

Electronic interactions in supramolecular systems and nanomaterials

Groupe de contact du FNRS
Louvain-la-Neuve

September 18th 2009

PROGRAM

8.30 Registration

9.00 *"Light-Triggered Nanostructured Materials and Nanoassemblies for Potential Biomedical Applications"*

S. Sortino

Dipartimento di Scienze Chimiche, Università di Catania, Italy

10.00 *"Modeling Polymer Dielectrics/Pentacene Interfaces: On the Role of Electrostatic Energy Disorder on Charge Carrier Mobility"*

N. G. Martinelli^{1,*}, L. Muccioli², C. Zannoni², J. Cornil¹

1 Laboratory for Chemistry of Novel Materials, University of Mons, Place du Parc 20, B-7000 Mons, Belgium. 2 Dipartimento di Chimica Fisica e Inorganica and INSTM, Università di Bologna, Viale Risorgimento 4, I-40136 Bologna, Italy

10.20 Coffee break

10.50 *"Unravelling excited state dynamics in P3HT, P3EO4T and OPTV polymers"*

Eduard Fron^a, Hanne Dilkien^b, Dirk Vanderzande^b, Mark

Van der Auweraer^a

a) Department of Chemistry and Institute for Nanoscale Physics and Chemistry, Katholieke Universiteit Leuven, Celestijnenlaan 200F, 3001 Heverlee, Belgium

b) Department of Chemistry, UHasselt, Campus Diepenbeek, Agoralaan – Gebouw D, 3590 Diepenbeek, Belgium

11.10 *"Theoretical investigation of the nonlinear optical responses of GFP-like proteins"*

Marc de Wergifosse[†], Edith Botek[†] and Benoît Champagne[†], Evelien De Meulenaere^{a,b,c}, Inge Asselberghs^b, Jos Vanderleyden^{a,c} and Koen Clays^{b,c}

† Laboratoire de Chimie Théorique Appliquée, Facultés Universitaires Notre-Dame de la Paix (FUNDP), Rue de Bruxelles, 61, B-5000 Namur (Belgium), a Centre of Microbial and Plant Genetics, University of Leuven, Kasteelpark Arenberg 20, B-3001 Leuven (Belgium), b Department of Chemistry, University of Leuven, Celestijnenlaan 200D, B-3001 Leuven (Belgium), c Institute for Nanoscale Chemistry and Physics, University of Leuven

11.30 *"Photo-induced electron transfer between Ru(II) complexes and biomolecules"*

Mateusz Rebarz, Jonathan Ghesquiere, Cécile Moucheron, Andrée Kirsch-De Mesmaeker

Chimie Organique et Photochimie, Université Libre de Bruxelles CP 160/08, 50 Avenue Franklin Roosevelt, B-1050 Bruxelles, Belgium

11.50 *"Photoreaction between a Ru(II) complex and tryptophane assisted by oligonucleotide."*

Jonathan Ghesquière, Cécile Moucheron et Andrée Kirsch-De Mesmaeker
Chimie Organique et Photochimie, Université Libre de Bruxelles (U.L.B.),
CP 160/08, 50 Avenue F.D. Roosevelt, 1050 Bruxelles, Belgium

12.10 Lunch

13.30 *“Biomimetic approaches to artificial photosynthesis : Controlling coupled electron transfers”*

Leif Hammarström

Department of Photochemistry and Molecular Science, Uppsala University, Box 523, SE-751 20 Uppsala, Sweden

14.30 *“Surface-templated engineering of porphyrin-based supramolecules”*

Claudia Aurisicchio,^a Daniel Heim,^b Knud Seufert,^b Willi Auwärter,^b Johannes V. Barth^b and Davide Bonifazi^{a,c}

a Department of Chemistry, Laboratoire de Chimie Organique et des Matériaux Supramoléculaires (COMS), Facultés Universitaires Notre-Dame de la Paix (F.U.N.D.P.), Rue de Bruxelles 61 Namur, Belgium; b Technical University of Munich, Physics Department E 20, Munich, Germany; c Università degli studi di Trieste, Dipartimento di Scienze Farmaceutiche, Trieste, Italy.

14.50 Coffee break

15.20 *“Energy transfer in doped emission layers of OLED’s”*

Lesley Pandey, Mark van der Auweraer

Department of Chemistry, Laboratory of Photochemistry and Spectroscopy, and INPAC - Institute of Nanoscale Physics and Chemistry, Katholieke Universiteit Leuven, Celestijnenlaan 200F, 3001 Heverlee, Belgium

15.40 *“IrisFP: a promising new type of photoactivatable fluorescent biomarker for nanoscopy”*

Virgile Adam^{1,2}, Mickaël Lelimosin³, Susan Boehme⁴, Philippe Carpentier³, Guillaume Desfonds², Karin Nienhaus⁴, Martin J. Field³, Joerg Wiedenmann⁵, Sean McSweeney², G. Ulrich Nienhaus⁴, Dominique Bourgeois^{2,3}

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5National Oceanography Centre, University of Southampton, Southampton SO14 3ZH, United Kingdom

16.00 End