The Third ASICEF Workshop on Interdisciplinary Research Topics

ASICEF 3ème 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
LOCIE-CNRS-Université de Savoie, Polytech'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 CH_4/Air flames in the presence of a diluent (CO_2/N_2/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 mall-molecule antagonistes

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, 公使衔参赞
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, UMR 8640, 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, UMR 8640, France ; Peking University, Centre for Microfluidics and Nanotechnology, 100871 Beijing, China
5. Alternative elcetroporation on a chip by using a constant DC voltage
   X. Li,[a,b] Y. Chen[a]
   [a]Ecole Normale Supérieure, UMR 8640, 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, URM 8640, 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, UMR 8640, France ; [b]Ecole Centrale Paris, UMR8579, CNRS, LMSSMAT, F-92290 Chatenay Malabry, France

12. Alliages granulaires de $Cu_{80}Fe_{10}Ni_{10}$ 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]
[a]*ICMPE , UMR CNRS 7182, France ;* [b]*Groupe 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 nanoparticules 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, UMR 8640, Paris, 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,UMR 8640, Paris,, France ;* [b]*Department of physics, East China Normal University, Shanghai, China*

17. Exceptional Mechanical Properties of Nanostructured Hybrid Materials
G. HU,[a] C. Creton,[a] F. Rodriguez,[b] L. Rozes,[b] C. Sanchez[b]
[a]*Laboratoire de Physico-Chimie des Polymères et Milieux Dispersés, UMR 7615 CNRS-UPMC-ESPCI, 10, Rue Vauquelin, Paris, France ;* [b]*Laboratoire de Chimie de la Matière Condensée, UMR CNRS 7574, Université P. et M. Curie, 4, Place Jussieu, 75252, Paris, France*

18. Microfluidic shear force regulation of AcSDKP association with endothelial cell cytoskeltal proteins like F-actin
Li Wang[a,c], **Jianmiao LIU**[b], Joanna Wdzieczak-Bakala[b] and Yong Chen[a,d]
[a)] *Ecole Normale Supérieure, UMR 8640, Paris, France,* [b)] *ICSN, CNRS, Gif-sur-Yvette, France,* [c)] *Department of Chemistry, Wuhan University, China,* [d)] *iCeMS,Kyoto University, Japan*