Symposium Schedule

Monday, September 8, 2008

13:30~18:00 : Registration + Poster session **I**

16:00~18:30 : Welcome Reception + Poster session I (Suite)

18:30~19:00 : Opening Remarks

Prof. K. Kuroda, President of the International Mesostructured Materials Association
Prof. M. Scheuer (Rector of the University of Namur (FUNDP))
Prof. A. Brillard (President of Université Haute Alsace),

19:00~20:00 : **(NP-01) Nobel Prize lecture**

Dynamats : Dynamic Molecular and Supramolecular Materials
J. M. Lehn, Université Louis Pasteur, Strasbourg, France

Chairs: **M. Scheuer (Rector of the University of Namur (FUNDP)**
A. Brillard (President of Université Haute Alsace),

20:00~20:40 : **(KN-01) Opening Keynote**

Some Thoughts on the Past, Present and Future Impact of Mesostructured Materials
G.D. Stucky, University of California, Santa Barbara, USA
Chair : S. Kaliaguine (Université Laval, Canada)

20:40~21:00 : **(IT-01) Invited Talk**

Mesoporous Silica Nanoparticles for Controlled Release and Intracellular Delivery of Drugs, Genes and Proteins
Victor S.-Y. Lin, Iowa State University , USA
Chair : S. Kaliaguine (Université Laval, Canada)

Tuesday, September 9, 2008

Session I: Oxide mesostructured materials

Chairs: Chia-Min Yang, Ajayan Vinu

08:30~9:10 : **(PL-01) Plenary Lecture**
Controlling Morphologies of Porous Solids Structured by Multiple Templates
A. Stein, University of Minnesota, USA

09:10~9:30 : **(O-001)Towards a better understanding of the surface chemistry of mesoporous silicas based on analysis of accessible surface groups**
J. M. Rosenholm and Mika Lindén, Finland

09:30~9:50 : **(O-002) Synthesis and New Applications of Ordered Nanoporous Metal Oxides**
M. Tiemann, T. Waitz, J. Roggenbuck and T. Wagner, Germany

9:50~10:10 : **(O-003) The Search of Promoters for Silica Condensation and Rational Synthesis of Hydrothermally Stable Mesoporous Silica Materials**
Y. Du, S. Liu, Y. Ji and F.-S. Xiao, China

10:10~10:30 : **Coffee Break**

Chairs: Shunai Che, Yahia Djaoued

10:30~11:00 : **(KN-02) Keynote Lecture :**
Optical Applications of Periodic Mesoporous Aromatic-Silicas
S. Inagaki, Toyota, Japan

11:00~11:20 : **(O-004) Exploring the Inner Landscape of a Porous Nanostructure: Correlating Single Molecule Tracking and Electron Microscopy**
A. Zürner, J. Kirstein, M. Döblinger, C. Bräuchle and T. Bein, Germany

11:20~11:40 : **(O-005) In situ XRD studies of adsorption on mesoporous materials: theory and experiments.**
K. Miyasaka, N. Muroyama, O. Terasaki, P. I. Ravikovitch and A. V. Neimark, USA

11:40~12:00 : **(O-006) In-situ USAXS-SAXS Study of SBA-15 Growth**
V. Alfredsson , P. Linton, M. Zackrisson and A. Rennie, Sweden

12:00~12:20 : **(O-007) Electrogeneration of oriented mesoporous silica thin films**
A. Walcarius , E. Sibottier , M. Etienne, A. Goux and E. Aubert, France

12:20~13:30 : **Lunch + Poster session I (suite)**

Tuesday, September 9, 2008

Session II: Non-oxide mesostructured materials

Chairs : Florence Babonneau, Sang-Eon Park

13:30~14:10 : **(PL-02) Plenary Lecture :**
New advances in non-oxide mesostructured materials
D.Y. Zhao, Fudan University, China

14:10~14:30 : **(O-008) Micro- and Mesoporous Polymers and Organic Frameworks**
A. Thomas, P. Kuhn and J. Weber, Germany

14:30~14:50 : **(O-009) Mesoporous Polymer-Silica Nanocomposites: Principle, Characterization and Properties**
F. Kleitz, L. Marcoux and M. Wainer, Canada

