

The First ASICEF Workshop on Interdisciplinary Research Topics

ASICEF 1^{ère} Journée Scientifique Interdisciplinaire

全法中国科技工作者协会第一届交叉科学研讨会

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

Date: 14th May 2006, 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

REGISTRATION: 8:30-9:00

Opening address: 9:00-9:30

1. Opening address
白章德
Ambassade de la République Populaire de Chine en France, Service d'Education
2. 国家十五科技发展规划介绍
孙玉明
Ambassade de la République Populaire de Chine en France, Service Scientifique et Technique

ORAL PRESENTATIONS

Session A. Mathematics & Applied Sciences, 9:30-10:30

Session chair: Yongmin ZHANG

3. 图论学科研究的几个重要问题
李皓 (Hao Li)
Laboratoire de Recherche en Informatique, Université Paris-sud 11, 91405-Orsay, France
兰州大学数学与统计学院, 中国甘肃兰州
4. Synchrotron Light Source SOLEIL
Ti RUAN
Synchrotron SOLEIL
5. The Chinese Electricity Industry - Where Do We Stand
Yanhua ZHANG
GREMAQ, University of Toulouse and Research Centre for Competition and Regulation, CASS
6. Introduction to computational chemistry and chemoinformatics
Bo Tao FAN
ITODYS, Université Paris 7, 1 rue Guy de la Brosse, 75005 Paris

COFFEE BREAK & POSTER SESSION: 10:30 – 11:00

Session B. Physics and Nanosciences, 11:00-12:30

Session chair: Yong CHEN

7. 纳米科学和经典科学的区别
Zhao Zhong WANG
Laboratoire de Photonique et de Nanostructures, CNRS, 91460 Marcoussis, France
8. Importance of transmission electron microscopy in nanoscience and technology
K.Yu-Zhang
*Laboratoire de Microscopies et d'Etude de Nanostructures (LMEN), Université de Reims
Champagne-Ardenne, B.P. 1039 - 51687 Reims cedex*
9. Nanoelectronics: towards quantum ballistic field effect transistors: design and experimental results
Yong JIN
Laboratoire de Photonique et de Nanostructures, CNRS, 91460 Marcoussis, France
10. Nanotubes de carbone et nanocomposites
JinBo BAI, Directeur de recherche CNRS
*Laboratoire de Mécanique des Sols, Structures et Matériaux
CNRS UMR 8579, Ecole Centrale Paris, 92295 Châtenay Malabrys, France*
11. 小粒子光学测量技术
Kuan Fang REN
*UMR 6614 / CORIA, CNRS - Université & INSA de Rouen, Av. de l'Université, PB 12,
76801 Saint Etienne du Rouvray*
12. A Secure Dynamically FPGA Based on Magnetic Memory
W. ZHAO, E.Belhaire, C.Chappert
*Department NanoSpinTronique, Institut d'Electronique Fondamentale, Université Paris
11/CNRS, France*

Buffet Lunch: 12:30 – 13:30

Session C. Life sciences, 13:30-15:00

Session chair: Bo tao FAN

13. Food Metabonomics
Han XU
*Institut de la Recherche Interdisciplinaire de Toulouse, IRIT-ARI, 202 Rue des Fontaines,
31300 Toulouse, France.*
14. Structural-functional analyses of signal transduction pathway for high throughput drug screening
De-Li SHI
*Groupe de Biologie Expérimentale, Laboratoire de Biologie du Développement, CNRS
UMR 7622, Université Paris 6, 9 quai Saint-Bernard, 75005 Paris*
15. Histone acetylation homeostasis and histone code required for plant gene expression
Dao-Xiu ZHOU
*Institut de Biotechnologie des Plantes, UMR8618, CNRS
Université Paris-sud XI, 91405 Orsay*
16. Plant Genomics and its applications to plant breeding - an overview of current state and future perspectives
Yun Hai LU
Plant Genomics Research Unit, URGV-INRA, 2, rue Gaston Crémieux, CP5708, 91057

Evry Cedex

17. Stable isotope probing analysis of microorganisms involved in organic metabolism in thermophilic anaerobic solid waste degradation
Tianlun LI, L. Toffin, L. Mazeas and T. Bouchez
Hydrosystems and bioprocesses research unit, Cemagref, parc de Tourvoie, BP 44, 92163 Antony cedex, France.
18. Design, Synthesis and Structure-Activity Relationships Study of Flavonoids as CDKs inhibitors
Tao LIU
Department of Medicinal Chemistry, School of Pharmaceutical Science, Zhejiang University, Hangzhou 310031, P.R.C

