



Journées scientifiques 2012

New investigations and innovative techniques in imaging and therapy ultrasound

**Monday 15th and Tuesday October 16
Ecole Centrale de Lyon
Amphi 203**

Monday, October 15

13h30 Accueil

14h-14h40 **R. Cleveland** : “Nonlinear distortion associated with high-intensity focused ultrasound (HIFU) creates apparent displacements in acoustic radiation force imaging (ARFI)”

14h40-15h00 **H. Liebgott** : “Compressed sensing in Medical ultrasound”

15h00-15h20 **F. Lin** : “Improvement of contrast harmonic imaging”

15h20-15h40 **F. Varray** : “CREANUIS: a new ultrasound simulation tool dedicated to nonlinear imaging”

15h40-16h10 Coffee break

16h10-16h50 **V. Khokhlova** : “ Nonlinear aspects of modern ultrasound applications in medicine: High Intensity Focused Ultrasound (HIFU)”

16h50-17h10 **C. Lafon/T. Charrel** : “Ultrasound treatment of glaucoma “

17h10-17h30 **B. Gilles** : “Ultrasound thrombolysis”

17h30-17h50 **P. Labelle** : “Ultrasound transfection”

Tuesday, October 16

8h45 Accueil

9h10-9h50 **O. Sapozhnikov** : “A wide variety of nonlinear acoustic effects associated with a small kidney stone”

9h50-10h10 **J.C. Béra** : “Ultrasound cavitation control in real time”

10h10-10h30 **M. Karzova** : “Interaction of weak shocks leading to Mach stem formation in focused beams and reflections from a rigid surface”

10h30-11h00 Coffee break

11h00-11h20 **S. Salles** : “Real time US-tagging combined with phase-based optical flow applied to 2D motion estimation of the carotid artery wall”

11h20-11h40 **M. Toulemonde** : “Resolution improvement in Thomson’s multitaper approach using the pulse inversion technique”

11h40-12h10 **M. Lange** : “A new high frame-rate vector Doppler algorithm”

12h30 Lunch (Ecl)

Renseignements complémentaires

- Inscription gratuite
- Pour faciliter l’organisation des journées il est nécessaire de s’inscrire auprès de Marie-Gabrielle Perriaux (Marie-Gabrielle.Perriaux@ec-lyon.fr) avant le 12 octobre 2012
- Accès http://acoustique.ec-lyon.fr/guide_fr.php