



International Union of
Theoretical and Applied Mechanics

IUTAM Symposium on Surface Effects in the Mechanics of Nanomaterials and Heterostructures



August 8-13, 2010

Peking University, Beijing, China
Co-sponsored by BICTAM, Beijing, China



SCIENTIFIC COMMITTEE

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IMPORTANT DATES

Jan 15th, 2010	Deadline for submission of Abstract
May 1st, 2010	Deadline for registration
Aug 8th, 2010	Deadline for submission of final paper

SYMPOSIUM WEBSITE

The website of the symposium is <http://iutam symp.coe.pku.edu.cn>.

Symposium Theme

Nanomaterials and heterostructures have a large fraction of their atoms at interfaces, e.g. at the interface with a gas, liquid or other solid phase. These atoms see a different environment to those in the interior and can have a substantial effect on the overall mechanical and physical behaviour. The past decade has witnessed a growing interest in the study of interfaces and how the interface behaviour couples with that of the bulk to determine the overall system response.

It is therefore timely to gather together the most active scientists in the fields of solid mechanics, composites, materials physics and surface chemistry to present and summarize state-of-the-art research results in these research areas with a view to advancing the frontiers of mechanics. Within this overarching theme, the prospective topics which will be covered by this symposium are:

- ◆ Extension of continuum mechanics and thermodynamics to the nano-scale
- ◆ Phase transformation and phase equilibrium of nanomaterials and structures
- ◆ Multiscale simulations of nanomaterials and structures
- ◆ Surface effects in the mechanics and physics of monolithic nano-scale elements
- ◆ Surface and interface effects in the mechanical and physical properties of heterogeneous materials and structures
- ◆ Self-assembly of devices on surfaces

We also intend to dedicate this IUTAM Symposium to Professor Bhushan L Karihaloo of Cardiff University on his impending retirement, in recognition of his contributions to the fields of solid mechanics and nanomechanics, and to IUTAM activities in general.

Participation

Participation in the Symposium is by invitation only. Prospective participants are asked to submit a one page abstract stating main results and conclusions. All the abstracts will be reviewed and authors of accepted contributions will receive a formal invitation letter. Abstracts must be in Microsoft Word format only, and should be sent by e-mail to the Symposium Chairmen no later than **Jan 15th, 2010**.

Registration and Accommodation

The registration fee is 450 USD. The registration fee covers admission to technical sessions, lunches and refreshment breaks, dinners, conference banquet, half-day excursion, and a copy of the Symposium Proceedings which will be published by Springer.

The Symposium will be held in The Lake View Hotel by the campus of Peking University. The information of the two recommended hotels for the Symposium is attached.

Local Organizing Committee

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Accommodation

Special room rates have been secured for the Symposium. We will send the reservation form together with the second announcement.

Hotels for Symposium (Rates in USD, approximate)

Hotels	Standard room (Deluxe Room)		Business Suite		Rooms Available	Distance from conference Venue
	Normal rate/(night)	Special rate/(night)	Normal rate/(night)	Special rate/(night)		
The Lake View Hotel (5-Star)	/	120	/	210	30	Symposium venue
Zhongguanyuan Global Village	90	60			20	15 minutes walk

Brief introductions of the two hotels are given below. Please visit their websites for more information.

The Lake View Hotel (5-Star)

Tel.: + 86 10 8268 9999, Fax: +86 10 8268 9998

Web: <http://www.thelakeviewhotel.com.cn>

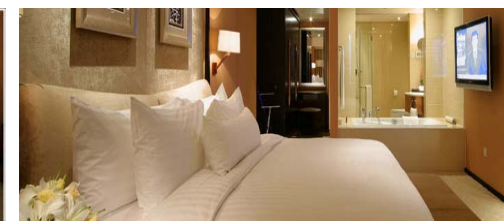
Add.: No.127, Zhongguancun North Road, Haidian District, Beijing 100080, China



The Lake View Hotel is a modern five-star hotel, located near the Weiming Lake of Peking University, with spacious and comfortable guest rooms. The hotel is close to many famous places, such as Peking University, Tsinghua University, the Summer Palace, the Garden of Perfection and Brightness, and the Zhongguancun, known as the “Silicon Valley of China”.



Standard Room



Business Suite

Zhongguanyuan Global Village

Tel.: + 86 10 6275 2288, Fax: +86 10 6275 2236

Web: <http://www.pkugv.com>

Add.: No. 216 Zhongguancun North Road, Haidian District, Beijing 100871, China

Zhongguanyuan Global Village is located to the east of Peking University campus, and is within walking distance to the Symposium venue (15 minutes). Good quality, modern rooms, with standard service and a low price make it an ideal choice for students or participants on an economic budget.

