

The Third ASICEF Workshop on Interdisciplinary Research Topics

ASICEF 3^{ème} Journée Scientifique Interdisciplinaire

全法中国科技工作者协会第三届交叉科学研讨会

Organized by Association of Chinese Scientists and Engineers in France (ASICEF)

Date: 24th October 2009, between 9:00-18:00

Address: Education Service of Chinese Embassy in France, 29 rue de la Glacière, 75013 Paris

(Close to the Metro line N°6, stop at Glacière)

Preliminary Program

09:00-09:15 Registration

09:15-09:30 Opening ceremony

Session chairman: Juan Xie

Opening address

朱小玉 公使衔参赞

Speech

董长治 全法中国科技工作者协会理事长

Session A. Molecular Sciences

Session chairman: Juan Xie

09:30-09:55 Jieping Zhu, Directeur de Recherche au CNRS

ICSN, CNRS, Gif-sur-Yvette

Synthèse totale de l'ecteinascidine 743, un nouveau médicament anticancéreux

09:55-10:20 Min-Hui Li, Chargée de Recherche au CNRS

Institut Curie, CNRS UMR168, Paris

Liquid crystal polymer vesicles and their bursting induced by light

10:20-10:35 Bo Luo, M. Sollogoub, Y. M. Zhang, Y. Blériot

Université Paris VI, Institut Parisien de Chimie Moléculaire

Access to new five, six and bicyclic iminosugars mimicking natural products through ring isomerization of seven-membered-ring azepanes

10:35-10:50 Yanchun Gong, J. Xie

ENS de Cachan, PPSM, CNRS UMR 8531

Synthesis of oligosaccharide mimetics with glycoaminoxy acids

10:50-11:05 Yanyan Zhang, Y. M. Zhang

Université Paris VI, Institut Parisien de Chimie Moléculaire

Study towards the synthesis of 6-deoxy- Lewis^x pentaosyl glycosphingolipid

11:05-11:40 COFFEE BREAK & POSTER SESSION

Session B. Mathematics and computer science

Session chairman: Kuan Fang Ren

- 11:40-12:05** **Hao Li**, Directeur de Recherche au CNRS
Laboratoire de Recherche en Informatique, Université Paris-sud 11
Some coloring problems in graph theory
- 12:05-12:30** **Weisheng Zhao**, Chargé de Recherche au CNRS
CEA LIST, Embedded Computing Laboratory, Saclay, France
Future computing paradigm: magnetic logic
- 12:30-13:30** **Buffet Lunch**

Session C. Physics and Nanosciences

Session chairman: Lingai Luo

- 13:30-13:55** **Zhaozhong Wang**, Directeur de Recherche au CNRS
Laboratoire de Photonique et de Nanostructures, CNRS
Quantum impurity state and local electronic properties of semiconductor nanostructure
- 13:55-14:20** **Xiaoping Jia**, Professeur des Universités
Université Paris-Est, LPMDI, CNRS UMR 8108
Sound propagation in granular materials and geophysical applications
- 14:20-14:35** **Yijia Yuan**, K. F. Ren, C. Roze, T. Girasole
UMR 6614 / CORIA, CNRS - Université & INSA de Rouen
Extension de l'optique géométrique appliquée à la diffusion de la lumière par un sphéroïde
- 14:35-15:15** COFFEE BREAK & POSTER SESSION

Session D. Energies and Resource

Session chairman: Zhaozhong Wang

- 15:15-15:40** **Lingai Luo**, Professeur des Universités
Laboratoire Optimisation de la Conception et Ingénierie de l'Environnement, ESIGEC-Université de Savoie
Stockage de l'énergie solaire inter saisonnier
- 15:40-15:55** **Jiesheng Min**, F. Baillot
UMR 6614 / CORIA, CNRS - Université & INSA de Rouen
Stability and transition behaviour of non-premixed CH₄/Air flames in the presence of a diluent (CO₂/N₂/Ar) addition

Session E. Life sciences

Session chairman: Hao Li

- 15:55-16:20** **De-Li Shi**, Directeur de Recherche au CNRS
Groupe de Biologie Expérimentale, Laboratoire de Biologie du Développement, CNRS UMR 7622, Université Paris 6

Structural-functional analysis of Wnt signaling pathway components and screening of small-molecule antagonists

- 16:20-16:35** **Xiaoliang Fan**, P. Brézillon
Laboratoire d'Informatique de Paris 6, Université Paris VI
Context-oriented scientific workflow systems and its application on virtual screening for H5N1 virus
- 16:35-17:00** **Yong Chen**, Directeur de Recherche au CNRS
Ecole Normale Supérieure, CNRS-ENS-UMPC, France ;
Kyoto University, Institute for Integrated Cell Material Sciences, Japan
Material patterns and cellular adaptation
- 17:00-17:15** **Jian Shi**, L. Wang, E. Secret, L. Liu, Y. Chen
Ecole Normale Supérieure, CNRS-ENS-UPMC, France;
Kyoto University, Institute for Integrated Cell Material Sciences, Japan
Manipulation of electrospun nanofibers: from techniques to cell biology applications
- 17:15-17:30** **Closing remarks:** Zhiqin Zhang, 公使街参赞
Poster prize: Changzhi Dong