14:50~15:10 : **(O-010) Ordered Mesoporous Boron Nitride (BN) and SilicoBoron CarboNitride (BN) Materials via Preceramic Polymer Nanocasting**
X.-B. Yan, L. Gottardo, S. Bernard, P. Dibandjo and P. Miele, France

15:10~15:40 : **Coffee Break**

Chairs: An-Hui Lu, Juan-Manuel Campelo

15:40~16:20 : **(PL-03) Plenary Lecture**
Synthesis of porous polymers, carbon resins and nitrides
M. Antonietti, Max Planck Institute of Colloids and Interfaces, Germany

16:20~16:40 : **(O-011) Ordered Mesoporous Phenol/Formaldehyde Resins as a New Support Material for Vanadium Oxide**
I. Muylaert, M. Borgers, D. Schaubroeck, J. Schaubroeck, F. Verpoort and P. Van Der Voort, Belgium

16:40~17:00 : **(O-012) Self-Assembled Ultra-Large Millimeter-Sized Graphitic Carbon Rods Grown on Mesoporous Silica Substrate**
Z. Yang, Y. Xia, Y. Zhu and R. Mokaya, United Kingdom

17:00~17:20 : **(O-013) Functionalization and Catalytic Properties of Resol Mesopolymers**
R. Xing, Y. Liu, H. Wu, X. Li, M. He and P. Wu , China

17:20~17:40 : **(O-014) Direct Triblock-Copolymer-Templating Synthesis of Ordered Mesoporous Carbons Containing Nonmetals and Their Applications**
X. Qian, C. Feng, H. Li, D. Zhao and Y. Wan, China

17:40~18:00: **(O-015) Ordered heterogeneous Inorganic/inorganic Nano Patterns (INP) and novel multifunctional nanoporous surfaces**
D. Grosso, M. Kuemmel, C. Boissière, J. Allouche and C. Sanchez, France

18:00~18h30: **IMMA general meeting**

18:30~22:00 : **Poster session II + Belgian Beer party**

Wednesday, September 10, 2008

Session V: Bioinspired and other new synthesis routes to mesostructured materials

Chairs: Yanqin Wang, Laurent Bonneviot

08:30~9:10 : **(PL-06) Plenary Lecture**
Lessons from Diatoms:
Towards Biological and Biomolecule-enabled Syntheses of Functional Inorganic Materials
N. Kröger, Georgia Institute of Technology, USA

09:10~9:30 : **(IT-05) Invited Talk**
Mesoporous Thin Films: Building Blocks for Complex Materials with Multiple Length Scale-Derived Properties
G.J.A.A. Soler-Illia, P. C. Angelomé, M. C. Fuertes, A. Calvo, M. Marchena, A. Wolosiuk and A. Zelcerm University of Buenos Aires, Argentina

09:30~ 9:50 : **(O-027) Structuring silica from water-soluble pH-responsive structuring agents**
N. Baccile, J. Reboul, B. Coq, M. In and C. Gérardin, France/Germany

09:50~10:10 : **(O-028) Synthesis and Properties of Carbons with Incorporated Inorganic Nanoparticles Possessing Uniform and Ordered Mesopores**
M. Jaroniec, J. Gorka, J. Choma and A. Zawislak, USA/Poland

10:10~10:30 : **Coffee Break**

Chairs: Barbara Onida, Guang-Shan Zhu

10:30~11:00 : **(KN-05) Keynote Lecture**
Controls of structure and morphologies in applications of mesoporous materials
C. Y. Mou, National University of Taiwan, Taiwan

11:00~11:20 : **(O-029) Formation Mechanisms of Nanoporous Anodic Al_2O_3 and TiO_2 films**
Zixue Su and Wuzong Zhou, UK

11:20~11:40 : **(O-030) Structure-directed electrodeposition of mesoporous metal oxide films**
T. Oekermann , C. Boeckler, K. Wessels, M. Wark, T. Yoshida and J. Caro, Germany

