



Advanced Materials Workshop

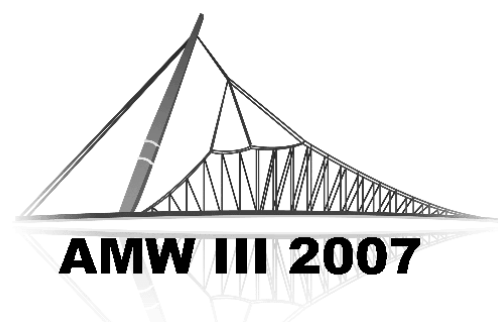
June 22-24, 2007

Dalian, China

Organized and Sponsored

by

Natural Science Foundation of China
Chinese Academy of Sciences
Dalian Institute of Chemical Physics



Organizing Committee

Xinhe Bao,	<i>Dalian Institute of Chemical Physics</i>
Jie Liu,	<i>Duke University</i>
Xiaogang Peng,	<i>University of Arkansas</i>
Peidong Yang,	<i>University of California, Berkeley</i>
Qikun Xue,	<i>Tsinghua University</i>
Dongyuan Zhao,	<i>Fudan University</i>

Invited Participants

Overseas:

- Charles Cao,** *University of Florida*
- CJ Chen ,** *National Taiwan Normal University*
- Pingyun Feng,** *University of California Riverside*
- Mingyong Han,** *National University of Singapore*
- Jie Liu,** *Duke University*
- Jun Liu,** *Pacific Northwest National Laboratory*
- Yunfeng Lu,** *University of California, Los Angeles*
- Xiaogang Peng,** *University of Arkansas*
- Yiying Wu,** *Ohio State University*
- Bing Xu,** *Hong Kong University of Science and Technology*
- Hao Yan,** *Arizona State University*
- Peidong Yang,** *University of California, Berkeley*



China:

Xinhe Bao, *Dalian Institute of Chem. Phys.*

Jianguo Hou, *University of Sci. & Tech of China.*

Lei Jiang, *Institute of Chemistry*

Guangtao Li, *Tsinghua University*

Yadong Li, *Tsinghua University*

Zhongfan Liu, *Beijing University*

Qingbo Meng, *Institute of Physics*

Yi Tang, *Fudan University*

Ququan Wang, *Wuhan University*

Chen Wang, *National Center for NanoScience & Technology*

Mu Wang, *Nanjing University* (to be confirmed)

Kai Wu, *Beijing University*

Ziyu Wu, *Institute of High Energy Physics*

Qikun Xue, *Tsinghua University & Institute of Physics*

ChunHua Yan, *Beijing University*

Dapeng Yu, *Beijing University*

Shuhong Yu, *University of Sci. & Tech of China*

Jihong Yu, *Jilin University*

Dongyuan Zhao, *Fudan University*



Scientific Program

About thirty distinguished scientists from both China and American are invited to give lectures or posters on the important directions of innovative materials and their application in various fields. Each talk is about 25 min, and another 10 min will be arranged for extensive discussion. The lectures will review the frontiers of the research directions, highlight the current research activities, point to the research directions in the next few years.

June 22, 2007, Friday

14:00 - 18:00 Registration

(no registration fee for the invited participants)

14:30 - 18:00 Laboratory tour to DICP

18:30 - 20:30 Dinner

June 23, 2007, Saturday

08:20 – 12:30 Conference

14:00 – 18:00 Conference

18:30 – 20:30 Dinner

20:30 – 22:30 Panel Discussion

June 24, 2007, Sunday

08:00 - 12:00 Conference

13:30 - 17:45 Conference

17:50 – 20:30 Short sightseeing in Dalian and Dinner

Conference Venue:

Conference Hall of Bio-Engineering Building of DICP



Program of Advanced Materials Workshop

June 23 - 24, 2007, Dalian, China

Friday, June 22

- 14:00-18:00 Registration
(Ground Floor of Air-China Hotel Dalian ,
no registration fee for the invited participants)
- 14:30-18:00 Laboratory tour to SKLC
- 18:30-20:30 Dinner (Air-China Hotel Dalian)

Saturday, June 23

(All sessions will be held in the conference hall of Bio-Engineering Building of the Dalian Institute of Chemical Physics. Conference buses will be available in front of the Air-China Hotel Dalian at 8:00 am on Saturday and Sunday.)

