



**DAY 2: Thursday, March 6, 2008**

**Oral Session 4 9:00 - 11:50 < Biomedical Applications of Ultrasound >**

- 9:00 ~ 9:30 [O4-1] "High intensity focused ultrasound treatment enhanced with nano- to micro-particles"  
Shin-ichiro Umemura, Shin Yoshizawa, Kazuaki Sasaki, Ken-ichi Kawabata  
Tohoku University, Japan
- 9:30 ~ 10:00 [O4-2] "New insights into high frequency ultrasonic tissue scattering"  
Michael C. Kolios, Gregory J. Czarnota  
Ryerson University, Canada
- 10:00 ~ 10:30 [O4-3] "Measurements of the longitudinal movement and the roughness of the arterial wall – New approaches in arterial characterisation"  
Magnus Cinthio, Åsa Rydén Ahlgren, Hideyuki Hasegawa, Tomas Jansson, Hans W. Persson, Kjell Lindström, Hiroshi Kanai  
Lund Institute of Technology, Lund University, Sweden
- Break
- 10:40 ~ 11:00 [O4-4] "Ultrasonic measurement of transient change in viscoelastic property of radial arterial wall due to Flow-mediated dilation"  
Kazuki Ikeshita, Hideyuki Hasegawa, Hiroshi Kanai  
Tohoku University, Japan
- 11:00 ~ 11:20 [O4-5] "Automated segmentation of heart wall based on coherence among ultrasonic RF echoes"  
Takaomi Kinugawa, Hideyuki Hasegawa, Hiroshi Kanai  
Tohoku University, Japan
- 11:20 ~ 11:50 [O4-6] "Methods for myocardial strain imaging"  
Jan D'hooge  
Catholic University of Leuven, Belgium

11:50 ~ 13:20 Lunch

13:20 ~ 14:50 **Poster Session 2**

**Oral Session 5 14:50 - 17:40 < Nano-Electronics >**

- 14:50 ~ 15:20 [O5-1] "Preparation and biomedical applications of ferrite nanoparticles"  
Masanori Abe  
Tokyo Institute of Technology, Japan
- 15:20 ~ 15:50 [O5-2] "Magnetic nanostructures in biomedical applications"  
Young Keum Kim  
Korea University, Korea
- 15:50 ~ 16:20 [O5-3] "Transport mechanisms in magnetic tunnel junctions"  
Joao Oliveira Ventura, J. M. Teixeira, J. P. Araujo, J. B. Sousa, R. Ferreira, P. Wisniowski, P. P. Freitas  
Instituto de Fisica dos Materiais da Universidade do Porto, Portugal
- 16:20 ~ 16:50 [O5-4] "Effect of thirds elements addition and multilayers on the ordering process of FePt thin films"  
Chan-Gyu Lee, Young Min Lee, Se Young O, Nguyen Dan Phuong, Keesam Shin, S. Okamoto, O. Kitakami, Y. Shimada  
Changwon National University, Korea
- 16:50 ~ 17:20 [O5-5] "STT microwave oscillation on spin valve film with self-assembling nano-confined domain wall structure"  
Masaaki Doi, Hiroaki Endo, Kazushige Shirafuji, Hiroaki Suzuki, Masashi Sahashi  
Tohoku University, Japan
- 17:20 ~ 17:40 [O5-6] "High spin polarization of epitaxial films with artificial alternate monatomic [Fe/Co]<sub>n</sub> superlattice"  
In Chang Chu, Ammanabrolu Rajanikanth, Yukiko Takahashi, Kazuhiro Hono, Masaaki Doi, Masashi Sahashi  
Tohoku University, Japan
- 17:40 ~ Closing Remarks