Research opportunities in Grenoble, France
23 May – 29 July 2011

@ MINATEC

The NBIC will fund several students to work at MINATEC in Grenoble, France this summer as part of a collaborative research exchange program. Please see the details below describing three research center/groups that will host University of Pennsylvania students. The MINATEC website is located at: http://www.minatec.com/en

LABORATORY OF MATERIALS AND GENERAL PHYSICS
Research at LMGP is dedicated to material sciences and is concentrated on studies related to intrinsic properties of materials, their structure and the processing of crystals or thin films for applications in the fields of Information Technologies, Energy or Health. see: LMGP site

FMNT/LMGP, IMMB team – 2-3 positions for UPENN students
✓ F. Bruckert, M. Weidenhaupt:
   Material surface properties and protein aggregation

✓ C. Picart,:
   Micropatterned layer-by-layer films to control cell differentiation

✓ C. Picart:
   Interactions between proteins and biomimetic lipid membranes

INSTITUTE FOR NANOSCIENCE AND CRYOGENICS
INAC’s expertise specially encompasses nanomaterials, micro-nanophotonics, spintronics, nanomagnetism, superconductivity, nanoelectronics, theory and simulation, biochips, DNA damages. see: INAC site


✓ Electrochemically triggered electronic transport in self-assembled organic semiconductor/DNA hybrids

✓ Photo-Induced charge carriers in bioinspired and self-organized Donnor/Acceptor heterojunctions

LETI
At the heart of the MINATEC innovation campus, Leti is an applied research center for microelectronics and for information and healthcare technologies. see: LETI site

F. Vinet - 1 position for UPENN students
✓ Electrochemically triggered electronic transport in self-assembled organic semiconductor/DNA