

# Main contributions

This work has led to several contributions, with the principal ones listed here below :

- Conferences and proceedings :
  - F. Loix and O. Magotte and H. Roger and F. Dupret, A 3D numerical modelling of the RTM and SRIM processes, 2002, M. Pietrzyk and Z. Mitura and J. Kaczmar, 307-310, ESAFORM, Kraków, Avril.
  - F. Loix and F. Dupret, Numerical Modelling of liquid moulding processes, The 6th International ESAFORM Conference on Material Forming, 2003, Nuova Ipsa Editore srl, 835-838, Salerno, Avril. (*keynote lecture*)
  - F. Loix and V. Thibaut and F. Dupret, Micro-macro modelling of permeability and mechanical dispersion in a porous medium, 2005, D. Banabic, Volume 1, The publishing house of the romanian academy, Cluj-Napoca, Romania, Avril. (*keynote lecture*)
  - F.M.F. Simoes and B. Loret and F. Loix, Finite element simulations of physico-chemical couplings in articular cartilage, II International conference on computational bioengineering, 2005, H. Rodrigues et al., 771-780, Lisbon, Portugal, September.
  - F.M.F. Simoes and B. Loret and F. Loix, Análise pelo método dos elementos finitos de fenómenos de interacção físico-química em cartilagens articulares, 2005, Encontro, 1, Biomecânica, Martinchel, Portugal.
- Articles in preparation :
  - F. Loix and F.M.F. Simoes and B. Loret, Articular cartilage with intra- and extrafibrillar waters. II- Simulations of transient salt replacements by the finite element method, 2006.
  - F. Loix and V. Thibaut and F. Dupret, Micro-Macro Modelling of Permeability and Mechanical Dispersion in a Porous Medium : Comparison with Experimental Measurements, International Journal of Forming processes : Special Issue, 2006.

- Academic contributions (management of course exercises and applications) :
  - MECA2901 : Mécanique des Milieux Continus, Prof. F. Dupret (edition of an exercise textbook, 2004) ;
  - MECA2620 : Etudes des phénomènes de transfert dans les procédés industriels, Prof. F. Dupret.