

Conference Program

Day 1

08h30 Registration

09h00 Conference opening (chair and co-chairs)

Session 1 (chair: M. Sofonea)

09h30 Invited 1: **Meir Shillor - Modeling of Frictional Motion on a Gao Beam and of Debonding of Beams**

10h10 Talk 1: **F. Rabhi** - Influence of elastic-viscoplastic behaviour of amorphous thermoplastic polymers on the filling efficiency during hot compression moulding process

10h30 Talk 2: **Q. Lucot** - Experimental characterization of mechanical behavior of in vivo human skin by suction test

10h50 Coffee Break

Session 2 (chair: M. Shillor)

11h10 Talk 3: **M. Sofonea** - A linear 2d bar in frictional contact : modelling and simulations

11h30 Talk 4: **C. Bajer** - Vibration of Gao beam under the moving load in the case of constant and varying compression

11h50 Talk 5: **E. Florentin** - Error estimator for stochastic approximations based on Polynomial Chaos

12h10 Talk 6: **A. Mackojc** - A 3-DOF model as an approach to investigate parametric resonance phenomenon in offshore lifting operations

12h30 Lunch

Session 3 (chair: E. Florentin)

14h00 Invited 2: **Luc Scholtès** - Recent advances in DEM modeling and simulation of rocks

14h40 Talk 7: **S. Abide** - On a compact scheme discretization for the Signorini problem of Poisson's equation

15h00 Talk 8: **P. Chodkiewicz** - Modeling of Vacuum Packed Particles with DEMR

15h20 Talk 9: **A. Ismail** - Performance of Multistage Regenerative Heat Exchanger Using Different Magneto-caloric Materials: Analytical Modeling and behavior analysis

15h40 Cultural event in city center - End of day

Day 2

Session 4 (chair: N. Kacem)

09h00 Invited 3 **Olivier Bareille** - Material and process based structural health monitoring for large structures' surveillance

09h40 Talk 10: **K. Aouali** - Nonlinear dynamics of a mode-localized electromagnetic device: a way to enhance the performances of vibration energy harvesting

10h00 Talk 11: **T. Rabenimanana** - Model of mode localized mass sensor using two coupled mems cantilevers with different lengths

10h20 Talk 12: **O. Jarzyna** - Bipedal walking pattern generator for a lower limb exoskeleton

10h40 Coffee Break + Poster Session

12h30 Lunch

14h00 Conference closing (chair and co-chairs)

End of conference