

2nd European COST 540 WG1 Seminar, November 12, 2007
LIGHT SOURCES AND NEW NANOSTRUCTURES FOR PHOTOCATALYSIS
Paul Sabatier University Toulouse, 118 route de Narbonne

ORGANIZERS

Geoges Zissis & Marie-Thérèse Maurette, University of Toulouse, France
Lubomir Spanhel, University of Rennes, France

Morning Session, moderation: Georges Zissis

- 9h00- 9h15** **Opening address by French COST 540 representatives**
Georges Zissis and Lubomir Spanhel
- 9h15-10h00** **Optical irradiation sources for application in photochemistry and photocatalysis**
Marie-Thérèse Maurette, IMRCP Toulouse, France
- 10h00-10h20** **Lampe influence on the photoreactor design and performance**
Benoît Kartheuser, CERTECH, Belgium
- 10h20-10h40** **Dielectric Barrier Lamps for photocatalysis, Photochemistry and other photoinduced applications**
Sounil Bhoslé, Georges Zissis, University of Toulouse, France
- 10h40-11h00** **Coffee break and discussions**
- 11h00-11h20** **Degradation of organic compounds in phase gas by photocatalysis: medium pressure mercury arc and excimer lamp**
Florence Benoit-Marquié, University of Toulouse, France
- 11h20-11h40** **Influence of irradiation in gas-phase photoreactors: selection of a support**
Raquel Portela, Benigno Sánchez, Juan Coronado, Silvia Suárez, CIEMAT, Spain
- 11h40-14h00** **Lunch break**

Afternoon Session, moderation: Lubomir Spanhel

- 14h00-14h20** **Overview of the ISO draft "Ultraviolet Light Source for Testing Photocatalytic Materials"**
Shu Takeshita, Tokai University, Japan
- 14h20-14h40** **Irish activities in developing novel nanomaterial photocatalysts and test methods**
Suresh C. Pillai, CREST, Dublin, Ireland
- 14h40-15h00** **From molecules to coatings: New approaches for self-cleaning surfaces**
Ralf Dillert, University of Hannover, Germany
- 15h00-15h20** **Soft chemistry route to titanium dioxides: nanolayers, nanoribbons, nanofibers and its applications to photocatalysis and energy storage**
Luc Brohan, University of Nantes, France
- 15h20-16h00** **Coffee break and discussions**
- 16h00-16h20** **Vis-light active N-doped TiO₂ grown by CVD on steel: doping-nanostructure-photocatalysis correlations**
Francis MAURY, University of Toulouse, France
- 16h20-16h40** **Stabilized Langmuir-Blodgett films of nanoparticles for photocatalytic application**
Lívía Naszályi and Nóra Ábrahám, University of Budapest, Hungary
- 16h40-17h00** **Photocatalyst preparation by carbon doping of TiO₂**
Antonin Morawski, Madgalena Janus, Beata Tryba, University of Szczecin, Poland
- 17h00-17h20** **Comparative photocatalytic tests on superhydrophilic nanostructured "Zn_xTi_yO_z" films**
Galina Krylova, Martin Surynek, Lubomir Spanhel, University of Rennes, France
- 17h20-17h30** **Concluding remarks by COST 540 Chairman Frantisek Peterka**