



The 2<sup>nd</sup> International Summer School on "Energy and Environmental science"

Organized by

The International Relations Office at UPMC

And funded by

MATISSE Labex and TOTAL

The **Laboratory of Excellence (LABEX) Matisse** - materials, interfaces, surfaces, environment - aims to gain an understanding of the basic principles governing the organization of matter in order to develop new materials with remarkable properties in the fields of energy, health and the environment.

**MATISSE** is offering xxx grants for two weeks "Summer School" at M1 level.

**Topics:** The UPMC Summer School program is specially focused on new energy, renewable energy, environmental materials, energy materials and environmental science: Below, the titles of the courses:

1. *Energetic Challenges for the XXI<sup>th</sup> century*
2. *Fuel Cell Technology and their future in the energetic landscape*
3. *Photovoltaic Energy*
4. *"Biocatalysis: from remediation with enzymes to novel green chemical processes"*
5. *New challenges for heterogeneous catalysis in the field of energy supplies.*
6. *From hydrocarbon feedstock's to biomass valorization*
7. *Interactions between minerals and microorganisms: mechanisms and environmental implications*
8. *Environmental Biogeochemistry –Water issues*
9. *Nuclear Energy: The ITER Reactor*
10. *CNES: Observation of environment and earth resources from space*
11. *Petrogeochemistry*
12. *NMR and MRI for environmental science*
13. *Removal of heavy metals in soils and water*

*In addition to the lectures, the program includes several visits to world class research laboratories and facilities. UPMC students can join the cultural program proposed to foreign students.*

**Language:** Courses are taught in English

**Period and location:** Paris at UPMC (Jussieu campus) from the 24<sup>th</sup> of June to the 5<sup>th</sup> of July 2013.

**Eligibility:** the summer school is open to students that fulfill the following requirements:

- To have achieved the first year of the Master Course in chemistry and environmental science
- To have a good knowledge of English (Level B2).

**Applications and admission criteria:** The selection procedure takes place within a framework common to the MATISSE board and the International Relation Department.

To apply, candidates have to send by email a CV (one page), a motivation letter in English (one page) and a copy of student card by the 21<sup>th</sup> of May to Prof. Antoine GEDEON: antoine.gedeon@upmc.fr