

International Symposium on Functional Glasses
January 4-15, 2010
Program of Events

Monday, January 4th

18:00 - 20:00 **Welcome Reception** (Yuquan Hotel)

Tuesday, January 5th

07:30 - 08:30 **Breakfast**(Yuquan Hotel)

Chair: Jianrong Qiu, Zhejiang University, PRC

09:30 - 09:45 **Opening Speech 1: Welcome and Introduction to the Zhejiang University**
Jianhua Yan, Graduate School of Zhejiang University, PRC
Zhizhen Ye, Dept. Mat. Sci. Eng., Zhejiang University, PRC
Youchun Shi, Corning Inc., USA

09:45 - 10:15 **Opening Speech 2: Introduction to Winter School**
Himanshu Jain, Lehigh University, USA
Jianrong Qiu, Zhejiang University, PRC

10:15 - 10:45 **Taking Pictures and Break**

Chair: Jiang Chang, Shanghai Institute of Ceramics, Chinese Academy of Sciences, PRC

10:45 - 12:00 **Lecture 1: Glass and Energy**
Arribart Hervé, Henri, Ecole Supérieure de Physique et Chimie Industrielles, France

12:00 - 13:30 **Lunch Break**

Chair: Sabyasachi Sen, University of California at Davis, USA

13:30 - 14:45 **Lecture 2: Electrochemical Applications of Glass: New Functionalities for a Greener Future**
Steve Martin, Iowa State University, USA

14:45 - 15:00 **Break**

15:00 - 16:15 **Lecture 3: Bioactive glasses and glass-ceramics for biomedical applications**
Jiang Chang, Shanghai Institute of Ceramics, Chinese Academy of Sciences, PRC

16:15 - 16:30 **Break**

16:30 - 17:30 **Discussion of the lecture topics and student presentations**

Wednesday, January 6

07:30 - 08:30 **Breakfast** (Yuquan Hotel)

Chair: Guorong Chen, East China University of Science and Technology, PRC

09:00 - 10:15 **Lecture 4: Glass: Structure Determination by Synchrotron Based Scattering and Spectroscopic Techniques**
Sabyasachi Sen, University of California at Davis, USA

10:15 - 10:30 **Break**

10:30 - 11:45 **Lecture 5: High power laser glass and its application**
Lili Hu, Shanghai Institute of Optics and Fine Mechanics, CAS, PRC

11:45 - 13:30 **Lunch Break**

Chair: Arribart Hervé, Henri, Ecole Supérieure de Physique et Chimie Industrielles, France

Revised: 12.15.09 (schedule of events may be subject to change, in particular over Jan 9-10, 2010)

- 13:30 - 14:45 **Lecture 6: *Preparation, Properties and Applications of Chalcogenide Glasses***
Guorong Chen, East China University of Science and Technology, PRC
- 14:45 - 15:00 **Break**
- 15:00 - 17:30 **Discussion of the lecture topics and student presentations**

Thursday, January 7th

- 07:30 - 08:30 **Breakfast** (Yuquan Hotel)
- 09:00 - 12:00 **Campus and lab tours (Zijingang Campus of Zhejiang University)**
- 12:00 - 13:30 **Lunch Break**
- 13:30 - 16:30 **Museum tours (Hangzhou Nature Museum and History Museum)**

Friday, January 8th

- 07:30 - 08:30 **Breakfast** (Yuquan Hotel)

Chair: Yiwang Bao, China Building Materials Academy, PRC

- 09:00 - 10:15 **Lecture 7: *Glass Surfaces and Coatings for New Functionality***
Carlo Pantano, Pennsylvania State University, USA
- 10:15 - 10:30 **Break**
- 10:30 - 11:45 **Lecture 8: *Functional Glasses by Coatings or Thin Films***
Xiujian Zhao, Wuhan University of Technology, PRC
- 11:45 - 13:30 **Lunch Break**

Chair: Steve Martin, Iowa State University, USA

- 13:30 - 14:45 **Lecture 9: *Sensitivity of Glass to Processing Conditions: Good or Bad?***
Himanshu Jain, Lehigh University, USA
- 14:45 - 15:00 **Break**
- 15:00 - 17:30 **Discussion of the lecture topics and student presentations**

Saturday January 9th

Free time (The West Lake and Xixi National Wetland Park)

Sunday January 10th

Free time

Monday January 11th

- 07:30 - 08:30 **Breakfast** (Yuquan Hotel)

Chair: Carlo Pantano, Pennsylvania State University, USA

- 09:00 - 10:15 **Lecture 10: *Why Does Glass Break ? A Review of Recent Studies of the Strength and Fatigue Behavior of Silicate Glasses.***
Richard Kenyon Brow, Missouri University of Science & Technology, USA
- 10:15 - 10:30 **Break**
- 10:30 - 11:45 **Lecture 11: *Mechanical properties and robustness evaluation of glass materials in building.***
Yiwang Bao, China Building Materials Academy, PRC
- 11:45 - 13:30 **Lunch Break**

Chair: Lei Xu, Fudan University, PRC

- 13:30 – 14:45 **Lecture 12: *Femtosecond laser induced microstructures in glass***Jianrong Qiu, Zhejiang University, PRC
- 14:45 - 15:00 **Break**
- 15:00 - 17:30 **Discussion of the lecture topics and student presentations**

Tuesday January 12th

- 07:30 - 08:30 **Breakfast** (Yuquan Hotel)

Chair: Richard Brow, Missouri University of Science & Technology, USA

- 9:00 – 10:15 **Lecture 13: *Structure formation of rare-earth ions doped transparent glass ceramics- nucleation and crystallization of nanocrystals in glass matrix***
Yuansheng Wang, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, PRC
- 10:15 - 10:30 **Break**
- 10:30 - 11:45 **Lecture 14: *Optical microfibers and nanofibers: Fabrication, properties and applications***
Limin Tong, Zhejiang University, PRC
- 11:45 - 13:30 **Lunch Break**

Chair: Yuansheng Wang, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, PRC

- 13:30 - 14:45 **Lecture 15: *Organic/Inorganic hybrid materials based optical microcavities and application***
Lei Xu, Fudan University, PRC
- 14:45 - 15:00 **Break**
- 15:00 - 17:30 **Discussion of the lecture topics and student presentations**

Wednesday January 13th

- 07:30 - 08:30 **Breakfast** (Yuquan Hotel)
- 09:00 - 12:00 **To Shanghai (Nanjing Hotel)**
- 12:00 - 13:30 **Lunch Break**
- 13:30 - 16:30 **Sightseeing of Yu garden and Shanghai Pudong district**

Thursday January 14th

- 07:30 - 08:30 **Breakfast** (Nanjing Hotel)
- 09:30 - 12:00 **Visiting Shanghai Institute of Ceramics, CAS**
- 12:00 - 13:30 **Lunch Break**
- 14:30 - 16:30 **Visiting Shanghai Lightsource, CAS**
- 18:00 - 20:00 **Banquet**

Friday January 15th

- 07:30 - 08:30 **Breakfast** (Nanjing Hotel)
- Departures**