11:40~12:00 : **(O-031) Formation Mechanism of Colloidally Stable Mesostructured Silica**
A. Berggren and A. E.C. Palmqvist, Sweden

12:00~12:20 : **(O-032) Hierarchical MFI Zeolite for Large Molecule Catalytic Reactions**
S.-S. Kim and T. J. Pinnavaia, USA

12:20~13:30 : **Lunch + Poster session III**

Wednesday, September 10, 2008

Session IV: Biological and medical applications and Mixed topics

Chairs: Valentina Matveeva, Hee-Taik Kim

13:30~14:10 : **(PL-05) Plenary Lecture**
Bio-encapsulation within porous oxides
J. Livage, Collège de France, France

14:10~14:40 : **(KN-04) Keynote Lecture**
Encapsulation of Magnetic Nanoparticles in Mesostructured Silica and Hollow Spheres for Bioapplications
M. G. Q. Lu, University of Queensland, Australia

14:40~15:00 : **(O-023) Thorough Testing of Mesoporous Silica as a Biomaterial: Cell Culture, Animal Testing and Gene Expression**
P. Behrens, N. Ehlert, D. Lindemeier, P.P. Müller, G. Brandes, J. Vogt, C. Turck, E. Hlozanek, T. Lenarz and M. Stieve, Germany

15:00~15:20 : **(O-024) Sponge Mesoporous Silica for Enzyme Encapsulation and Biocatalysis**
A. Galarneau, G. Renard, L. Truong Phuoc, F. Di Renzo, F. Fajula, F. Sartori and F. M. Ottaviani, France

15:20~15:40 : **Coffee Break**

Chairs: Soofin Cheng, Zoltan Konya

15:40~16:00 : **(IT-02) Invited Talk**
Liquid Crystalline Mesophases of Transition Metal Salts-Surfactant Systems and Mesostructured Materials
Ö. Dag, Bilkent University, Turkey

16:00~16:20 : **(IT-03) Invited Talk**
Preparation and Application of Mesoporous Well-Ordered Array of Silica Spheres
T. Tatsumi, T. Yokoi, J. N. Kondo, R. Watanabe, S. Ohta, T. Karouji and E. Kobayashi, Tokyo Institute of Technology, Japan

16:20~16:40 : **(IT-04) Invited Talk**
New Catalysts Based on Templated Porous Carbon
X. S. Zhao, National University of Singapore, Singapore

16:40~17:00 : **(O-025) The influence of immobilization method on the properties of amine-MCM-41 and amine-SBA-15 containing various T atoms**
D. Blasco-Jiménez, A. J. López-Peinado, R. M. Martín-Aranda, I. Sobczak and M. Ziolek, Poland/Spain

17:00~17:20: **(O-026) Synthesis, characterization and catalytic behavior of $Sn(OTf)_2$/MCM-41 and $Sn(OTf)_2$/UVM-7 as new green catalysts for Friedel-Crafts and Diels-Alder reactions**
V. I. Parvulescu, S. M. Coman, N. Candu, J. El Haskouri, D. Beltrán and P. Amorós, Romania/Spain

17:20~18:40 : **Poster session III (Suite)**

19:00 : **Departure for Social Diner**

Thursday, September 11, 2008

Session III: Hierarchically mesostructured materials

Chairs: Pegie Cool, Zhong-Yong Yuan

8:30~9:10 : **(PL-04) Plenary Lecture**
New Advances in the Synthesis and Characterization of Hierarchically Mesostructured Materials
R. Ryoo, Korea Advanced Institute of Science and Technology, Korea

09:10~9:30 : **(O-016) Hierarchically Organized Silica Gels:**
– Detailed Studies of the Growth and Phase Separation Processes by Small Angle X-ray Scattering and HR Transmission Electron Microscopy
N. Hüsing, C. Fritscher, H. Lichtenegger, U. Hörmann, U. Kaiser and H. Peterlik, Germany/Austria

09:30~9:50 : **(O-017) Ink-jet Printing of Microdot Arrays of Functionalized Mesostructured Silica**
M. Lejeune, B. Fousseret, M. Mougenot, F. Rossignol, J.-F. Baumard,
B. Soulestin, C. Boissière, C. Sanchez, D. Jalabert and D. Massiot, France

