

Open TURNS Users Day #7

Friday 20 June 2014 – Group University – EDF Chatou

9h30 – 10h: Reception at the **Group University**

10h – 11h : Open TURNS presentation

- Introduction: A. Caruso (EDF R&D)
- Open TURNS : Content and Consortium
- New features of the releases 1.3 and 1.4 (to come) :
 - scientific new features
 - technologic new features
 - Documentation
- Development perspectives – New partners?

11h – 12h30 : Open TURNS and the Kriging Approach

- « The Kriging Approach to Optimization » (1h) : Rodolphe Le Riche (CNRS, Mines de Saint Etienne)
- « Open TURNS v1.3 and the Kriging Approach » (30') : Julien Schueller (PhiMECA)

12h30 – 14h : lunch

14h - 16h30 : Presentations of studies using Open TURNS

- « Bayesian calibration with Open TURNS » (30') : Guillaume Damblin (EDF R&D)
- « Open TURNS and stochastic fields - Simulation of synthetic misorientation maps of alloy 600 specimens » (30') : Géraud Blatman (EDF R&D)
- « Complex probabilistic modelling for electromagnetism shield » (30') : Sofiane Haddad (IMACS)
- « Bayesian updating for degradation prediction » (30') : Rodrigue Décatoire (PhiMECA)
- « Statistical tolerancing taking into account flexibility » (30') : Hugo Falgarone (Airbus Group)

16h30 – 17h : Discussion