Sixth International Workshop on the Multiscale Modeling and Methods

Saint-Etienne, November 9-10
Organized by Grigory Panasenko (University Jean Monnet)

Faculté des Sciences et Technologies,
23 rue P. Michelon, 42023, Saint-Etienne,
salle des séminaires du département de mathématiques

Session 1 : November 9, 16h15-18h30
Session 2 : November 10, 9h30-12h

Invited speakers:

Stéphane Avril (Mines, Saint-Etienne, France)
Andro Mikelic (University Claude Bernard, Lyon, France)
Claire Morin (Mines, Saint-Etienne, France)
Andrew Narracott (Sheffield University, UK)
Julia Orlik (Fraunhofer Institute, ITWM, Kaiserslautern, Germany)
Josip Tambaca (University of Zagreb, Croatia)
Bogdan Vernescu (Worcester Polytechnic Institute, USA)
Program

Salle des séminaires du département de mathématiques
(Faculté des Sciences) 23 rue P. Michelon, 42023 St-Etienne

9/11/15

16h15 : Andrew Narracaut, Sheffield University,
“Modelling and measurement of venous haemodynamics”

16h50 : Andro Mikelic, University of Lyon,
“Homogenization of the Mean Spherical Approximation (MSA) model
for the ion transport in porous media”

17h25 : Claire Morin, Mines St-Etienne,
“A multiscale micromechanical model for soft collageneous tissues”

18h00 : Stéphane Avril, Mines St-Etienne
“Mechanics and mechanobiology of the wall of the thoracic aorta”

10/11/15

9h30 : Julia Orlik, Fraunhofer ITWM, Germany,
“Evolutional contact with Coulomb’s friction on a periodic
microstructure”

10h05 : Bogdan Vernescu, Worcester Polytech, USA,
“Multiscale analysis of emulsions with surface tension effects”

Pause café

11h00 : Josip Tambaca, University of Zagreb,
“Derivation of poroelastic shell models from 3D poroelasticity”

11h35 : Grigory Panasenko, University of Saint-Etienne,
“Models with hybrid dimension for the blood flow”