

France-China Workshop Molecular Catalysts and Catalysis

July 18-21, 2005
Rennes, France

PROGRAM

Tuesday, July 18

- 18:00 Registration and then Reception: (Hall Building 42), Campus de Beaulieu
19:30 Buffet (Hall Building 42)

Wednesday, July 19

Morning

- 9:30-9:45 Opening Remarks

Session I Chairperson: **Xue Long Hou** (Shanghai)

- 9:45-10:15 **Kuiling Ding**, Shanghai Institute of Organic Chemistry, CAS, Shanghai
Intramolecularly Dinuclear Zn²⁺ and Mg²⁺ Complexes for the Catalysis of Copolymerization of Cyclohexene Oxide with CO₂ under Ambient CO₂ Pressure

- 10:15-10:45 **Virginie Vidal**, Ecole Nationale Supérieure de Chimie de Paris
Asymmetric Synthesis with Transition Metal Catalysts

- 10:45-11:15 Coffee Break

Session II Chairperson: **Jean-Luc Parrain** (Marseille)

- 11:15-11:45 **Zhaoguo Zhang**, Jiaotong University, Shanghai
The Design and Synthesis of Finely Tunable Bisphosphine Ligands and Their Applications in Asymmetric Hydrogenation

- 11:45-12:15 **Annie-Claude Gaumont**, Université de Caen
C-P bond formation by asymmetric catalysis

- 12:15 Lunch

Afternoon

Session III Chairperson: **Baiquan Wang** (Nankai)

- 14:00-14:30 **Jianbo Wang**, Peking University, Beijing
Thio Group as Internal Nucleophile: Transition Metal-Catalyzed Reaction of Propargylic and Allenyl Sulfides

- 14:30-15:00 **Sylvain Nlate**, Université de Bordeaux 1, Talence
Air Stable and Recoverable Dendritic Polyoxometalates Catalysts for Oxidation Reactions

- 15:00-15:30 **Zhengkun Yu**, Dalian Institute of Chemical Physics, CAS, Dalian
Construction of New Types of N-Heterocyclic Ligands and the Catalytic Activity of their Transition Metal Complexes
- 15:30-16:00 **Henri Doucet**, Université d'Aix-Marseille III Paul Cezanne, Marseille
Half-Space Tetradentate Phosphine: A New Key to improve Catalysts for C-C bond formation
- 16:00-16:30 Coffee Break and poster session
- 16:30-17:45 Discussion on China-France exchanges
- 18:00 Reception Rennes town Hall
- 20:00 Dinner at restaurant in the City

Thursday, July 20

Morning

Session IV Chairperson: **Dominique Matt** (Strasbourg)

9:00-9:30 **Zhenfeng Xi**, Peking University, Beijing
Metal-mediated Efficient Synthesis, Structural Characterization and Skeletal Rearrangement of Octa-substituted Semibullvalenes

9:30-10:00 **Nadine Pirio**, Université de Bourgogne, Dijon
Benzynezirconocene and Related Complexes: Innovative Synthesis of Functional Zirconacycles and Heterocycles

10:00-10:30 **Yong Tang**, Shanghai Institute of Organic Chemistry, CAS, Shanghai
Study on the Selectivity-controllable Ylide Reactions

10:30-11:00 Coffee Break

Session V Chairperson: **Zhengkun Yu** (Dalian)

11:00-11:30 **Alain Igau**, Laboratoire de Chimie de Coordination, Toulouse
Adaptive Ligands in Coordination Chemistry and Catalysis

11:30-12:00 **Baiquan Wang**, Nankai University
The Synthesis, Structures and Reactivity of Doubly Bridged Biscyclopentadienyl Dinuclear Metal Carbonyl Complex

12:00-12:30 **Geneviève Balme**, Université Lyon 1
Palladium-Mediated Cascade and Multicomponent Reactions: A New Route to Carbo- and Heterocyclic Compounds

12:30 Lunch

Afternoon

Session VI Chairperson: **Francine Agbossou-Niedercorn** (Lille)

14:00-14:30 **Zuowei Xie**, The Chinese University of Hong Kong, Hong Kong
Reaction of Metal-Carboryne Complexes with Unsaturated Molecules

14:30-15:00 **Marc Taillefer**, Ecole Nationale Supérieure de Chimie de Montpellier
Copper- or Nickel-catalyzed *N*- *O*- and *C*-arylation of Nucleophiles: New Advances and Future Prospects

- 15:00-15:30 **Qing-Hua Fan**, Institute of Chemistry, CAS, Beijing
Homogeneous Asymmetric Hydrogenations Using Immobilized Chiral Catalysts
- 15:30-16:00 Coffee Break
- Session VII* *Chairperson: Shaowu Wang (Wuhu)*
- 16:00-16:30 **Olivier Lavastre**, Université de Rennes 1
Parallel Approaches for the Discovery of New Catalysts. Selected Examples for C-C Coupling Reactions
- 16:30-17:00 **Jieping Zhu**, Institut de Chimie des Substances Naturelles, Gif-sur-Yvette
Palladium-catalyzed Domino Process for the Rapid Construction of Heterocycles
- 17:00-18:30 Discussion & Poster Session
- 19:30 Dinner

Friday, July 21

Morning

- Session VIII* *Chairperson: Jacques Lebreton (Nantes)*
- 09:00-09:30 **Rémi Chauvin**, Laboratoire de Chimie de Coordination, Toulouse
Chiral Dialkynylcarbinols by Metal-mediated Propargylation of Terminal Alkynes
- 09:30-10:00 **Hongbin Zhai**, Shanghai Institute of Organic Chemistry, CAS, Shanghai
Total Synthesis of Absinthin
- 10:00-10:30 **Louis Fensterbank**, Institut de Chimie Moléculaire, Université Pierre et Marie Curie, Paris
New Cycloisomerization Reactions Catalyzed by Pt(II), Au(I) and Au(III) Complexes
- 10:30-11:00 Coffee Break
- Session IX* *Chairperson: Zhenfeng Xi (Beijing)*
- 11:00-11:30 **Xue Long Hou**, Shanghai Institute of Organic Chemistry, CAS, Shanghai
Asymmetric Reactions Using Novel Chiral Ligands
- 11:30-12:00 **Odile Eisenstein**, Université de Montpellier 2
D⁰ Olefin Metathesis Catalysts: Recipes for an Efficient Catalyst from a DFT Perspective
- 12:00-12:30 **Shaowu Wang**, Anhui Normal University, Wuhu, Anhui
Development of New Reactivity of the Ln-N Bond
- 12:30 Lunch

Afternoon

- Session X* *Chairperson: Christian Bruneau (Rennes)*
- 14:00-14:30 **Jean-Claude Fiaud**, Institut de Chimie Moléculaire et des Matériaux d'Orsay, Orsay
Enantioselective Palladium-catalyzed Benzylic Alkylation
- 14:30-15:00 **Liu-Zhu Gong**, University of Science and Technology of China, Hefei
Organocatalyzed Asymmetric Direct Aldol Reactions with Proline Amides

15:00-15:30 **Pascal Le Floch**, Ecole Polytechnique, Palaiseau
Ligand Design for Catalysis

16:00-16:30 Closing Remarks

17:30 Visit of Rennes historical town

Saturday, July 22

08:00 Visit to Mont Saint Michel
(Departure in front of Hotel Campanile)

13:30 return to Rennes