Session I

Chairman: Xinhe Bao

08:20-08:30 Opening Ceremony

Discussion Leader: Peidong Yang and Xinhe Bao

08:30-09:05 **Qinbo Meng**

*Composite Electrolytes for Nano-crystalline TiO₂ Dye
Sensitized Solar Cells*



- 09:05-09:40 **Pingyun Feng**
Nanoporous Semiconductors for Photocatalytic Applications
- 09:40-10:15 **Jie Liu**
Few-Walled Carbon Nanotubes: A Better Candidate for Bulk Applications than SWCNs
- 10:15-10:45 Coffee Break and Photo-taken
- 10:45-11:20 **Ququan Wang**
Avalanche multiphoton luminescence from Au nanoantenna arrays
- 11:20-11:55 **Yiying Wu**
Oxide nanomaterials for sensitized solar cells and Li-ion batteries
- 11:55-12:30 **Jianguo Hou**
STM study of TiO₂ surface

Lunch in Institute Cafeteria

Session II

Discussion Leader: Yufeng Lu and Dongyuan Zhao

- 14:00-14:35 **Xiaogang Peng**
How nanocrystals grow in solution?
- 14:35-15:10 **Bing Xu**
Synthesis and Application of Multifunctional Nanoparticles



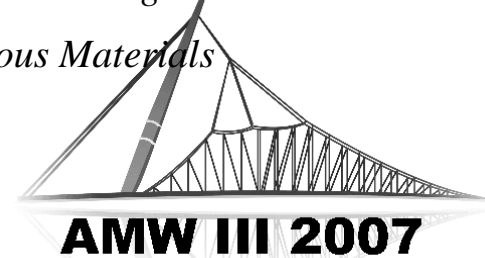
- 15:10-15:45 **Dapeng Yu**
*Research on Semiconductor Nanowires: A Summary to
Our Past Work*
- 15:45-16:15 Coffee Break
- 16:15-16:50 **Yi Tang**
The Bio-application of Zeolite Nanoparticle
- 16:50-17:25 **Jihong Yu**
*Design and Synthesis of Inorganic Nanoporous
Crystalline Materials*
- 17:25-18:00 **Peidong Yang**
Nanotube Nanofluidics
- 18:30 – 20:30, Dinner (Seafood Restaurant)
- 20:30 – 22:30, Panel Discussion

Sunday, June 24

Session III

Discussion Leader: Xiaogang Peng and Qikun Xue

- 08:00-08:35 **Yadong Li**
*From Monodisperse Nanocrystals to Integrated
3-D Colloidal Spheres and Mesoporous Materials*



- 08:35-09:10 **Chunhua Yan**
Synthesis and Properties of Rare Earth Nanocrystals
- 09:10-09:45 **Guangtao Li**
Functional Materials basing on the Ordered Porous Structures
- 09:45-10:20 **Jun Liu**
Stable nanoporous transition metal oxides and supported metal catalysts
- 10:20-10:50 Coffee Break
- 10:50-11:25 **Charles Cao**
Position-controlled doping of semiconductor nanocrystals
- 11:25-12:00 **Mingyong Han**
Preparation and application of nanostructures

Lunch in Institute Cafeteria

Session IV

Discussion Leader: Jie Liu and Chen Wang

- 13:30-14:05 **Chia-Chun Jay Chen**
Applications of Functionalized Nanorods and Nanotubes for Biomolecule Delivery



- 14:05-14:40 **Yufeng Lu**
Self-Assembled Hierarchical Porous Materials
- 14:40-15:15 **Yan Hao**
DNA based self-assembly of nanostructures
- 15:15-15:45 Coffee Break
- 15:45-16:20 **Lei Jiang**
*Design and Fabrication of Intelligent Biomimetic
Micro/Nano Complex Materials*
- 16:20-16:55 **Shuhong Yu**
*Polymer Controlled Crystallization of Inorganic
Materials*
- 16:55-17:30 **Kai Wu**
*Fabrication of Crystalline Nanonets by Interfacial
Reaction Growth*
- 17:30-17:45 Conclusion Remarks
- 17:50 –20:30, Sightseeing and Dinner