COFFEE BREAK & POSTER SESSION &: 15:00 – 16:30

Session D. Molecular sciences: 15:30-16:30

Session chair: De li SHI

19. Carbohydrate-based Drug Research
Yongmin ZHANG
Ecole Normale Supérieure, Département de Chimie, UMR 8642: CNRS-ENS, 24 rue Lhomond, 75231 Paris, Cedex 05, France
20. Sugar amino acids, building blocks used for supramolecular chemistry
Juan XIE
Photophysique et Photochimie Supramoléculaires et Macromoléculaires, Ecole Normale Supérieure de Cachan, 61 Ave. du Pt Wilson, F-94235 Cachan, France
21. Nanopatterning by nanoscale dispensing
A.P. Fang, T. Ondarçuhu, E. Dujardin
Groupe NanoSciences, CEMES-CNRS, 29 rue Jeanne Marvig, 31055 Toulouse, France
22. Constructal approach and multi-scale components
L.Luo
Laboratoire Optimisation de la Conception et Ingénierie de l'Environnement, ESIGEC- Université de Savoie, 73376, Le Bourget-Du-Lac cedex, France

Session E. Geologic science and others: 16:30-17:30

Session chair: Hao LI

23. New insight on the geological evolutionary history of Tianshan Mountains
Bo WANG, Michel Faure, Dominique Cluze, Yan Chen, Jacque Charvet
Institut des Sciences de la Terre, Université d'Orléans, 45067, Orléan
24. Paleomagnetic results from Tarim block, NW China, and its responses for Rodinia Supercontinent
Sheng Zhan^{1,2,*}, Yan Chen¹, Bei Xu², Michel Faure¹
¹*Institut des Sciences de la Terre, Université d'Orléans, 45067, Orléans, France*
²*School of Earth and Space Sciences, Peking University, 100871, Beijing, China*
25. Biodiversity of magnetotactic marine bacteria and characterization of the singledomain magnetic nanocrystals from biological origins
Long-Fei Wu¹, Kui Yu-Zhang¹, Tian Xiao³ and Tao Song⁴
¹*Laboratoire Chimie Bactérienne, IBISM-CNRS, Marseille, France;* ²*Department de Physique, Université de Reims, Reims, France;* ³*Institute of Oceanology, Chinese Academy*

of Sciences, Qingdao China; 4Department of Biomedical Engineering, Institute of Electrical Engineering, Chinese Academy of Sciences, Beijing, China.

26. Lab on a chip: Miniaturization and integration of all functionalities
Yong Chen
Ecole Normale Supérieure, 24 rue Lhomond, 75005 Paris, France
Laboratoire de Photonique et de Nanostructures, CNRS, 91460 Marcoussis, France
Center for Microfluidics and Nanotechnology, Peking University, 100871 Beijing, China,

Session F. 17:30-18:00 Round table discussion

Session chairs: Wei Feng DONG and Zhao Zhong WANG

POSTER PRESENTATIONS:

Session chairs: JinBo BAI, Wei Feng DONG and Yong CHEN

27. Magnetic nanoparticles handling on chip for analytical applications
S.S. Guo¹⁾, Y. J. Liu^{1,2)}, D.W. Pang²⁾, Y. Chen¹⁾
¹⁾ *Ecole Normale Supérieure of Paris, 24 rue Lhomond, 75005 Paris, France*
²⁾ *Department of Chemistry, Wuhan University, 430072, Wuhan, China*
28. Fabrication of superhydrophobic materials by nano-casting and lithography method
Manhui Sun, Hang Ji, Yong Chen
Center for Microfluidics and Nanotechnology, Peking University, 100871 Beijing, China,
School of Physics, Peking University, 100871 Beijing, China,
Ecole Normale Supérieure, 24 rue Lhomond, 75231 Paris, France
29. The affinity of the lectin site from HIV-1 envelope gp41 for its epithelial receptor galactosyl ceramide is calcium dependent
Huifeng Yu, Annette Alfsen, Daniela Tudor and Morgane Bomsel *
Entrée Muqueuse du VIH et immunité muqueuse
Département de Biologie Cellulaire, Institut Cochin, CNRS, INSERM, Université René Descartes, 22 rue Mechain, 75014 Paris, France
30. Soft UV nanoimprint lithography and its applications
J. Shi¹, C. Pérez² and Y. Chen^{1,2}
¹⁾ *Ecole Normale Supérieure, 24 rue de Lhomond, 75005 Paris, France*
²⁾ *Laboratoire de Photonique et de Nanostructures, CNRS, 91460 Marcoussis, France*
31. Diamond-based single-photon emission in the near infrared
E Wu^{1,2}, V. Jacques¹, H.P. Zeng², F. Treussart¹, P. Grangier³ and J.F. Roch¹
¹ *Laboratoire de Photonique Quantique et Moléculaire, ENS de Cachan, France*
² *Key Laboratory of Optical and Magnetic Resonance Spectroscopy, East China Normal University, Shanghai, P. R. China*
³ *Laboratoire Charles Fabry de l'Institut d'Optique, UMR CNRS 8501, France*
32. 反馈式离子膜法分离制备氨基酸及其衍生物绿色工艺及设备研究
崔艳丽
浙江大学化学系 310027
33. Change analysis of dynamic copula for measuring dependence in multivariate financial data
Jing Zhang* et Dominique Guégan**
*Ecole Normale Supérieure de Cachan, MORA, **ENS-Cachan, MORA & Département d'Economie et Gestion 61, avenue du président Wilson, 94230 Cachan Cedex, France.*
34. Adding Relevance Feedback to Search Engine
Hanglin Pan

