

## Journées scientifiques AMADEus

Mardi 18 juin 2013 > 9h00 – 18h00

Mercredi 19 juin 2013 > 9h00 – 14h00

Lieu : AEROCAMPUS Aquitaine – 1 Route de Cénac – 33 360 Latresne

## Programme

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### ► Mardi 18 juin 2013

9h00-10h30 TRC1 - Organic electronics

► *Synthesis and formulation of oxide particles with dyes and semiconducting polymers and oligomers: Influence of the interfacial properties to the electrooptic performance and the life time of the devices (WP1a) - **Christophe Pejoux***

► *Synthesis of semiconducting polymers and oligomers: screening of the effect of transition metals on final electro-optic properties (WP1a) - **Ozlem Usluer***

► *Ink formulation and processing procedures of electrooptic materials based on organic/inorganic composites: a semiconducting block copolymer approach (WP1b) - **Shenghong Yao***

► *Investigation of interfacial effects and nanostructuration on the electrical and electronic properties of organic materials (WP1c) - **Yan-Fang Chen***

10h30 - Pause café

11h00-12h30 TRC3 - Biocooperative and bioactive materials

► *Introduction - **Alexander Kuhn***

► *Design and optimization of enzymatic biofuel cells (WP3b2) - **Marine Cadet***

► *Development of electrode architectures for miniaturized biofuel cells and biosensors (WP3a-b1-b2) - **Aleksandar Karajic***

► *Smart devices design by grafting multifunctionalized molecules bearing anti-inflammatory agents and molecules able to enhance neovascularization (WP3a) - **Guillaume Le Saux***

12h30 - Déjeuner

14h00-15h30 TRC2- Nanostructured metamaterials

- ▶ *Production and structural characterization of inorganic spherical and calibrated micro-resonators for THz frequencies (WP2a) - **Ahmad Kassas / Valérie Vigneras***
- ▶ *Meta-atoms for Optical Magnetism - **Aurélie Le Beulze***
- ▶ *Electrostatic assembly of plasmonic nanoresonators through the use of microfluidic chips (WP2a) - **Jacques Leng***
- ▶ *Experimental and theoretical study of the optical properties of nanostructured metal-dielectric composites (WP2c) - **Alexandre Baron***

15h30 - Pause café

16h00-17h30 TRC3 - Biocooperative and bioactive materials

- ▶ *In vitro evaluation of the host response to drug delivery device components under study (WP7) **Annabelle Tanga***
- ▶ *Whole-cell bioelectronic sensor (WP3b1) - **Eileen Pedraza***
- ▶ *Feedback from the Erdyn market study (WP3c) - **Alexander Kuhn***
- ▶ *Electrochemically responsive containers for in vivo drug delivery (WP3b3) – **Valerie Ravaine***

18h00 – Visite du site de Aérocampus Aquitaine

20h00 - Diner

▶ **Mercredi 19 juin 2013**

9h00-10h30 TRC1- Organic electronics

- ▶ *Organic Electronics for the harvesting and conversion of thermal energy (WP1d1) - **Bryan Kuropatwa***
- ▶ *Formation and characterization of soft piezoresistors and soft piezocapacitors for MEMS (WP1d2) - **Damien Thuau***
- ▶ *The introduction of the microfluidics and supercritical methodologies to the manufacturing of functional electrooptic materials (WP6– Manufacturing of the Future) - **Ricardo Couto***

10h30 - Pause café

11h00-12h30 TRC2- Nanostructured metamaterials

- ▶ *Template-assisted synthesis of plasmonic nano-helices (WP2b) - **Emilie Pouget***
- ▶ *Controlled self-assembly of plasmonic nanoparticles by biomolecular recognition (WP2b) - **Hélène Gehan***
- ▶ *Acoustic Tunable Metamaterials: ultrasonic experiments (WP2d2) - **Thomas Brunet***

12h30 - Déjeuner

14h00 Conclusions

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