

Journées Imagerie Multi-Ondes/ Workshop Multi-Waves Imaging

25-26-27 Juin 2014

Maison Jean Kuntzmann, Campus universitaire, Grenoble

Wednesday

13h00-13h50 Registration

13h50-14h Presentation of the Workshop

14h-15h Mathias Fink (Institut Langevin, CNRS-ESPCI ParisTech, Paris)

Title: Multiwave Imaging

15h-15h30 Thomas Chaigne (ESPCI, Paris)

Title: Contrôler de façon non invasive la lumière dans les milieux diffusants grâce à la matrice de transmission photoacoustique

15h30-16h00 Giovanni Alberti (University of Oxford, UK)

Title : Using multiple frequencies to enforce local constraints in PDE and applications to hybrid imaging problems

16h-16h30 Coffee/Tea break

16h30-17h30 Gunther Uhlmann (University of Washington, USA)

Title: Recovering the index of refraction from travel times

17h30-18h00 Bernd Kulesa (College of Science, Swansea University, Wales, UK)

Title: Multi-mode seismoelectric phenomena generated using vibroseis and explosive sources in a clay-rich environment

Thursday

9h-10h Michel Dietrich (ISTerre, Grenoble)

Title: Electro seismic: a natural bridge between seismology and electromagnetism for geological reservoir characterization

10h-10h30 Maitine Bergounioux (MAPMO, Orléans)

Title : Optimal Control Approach for Photoacoustic Tomography

10h30-11h Coffee/Tea break

11h-12h Otmar Scherzer (Université de Vienne, Autriche)

Title: Quantitative Estimation of Imaging Parameters in Photoacoustics using Focusing

or Assuming Piecewise Constant Imaging Parameters

12h-14h Lunch

14h-15h Simon Arridge (University College London, UK)

Title: Quantitative Photoacoustic Using the transport equation

15h-15h30 Laure Giovangigli (Ecole Normale Supérieure, Paris)

Title: Admittivity of biological tissues and its frequency dependence

15h30-16h Coffee/Tea break

16h-17h Vitaly Gusev (Université du Maine, Le Mans)

Title: Depth-profiling of the acoustic, optic and acousto-optic spatial inhomogeneities by techniques of laser-based nanoacoustics

17h-17h30 Jean Provost (ESPCI, Paris)

Title: Ultrafast Acoustoelectric Imaging

17h30-18h Jean-Baptiste Laudereau (ESPCI, Paris)

Title: Acousto-optic imaging at 793 nm thanks to self-adaptive holography in photorefractive media

Friday

9h-10h John Schotland (Michigan University, USA)

Title: Acousto-optic imaging and related inverse problems

10h-11h Stefan Catheline (INSERM, Lyon)

Title: Elastographie passive, élasto-tribologie, et élastographie par force de Lorentz: trois expériences à l'interface médecine-sismologie-physique.

11h-11h30 Coffee/Tea break

11h30-12h30 Laurent Seppecher (Ecole Normale Supérieure, Paris)

Title: Mathematical modeling of hybrid biomedical imaging by mechanic perturbation

Free afternoon.