moron*
- M3-17** Flux-splitting position transducer with Si-Fe laminations  
*Aly F. Flores Filho, Roberto Mueller, Roberto P. Homrich*
- M3-18** Study of strain sensor using FeSiB magnetostrictive thin film  
*Yasuaki Suwa, Shuichiro Hashi, Kazushi Ishiyama*
- M3-19** Soft magnets for passive attitude stabilization of small satellites  
*Fausto Fiorillo, Fabio Santoni, Enzo Ferrara, Maria Libera Battagliere, Oriano Bottauscio, Filippo Graziani*
- M3-20** Design of a LVDT with high rejection to external interfering magnetic field  
*Alessandro Danisi, Roberto Losito, Michele Martino, Alessandro Masi, Giovanni Spiezia*
- M3-21** Ferromagnetic resonance and damping in soft magnetic films: measurements and intercomparison  
*M. Kuepferling, M. Pasquale, G. Bertotti, E. Olivetti, M. Coisson, F. Celegato, Y. Endo, Y. Mitsuzuka, M. Yamaguchi, S. Serrano-Guisan, H.W. Schumacher, P. Kabos*

- M3-22** Magnetoimpedance in exchange biased nanostructures  
*R.B. da Silva, A.D.C. Viegas, M.A. Correa, L.F. Schelp, R.L. Sommer*
- M3-23** High frequency magnetoimpedance in nanostructured films for magnetic sensor applications  
*Marcio A. Corrêa, Felipe Bohn, Alexandre D. C. Viegas, Rubem L. Sommer*
- M3-24** Harmonic distortion of magnetizing current in combined wound toroidal cores with different diameters  
*Marian Soinski, Roman Rygal, Robert Pytlech, Przemyslaw Pinkosz, Kamil Szafran*
- M3-25** A practical method to measure electrical AC conductivity of MnZn ferrites using conventional toroids  
*Alexander Stadler, Manfred Albach, Andreas Lindner*