Local Secretariat

Ding Ma

Xiulian Pan

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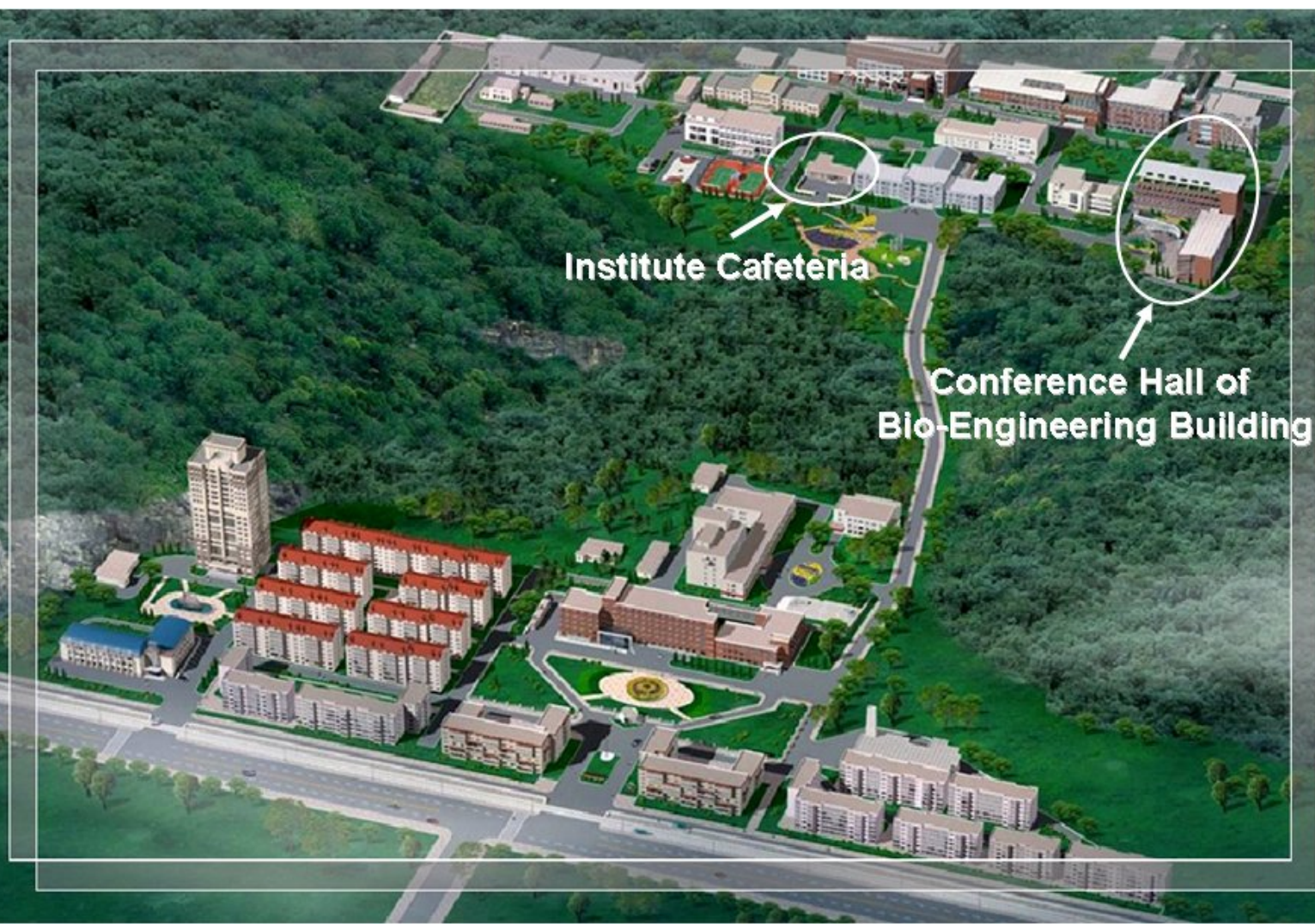
Question and Answer:

1. *How can I go to the Air-China Hotel Dalian from Dalian International Airport?*

Taking taxi , it will cost you RMB27 more or less. And you will arrive at the hotel within 20 mins. A local Map is shown below.

