PROGRAMME

Sunday June 17 (19 : 00): apéritif charentais

Monday June 18

9 - 9:30 D. Hubler A (non random) walk across models and applications of random structures (p. 3)

9:30 - 10 E. Maitre X-Ray Computed Tomography and FIB/SEM Tomography applied to Lithium battery electrodes (p. 3)

10 - 10:30 S. Velasco-Forets A review of Stochastic Watershed: integrating shape, texture, spectral, and hierarchical information (p. 4)

10:30 - 11 G. Novel Homogeneity of a Region in the Logarithmic Image Processing Framework (p. 5)

11 - 11:30 V. Schmidt Stochastic 3D microstructure modeling for the prediction of permeability and conductivity of three-phase microstructures (p. 20)

11:30 - 12 F. Held A unified framework for the identification of constitutive parameters from experimentally measured displacement fields (p. 8)

12 - 13:30 Lunch

Tuesday June 19

13:30 - 14 C. Lantuéjoul Estimation of the percolation threshold of boolean models (p. 9)

14 - 14:30 J. Angulo Boolean Random Function Characterization and (max, min)-convolution (p. 9)

14:30 - 15 K. Schlachetz Multi-scale analysis, modelling, and simulation of a nano-porous membrane (p. 30)

15 - 15:30 L. de Arcangelis On the micromechanics of a granular seismic fault model (p. 21)

15:30 - 16 F. Barbi Modelling of polycrystals using well-controlled Voronoi-type tessellations and its applications to micromechanical analyses (p. 12)

16 - 16:30 D. Depreester Faithful EBSD-based mesh generation of polycrystalline materials (p. 39)

16:30 - 17 S. Herrmann On a consistent discrete Green operator for FFT-based methods to solve heterogenous problems with eigenstrains and dislocations (p. 38)

17 - 17:30 POSTER SESSION: F. Seitz (p. 57), J. Stasik (p. 57), F. Rabette (p. 58), F. N’Guyen (p. 60), É. Kaeshammer (p. 61), H. Talbot.

Evening Address: F. Mudry (recording)

Wednesday June 20

13:30 - 14 D. Bernard 3D modelling of ferroelectric composite properties using X-ray micro tomography images: Effective permeativity and tunability (p. 21)

14 - 14:30 S. Kanaun Hydraulic Fracture Crack Propagation in Heterogeneous Materials (p. 22)

14:30 - 15 J. Willms Variance of stress and strain in a random composite (p. 25)

15 - 15:30 P. Ponte Castañeda A symmetric fully optimized second-order method for nonlinear homogenization (p. 26)

15:30 - 16 F. Coulomb Oligomaterials and Structures (p. 44)

Thursday June 21

13:30 - 14 L. Delanaye How grain shape influences backscattered and dislocation slip in fcc crystals (p. 40)

14 - 14:30 H. Trümper An investigation of microcracks-induced thermosoftening of a joined polycrystal by full-field FFT and mean-field homogenizations (p. 41)

14:30 - 15 F. Montiehdal Modelling of inhomogeneous self-organized microstructures associated with dynamic recrystallization in metals (p. 42)

15 - 15:30 R. A. Lebenshine FFT-based micromechanical modeling of polycrystalline materials with non-linear constitutive behavior and complex microstructures (p. 43)

15:30 - 16 J. Driessenkirch Architectured hybrid lattice structures (p. 52)

Friday June 22

COFFEE BREAK

FREE AFTERNOON

Banquet, Address: J. Sierra