09:50~10:10 : **(O-018) Mesostructured Silica Films Consisting of Double-Four-Membered Ring (D4R) Units**
Y. Hagiwara, A. Shimojima and K. Kuroda, Japan

10:10~10:30 : **Coffee Break**

Chairs: Izabela Nowak, Girolano Giordano

10:30~11:00 : **(KN-03) Keynote Lecture :**
Preparation of Novel Mesoporous Silica Spheres with Pore Size from 20 nm to 40 nm
S.L. Qiu, Jilin University, China

11:00~11:20 : **(O-019) Fabrication of Mesoporous Functionalized Arrays by Integrating Deep X-ray Lithography With Dip-pen Writing**
S. Costacurta, L. Malfatti, T. Kidchob, P. Falcaro, P. Schiavuta, B. Marmiroli, H. Amenitsch, M. Piccinini, M.-F. Casula and P. Innocenzi, Italy/Austria

11:20~11:40 : **(O-020) New aluminosilicate materials with hierarchical porosity generated by aerosol process**
A. Chaumonnot , F. Tihay, A. Coupé, C. Boissière and C. Sanchez, France

11:40~12:00 : **(O-021) Can the mesopores of metal oxides be polygonized ?**
T.-Z. Ren, Z.-Y. Yuan and X.-D. Zou, China/Sweden

12:00~12:20 : **(O-022) Adsorption and Phase Behavior of Fluids and Advanced Textural Characterization of Novel Silica Materials with Hierarchical Pore Structures**
M.Thommes, Ö. Sel, A.V.Neimark, D. Wallacher, A. Brandt and B. Smarsly, USA/Germany

12:20~13:30 : **Lunch + Poster Session III**

Thursday, September 11, 2008

Session VI: Applications in catalysis, separation processes,….

Chairs: Petra E. de Jongh, Hong-Pin Lin

13:30~14:10 : **(PL-07) Plenary Lecture**
Fluorescence Microscopic Studies of Porous Materials: towards Spatially Resolved Structure-Activity Relationships
D. De Vos, Katholieke Universiteit Leuven, Belgium

14:10~14:30 : **(O-033) Fabrication of Platinum on Functionalized Carbon Mesoporous Materials by Self-assembly for Oxygen Reduction**
S.-H. Liu, C.-C. Chiang, M.-T. Wu and S.-B. Liu, Taiwan

14:30~14:50 : **(O-034) Ellipsometric Porosimetry : Fast and non destructive morphological and chemical characterization of porous thin films.**
A. Bourgeois, Ch. Walsh, L.Y. Turcant and Ch. Defranoux, France

14:50~15:10 : **(O-035) Synthesis of Nano-sized Pt Metal Particles on Ti-containing Mesoporous Silica Using a Photo-assisted Deposition Method**
S. Shironita, T. Araki, T. Ohmichi, K. Mori and H. Yamashita, Japan

15:10~15:40 : **Coffee break**

Chairs: Viorica Parvulescu, Sudhir Dapurkar

15:40~16:10 : **(KN-06) Keynote Lecture**
Ordered Mesoporous Materials as Model Supports for Catalyst Preparation Studies
K. P. de Jong, Utrecht University, The Netherlands

16:10~16:30 : **(O-036) Direct Synthesis of Very Hydrophobic Mesoporous Silicas From Water And Their Use In Adsorbency And Catalysis**
D. J. Macquarrie and W. Hu, United Kingdom

16:30~16:50 : **(O-037) Mesoporous Thin Films of Nb-V Mixed Oxides as Cathode Candidate in Lithium Ion Batteries**
N. Krins, B. Vertruyen, C. Henrist, C. Boissière, D. Grosso, C. Sanchez and R. Cloots, Belgium

16:50~17:10 : **(O-038) Replicas of Mesoporous Silica Thin Films and Their Applications**
Y.-U. Kwon, U.-H. Lee, H.-J. Lee, M.-H. Kim and Y.-S. Ko, Korea

17:10~: **Concluding remarks and Drinking**