- Max-Planck-Institute for Computer Science (MPII), D-66123 Saarbruecken, Germany*
35. The Stille Coupling Reaction Catalyzed by Multi-Metal Oxide
Hechun Lin
Institut für Organische Chemie Universität des Saarlandes, D-66123 Saarbrücken, Germany
 36. Design and synthesis of new tetrazines for sensors of electrophilic compounds and anions
Yong-Hua Gong, Gilles Clavier, Pierre Audebert, Juan Xie, Fabien Miomandre and Laurent Galmiche
Laboratoire de Photophysique et Photochimie Supramoléculaires et Macromoléculaires, Bâtiment d'Alembert, Ecole Normale Supérieure de Cachan, 61, ave. du Président, Wilson, 94235 CACHAN
 37. Etude par voltamétrie cyclique des intermédiaires formés lors de la décomposition du sel d'angeli
C. Amatore, S. Arbault, C. Ducrocq*, S. H. Hu et F. Peyrot, and I. Tapsoba
Ecole Normale Supérieure of Paris, 24 rue Lhomond, 75005 Paris, France
**Institut de Chimie des Substances Naturelles, UPR CNRS 2301, Gif sur Yvette, France*
 38. Thermal performance improvement of a mini cross-flow heat exchanger by flow equi-distribution
L. Luo, Z. Fan, Y. Fan, N. Henriez, R. Sedano
Laboratoire Optimisation de la Conception et Ingénierie de l'Environnement, Ecole Supérieure d'Ingénieurs de Chambéry, Campus Scientifique Savoie Technolac, 73376 Le Bourget du Lac Cedex, France
 39. Synthesis of 4'-deoxy Le^X pentasaccharide for the study of calcium- dependent Le^X- Le^X interaction
Y. Luo¹, B.T. Fan², Y.M. Zhang¹
¹) *Département de chimie, Ecole Normale Supérieure of Paris, 24 rue Lhomond, 75231 Paris, France*
²) *ITODYS, CNRS UMR7086, Université Paris 7, 1 rue Guy de la Brosse, 75005 Paris, France*
 40. Gas-liquid two-phase flow and mass transfer in microchannels
Jun Yue^{a,b}, Guangwen Chen^a, Quan Yuan^a, Lingai Luo^b, Yves Gonthier^b
^a*Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China*
^b*LOCIE – ESIGEC – Université de Savoie, Campus Scientifique, Savoie Technolac, 73376, Le Bourget-du-Lac cedex, France*
 41. Modelling of the avalanche shed submit to the actions of gravity flows: Application to the avalanche of snow
Y.Ma¹, P.Perrotin¹, M.Mommessin¹, J.Mazars²
¹-*LOCIE Université de Savoie 73376 Le Bourget du Lac*
²-*L3S INPG Domaine Universitaire BP 53, 38041 Grenoble cedex 9*
 42. Abatement of dioxins: a new process integrated adsorption, desorption and destruction by the micro wave plasmas
Fengdong YU¹, Ling Ai LUO¹, Daniel Tondeur² and Paul-marie Marquaire³
¹-*LOCIE-Université de savoie, Technolac*, ²-*LSGC-ENSIC-CNRS*, ³-*DCPR-CNRS*
 43. Experimental investigation of energy separation by a vortex tube and its application in the building
Fengdong Yu, Bernard Souyri, Ling Ai Luo
LOCIE, Université de Savoie, 73376 Le Bourget du Lac, France