SCIENCESPRINGDAY



Materials Science Department

Prof.

Structural Materials







Francisco Manuel Braz Fernandes

Mechanical Engineering (IST)
DEA Métallurgie (Orsay)
PhD Materials Sci &
Engineering (Ecole Mines
Nancy)
Habillitation in Physical
Metallurgy (UNL)
Present position:
Associate Professor

Objectives

- Heat treatment of metal alloys
- · Shape memory alloys
- Physical metallurgy
- Structural characterization

Methodology

- In situ X-ray diffraction (lab sources and synchrotron radiation)
- · Mechanical testing
- · Thermal analysis

Expected Results

- New Functional Materials
- Functionally Graded Materials
- Structural Monitoring.
- Self-Healing Materials













