

Dr. Alexandre MUSSI

ASSISTANT PROFESSOR at the University of Lille 1

EDUCATION

- 2000-2003 **PhD** in Material Sciences.
Institut National Polytechnique de Grenoble, INPG, Grenoble.
- 1999-2000 **Master's Degree 2** in Material Sciences (**DEA "Science et Génie des Matériaux"**).
Institut National Polytechnique de Grenoble, INPG, Grenoble.
- 1997-2000 **French Diploma of Physical Engineering (Master's Degree** in Physics).
Ecole Nationale Supérieure d'Electrochimie et d'Electrometallurgie de Grenoble, ENSEEG, Grenoble.

RESEARCH ACTIVITIES

- Sept.2007-present **Lecturer**-----Lille, France
Plasticity of mantle and subduction zone minerals. Experimental studies by transmission electron microscopy: dislocation tomography, weak-beam dark-field and large angle convergent beam electron diffraction.
UMET Lab. (Unité Matériaux et Transformations), Lille 1 University, CNRS-UMR 8207.
- Nov. 2006-Aug. 2007 **Post-Doctoral**-----Poitiers, France
Careful study of the metallic nano-objects interfaces for oxide substrate (catalysis) by high resolution electron microscopy, electron energy loss spectroscopy and Z-Contrast.
PPRIME Institut (Recherche et Ingénierie en Matériaux Mécanique et Energétique pour les Transports, l'Energie et l'Environnement), Poitiers University, UPR 3346, and IC2MP Institut (Institut de Chimie des Milieux et Matériaux de Poitiers), Poitiers University, UMR-CNRS 7285.
- Nov. 2004-Oct. 2006 **Post-Doctoral**-----Poitiers, France
Plasticity mechanism understanding near the brittle to ductile transition according to the impurity content in α -SiC.
PPRIME Institut (Recherche et Ingénierie en Matériaux Mécanique et Energétique pour les Transports, l'Energie et l'Environnement), Poitiers University, UPR 3346.
- Oct. 2003-Aug. 2004 **Teaching Assistant**-----Grenoble, France
Stability of the bulk metallic glass $Zr_{41}Cu_{12.5}Ni_{10}Ti_{14}Be_{22.5}$ (Vitrallloy 1).
SIMAP Lab. (Sciences et Ingénierie des Matériaux et Procédés), Physic of Metal group, Grenoble University, UMR 5266
- Oct. 2000-Sept. 2003 **PhD**-----Grenoble, France
Grain refinement study of a magnesium alloy microstructure using thermo-mechanical treatments (sever plastic deformation) and study of the resulting mechanical property increase.
SIMAP Lab. (Sciences et Ingénierie des Matériaux et Procédés), GPM2 group (Génie Physique et Métallique des Matériaux), Grenoble University, UMR 5266.