2. *Is Air-China Hotel Dalian far from the Dalian Institute of Chemical Physics?*

NO, just within the walking distance. Also you may go sightseeing in Xinghai Square, the largest square in Asia where locates next to the hotel.



Air-China Hotel Dalian (Ground Floor).

5. *Can I visit laboratory of DICP?*

Yes, we have site visit program on 22nd June. If you would like to join, please contact Miss Shi Yin for the arrangement of lab tour if you arrive on 22nd June

6. *What is the working Language of this Workshop*
Chinese

7 . *Is there any poster section?*

Yes, you are welcome to bring posters of your other research works with you. There is a very large indoor area outside our conference room which can accommodate more than 100 posters.

General Information

1. The City: Dalian

Unlike the heavily touristy areas in China (i.e. Beijing, Xi'an, and Hangzhou), that contain numerous palaces, temples and museums, and that emphasize their long history and rich culture, Dalian offers you a totally different experience.

Dalian started out as a small fishing village a little over 100 years ago. Since then Dalian has seen its share of triumphs and tragedies: The first half was a period full of power struggles and disasters, whereas the second got more stable and saw more growth and prosperity.



In 1894, the Sino-Japanese War broke out, and later in 1895, Japan gained the Liaoning Peninsula. The Qing Government wrest the land back the same year, yet in 1898 the court ceded Dalian (Dalian) to Russia again.

In 1899 Russia changed the name of "Dalian" to "Dalny", which means "a faraway city" in Russian. Russia's main objective was to develop the Dalian and Lushun port facilities and allow for easier transit to Siberia and inland locations in Russia.

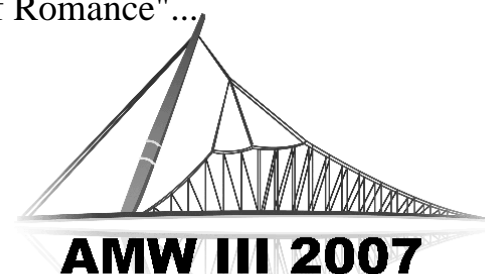
This occupation was short lived. In 1905, after its victory in the Russia-Japan War, Japan recaptured the city. For the locals this was a period of great confusion and sorrow.

In August 1945, the last of the hostile foreign troops left, leaving Dalian to become the first liberated city in the newly founded People's Republic of China. From then on Dalian has developed into an important base for heavy industry.

It has been well-known for its excellence in port development, shipbuilding and locomotive manufacture. In 1984, Dalian began to open up with the aim of building itself into a regional hub for communication, trade, finance, information, and tourism. In 1988, the Dalian International Fashion Festival began.

In 1992, under the "Aiming at the best instead of the largest" concept, the local government launched a drive to modernize and beautify the city.

This program has been immensely successful and Dalian was soon bestowed with honors such as the "International Excellent Model of Environment Improvement", the "UN Human Habitat Award" and the "Global 500 Roll of Honor for Environment Achievement". "Fashion City", "Soccer City", "Home of Track and Field", "City of Romance"...



Dalian, nestles upon fresh green mountains, and links with deep-blue sea; Dalianese, bearing the amicability of the mountain and hospitality from the sea, open their arms, to embrace your coming.

2. Badges

Participants are kindly requested to wear their official identification badges at all times during the workshop and social event.

3. Weather

The temperature during June commonly ranges from 23 (sometimes below 20 in early morning and night) centigrade to 30. Air-China Hotel Dalian is air-conditioned and the temperature inside is around 23 centigrade. Therefore, apart from light summer clothing, a long sleeved shirt or a light coat is recommended to bring for indoor activities or evening outdoor activities when the temperature decreases and gets cool. It seldom rains in summer. For ladies, a sun-bonnet or a pair of sunglasses is advisable when there could be seashore activities or excursions.

May and June are the best season of the year; the trip to Dalian must leave you with a very pleasant memory!

4. Insurance

The Local Organizing Committee of AMW III 2007 is not responsible for any personal injury, damage or loss of property, which may occur in connection with this workshop or any of the programmed events. Therefore, in case of any the above instance, we kindly suggest that participants carry their own insurance policies.