POSTER PRESENTATIONS:

1. Synthesis of oligosaccharide mimetics with glycoaminoxy acids
Y. Gong, J. Xie
ENS de Cachan, Photophysique et Photochimie Supra- et Macromoléculaires, CNRS UMR 8531, France
2. High resolution and hybrid patterning for single cell attachment
J. Hu,^a J. Shi,^{a,b} F. Zhang,^a X. Li,^a L. Lei,^a L. Wang,^a L. Liu,^b Y. Chen,^{a,b}
^a*Ecole Normale Supérieure, CNRS-ENS-UPMC, France* ; ^b *Kyoto University, Institute for Integrated Cell Material Sciences, Japan*
3. Nano-objets self-assembled by amphiphilic liquid crystal block copolymers in aqueous solution
L. Jia,^{a,b} A. Cao,^b M.-H. Li^a
^a *Institut Curie, CNRS UMR168, Paris, France* ; ^b *Laboratory of polymers Materials, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences*
4. Optofluidics: from technology to applications
H. Li, L. Lei, Y. Chen
Ecole Normale Supérieure, CNRS-ENS-UPMC, France ; *Peking University, Centre for Microfluidics and Nanotechnology, 100871 Beijing, China*
5. Alternative electroporation on a chip by using a constant DC voltage
X. Li,^{a,b} Y. Chen^a
^a*Ecole Normale Supérieure, CNRS-ENS-UPMC, France*; ^b*Department of physics, East China Normal University, Shanghai, China*
6. Electron pathway in native photosynthetic membrane using AFM
L.-N. Liu,^a K. Duquesne,^b J. N. Sturgis,^b S. Scheuring^a
^a *Institut Curie, Equipe INSERM Avenir, CNRS UMR168, Paris, France* ; ^b *UPR-9027 LISM, IMM, CNRS-Aix-Marseille Université, France*
7. Microfluidic devices uncoupling nucleation and crystal growth in protein crystallization
M. Lounaci,^a P. Rigolet,^b **Y. Chen**^a
^a*Ecole Normale Supérieure, CNRS-ENS-UPMC, France* ; ^b *Université Paris-Sud 11, Faculté de Pharmacie, Châtenay-Malabry, 92296, France*
8. Access to new five, six and bicyclic iminosugars mimicking natural products through ring isomerization of seven-membered-ring azepanes
B. Luo, M. Sollogoub, Y. Zhang, Y. Blériot
UPMC, Institut Parisien de Chimie Moléculaire, UMR CNRS 7201
9. One-pot synthesis of 1,4-disubstituted 1,2,3-triazoles from aldehyde and amine
S. Maisonneuve, **J. Xie**
ENS de Cachan, Photophysique et Photochimie Supra- et Macromoléculaires, CNRS UMR 8531, France
10. Food Quality and Nitrites Content in Toona vegetables
L. Sun,^a Z.-N. Meng,^b **X. Han**^c
^a*Shandong Forest Science and Technology Institute, Jinan, China*; ^b*College of Life Science, Shandong University, Jinan, China*; ^c*IRIT-ARI, 202Bis, Rue des Fontaines, 31300 Toulouse, France*
11. Ultra high density nanotubes arrays for cell culture and gene delivery
J.-H. Tian,^a J. Hu,^a Y. Chen,^a D. He,^b J. Bai^b
^a*Ecole Normale Supérieure, CNRS-ENS-UPMC, France* ; ^b*Ecole Cent Paris, UMR8579, CNRS, LMSSMAT, F-92290 Chatenay Malabry, France*
12. Alliages granulaires de Cu₈₀Fe₁₀Ni₁₀ à effet magnéto-résistance géant, étude micro-structurale par Microscopie électronique en transmission à filtrage d'énergie et EDX
G. Y. Wang,^a S. Cazottes,^b P. Ochin,^a A. Fnidiki,^b D. Lemarchand,^b F. Danoix^b

^aICMPE, UMR CNRS 7182, France ; ^bGroupe de Physique des Matériaux, GPM, UMR CNRS 6634, 76801 Saint-Etienne du Rouvray, France

13. Comparing the optical properties of gold versus silver ultra-fine nanoparticles assembled in 2D arrays by using the DDA approach

P. Yang, H. Portalès, M.-P. Pileni

Université Pierre et Marie Curie, UMR 7070, LM2N, Paris, France

14. Electrochemical detection of glucose in microfluidic devices

F. Zhang, J. Tian, Y. Chen

Ecole Normale Supérieure, CNRS-ENS-UPMC, France

15. Study towards the synthesis of 6-deoxy- Lewis^x pentaosyl glycosphingolipid

Y. Y. Zhang, Y. M. Zhang

UPMC, Institut Parisien de Chimie Moléculaire, UMR CNRS 7201

16. Cell imprinting and reversed cell imprinting for AFM imaging of cells cultured on patterned surfaces

X. Zhou,^{a,b} Y. Chen^a

^a*Ecole Normale Supérieure, CNRS-ENS-UPMC, France* ; ^b*Department of physics, East China Normal University, Shanghai, China*