**界面科学与热力学课题组**



Skloche

**化学工程联合国家重点实验室**



会议告知

化学工程国家联合重点实验室-华理分室和华东理工化工学院联手于2016年9月23-25日共同主办介尺度问题研究进展国际研讨会（英文名称“International Workshop on Advances in the Studies of Mesoscale Problems”). 会议瞄准国内外关于介尺度问题研究的前沿和最新进展，旨在为该领域研究人员提供一个思想碰撞和学术交流的平台。会议内容丰富，欢迎各位老师和研究生参加。

* **Agenda（日程安排）**

**Venue: 16th Research Building, Room 110（实验十六楼110）**

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| **Time** | | **Topic** | **Speaker** | **Chair** |
| Morning,  Sept. 24 | 08:30-08:40 | Introduction and Welcome | Honglai Liu | Umberto Marini Bettolo Marconi |
| 08:40-9:30 | Confinement-induced high pressure phases in nanopores. Can the pressure be in the Megabar range? | Keith E. Gubbins |
| 9:30-10:10 | Stability-constrained multi-scale models for complex flows | Wei Ge |
| 10:10-10:30 | Coffee Break | | |
| 10:30-11:20 | Towards a statistical mechanical theory of active fluids | Umberto Marini Bettolo Marconi | Nick Quirke |
| 11:20-12:00 | Development and Application of Static and Dynamic Classical Density Functional Theory for Capacitive Energy Storage | Cheng Lian |
| 12:00 | Lunch | | |
| Afternoon,  Sept. 24 | 13:30-14:20 | Study of Hydrated Ions Transport in Ion-exchange membranes: role of morphology | Liang Wu | Shuangliang Zhao |
| 14:20-15:00 | Surface Wettability Effect on Fluid Transport in Nanoscale Slit Pores | Yaofeng Hu |
| 15:00-15:20 | Coffee Break | | |
| 15:20-16:00 | Modeling Studies of Biogas Purification and Bio-CH4 Storage | Linghong Lu | Wei Ge |
| 16:00-16:40 | Molecular modeling of biomolecules translocation through nanopores | Jiawei Shen |
| 16:40-17:20 | Mesoscale concept for turbulence modeling and simulation | Lin Zhang |
|  | Banquet | | |

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| **Time** | | **Topic** | **Speaker** | **Chair** |
| Morning,  Sept. 25 | 8:30-9:20 | Excess electron states in fluid methane: Density-functional versus Lanczos approaches | Nick Quirke | Shuangliang Zhao |
| 9:20-10:00 | Computational Simulation of Supported Nanocatalysts under Realistic Conditions | Jianguo Wang |
| 10:00-10:30 | Coffee Break | | |
| 10:30-11:10 | Meso-scale Structures in Ionic Liquids Systems: Ionic Cluster and Hydrogen Bond | Xiaomin Liu | Jianguo Wang |
| 11:10-11:50 | Study of reaction and transport at surfaces of graphene | Yingchun Liu |
| 12:00-13:30 | Lunch | | |
| Afternoon,  Sept. 25 | 13:30-14:10 | Assembly of polyelectrolytes: towards soft nanoparticles for functional materials | Junyou Wang | Marc Pera-Titus |
| 14:10-14:50 | A theoretical understanding of amino acid interaction with graphene and its derivatives | Liangliang Huang |
| 14:50-15:20 | Coffee Break | | |
| 15:20-16:00 | Dynamics of Pickering emulsions in the presence of an interfacial reaction: a simulation study | Marc Pera-Titus | Liangliang Huang |
| 16:00-16:40 | Ordered Water Monolayer That Does Not Completely Wet Water and Molecular-scale Hydrophilicity at Room Temperature | Chunlei Wang |
| 16:40-17:20 | The Role of Polymer-Substrate Interaction Strength in Polymer Films on Solid Substrates: the Glass Transition and Friction Force | Rong An |
|  | Banquet | | |