

The US-China NSF Workshop and Summer Institute of Bio- and Nano-Mechanics and Applications (UCWSI2007)

August 31 – September 4, 2007

Beijing, China

Bio- and Nano-mechanics and their applications are playing an increasingly important role in the growth of global economy. Based on the interplay between bio- and nano-mechanics, the new generation of bio materials has unique structures and properties and could revolutionize not only the medical practice in particular but also the life science and engineering in general. To promote the international collaboration among researchers, educators and practicing engineers, the US-China NSF Workshop and Summer Institute of Bio- and Nano-Mechanics and Applications (UCWSI2007) will be held in Beijing during August 31 – September 4, which is sponsored by both US-NSF and China-NSF, as well as Tsinghua University and Dalian University of Technology in China.

The UCWSI2007 consists of a summer institute and workshop with sessions in different subtopics of bio- and nano-mechanics and applications. In the summer institute, invited comprehensive lectures will be delivered to young researchers by the leading experts in the field. In the workshop, both invited and contributed speakers will introduce the cutting-edge research topics, which provide the summer institute participants with another opportunity to learn in addition to comprehensive lectures. For the workshop, presentations are solicited in all the subtopics related to bio- and nano-mechanics as well as applications, which include but are not limited to the following:

- Applications of nano and bio mechanics and materials
- Impact of nanomaterials on infrastructure materials design
- Multiscale modeling and simulation in bio mechanics
- Nanomechanics of biomaterials and composites
- Nano-scale experiments in life science and engineering
- Optimization of multiscale microstructures of biomaterials
- Nanomaterials for drug delivery and treatment
- Compatibility of nanomaterials with biological materials
- Reliability of nanomaterials for biomedical applications
- The interface between nano and bio mechanics

Both invited and contributed abstracts from the workshop as well as the lecture notes from the summer institute will be published in the UCWSI2007 proceedings and posted on the UCWSI2007 website (<http://www.cstam.org.cn/show.asp?unid=2006052241>). Limited travel funds are available for young researchers in the US, based on the quality of accepted abstracts.

Deadline

One-page abstracts are due by July 10, 2007, and the acceptance of the abstracts will be determined by July 15, 2007.

Contact Information

For US participants, contact Professor Zhen Chen via Email (chenzh@missouri.edu)