



NEWSLETTER

Report on the BICTAM in 2008

BICTAM Symposia in 2009

BICTAM Website: <http://www.bictam.org.cn>

**Beijing International Center for Theoretical and Applied Mechanics
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Report on the BICTAM in 2008

During 2008 the secretariat of our Center has been established at the Institute of Mechanics, Chinese Academy of Sciences, supported by the CSTAM, which can provide a platform to facilitate academic exchanges. The Center's program was announced in May 2008, which included two symposia and two summer courses in 2008, two symposia in 2009, and one workshop in 2010. The short report on the Center in 2008 includes the following items:

Item1: Summer Schools and Symposia

The program of courses and symposia, planned for the Center for 2008, took place on schedule. In 2008 there were two Summer Schools, which were both attended well. One school was organized by Xiangtan University; the other was sponsored by Peking University. Additionally, there was two symposia in 2008, which included the fields of Computational Mechanics of Materials, Biomechanics and related sciences.

Summer School on Surfaces and Interfaces in Solid Matters

Place	Peking University, Beijing, China
Date	July 8-17, 2008
Organized by	Professor J. X. Wang, Peking University
Topics	Atomic-scale geometry Structure-energy relations Thermodynamics Electronic structure etc.
Lecturer	Professor PD Dr. Jörg Weißmüller (Karlsruhe Institute of Technology, Germany)
Attendees	30 Post-graduate students

Summer School on Multi-field Coupling Theory and Smart Materials

Place	Xiangtan University, Hunan Province, China
Date	August 6-22, 2008
Organized by	Professor Y. C. Zhou, Xiangtan University
Topics	Multi-scale Mechanics Ferroelectric/Ferromagnetic Materials and Multi-field Coupling Theory

Mechanics of Special Materials and Structures etc.
Attendees More than 100 graduate students

Symposium on Computational Mechanics of Materials

Place Beijing Institute of University, Beijing, China
Date October 7-9, 2008
Organized by Professor Huang Yuan, Engineering University of Wuppertal
Gaußstr, Germany
Professor Gengkai Hu, Beijing Institute of University
Professor Changle Xiang, Beijing Institute of University
Topics Nano, micro and micromechanical modeling
Nonlocal damage modeling
Damage and fracture etc.
Attendees 71 delegates from China, Germany, France, Czech and UK

Symposium on Mechanics and Biomimetics of Biomaterials & Animal Locomotion

Place Sanya, Hainan Province, China
Date December 9-11, 2008
Organized by Professor X. Q. Feng, Tsinghua University, China
Professor M. Sun, Beijing University of Aeronautics and
Astronautics, China
Topics Structures and Properties of natural materials
Behaviors of swimming, flying and running of animals etc.
Attendees More than 50 delegates from China, Germany, Japan, USA
and UK

Mini-Course on the Principles of Plasma Discharges

Place BICTAM Office, Beijing, China
Date October 16-17, 2008
Organized by Professor Y. K. Pu, Tsinghua University, China
Topics Summary of Plasma Fundamentals
Summary of Discharge Fundamentals
Analysis of Discharge Equilibrium
Inductive RF Discharges
Lecturer Professor Michael A. Lieberman, University of
California-Berkeley, USA
Attendees 30 graduate students

The South China Sea Tsunami workshop

Place	The Shanghai Jiaotong University, Shanghai, China
Date	December 1-3, 2008
Organized by	Professor Hua Liu, Shanghai Jiaotong University, China
Topics	Potential seismic risk under the sea of the Manila Trench Mechanism of the tsunami disaster The key technology of the development of an early warning system etc.
Attendees	35 delegates from China, Vietnam, Singapore, Malaysia, Philippine and other countries and areas

Item2: BICTAM website

The BICTAM website, <http://www.bictam.org.cn>, continues to run smoothly. Due to the beginning of the activities of the Center, the quantity of information on the website is still growing. Any suggestions for the Center's website you may wish to make would be welcome.

Item3: Secretariat facilities

The Secretariat had been established in December 2007, which is located in the Institute of Mechanics, CAS in Beijing, China. The facilities of the Secretariat include six offices for visiting scientists, a classroom holding 22 persons, a meeting room seating 40 persons and an administrative office with the basic office equipment and fast network connection. Until now more than 10 scientists from UK, USA, Germany, Australia, India, France and Taiwan, China had made short visits at the Secretariat of the Center.

Table List of Visiting Guests (December, 2007 – June, 2009)

Title	Name	Institution	Research Fields
Professor	Y T Cheng	University of Kentucky, USA	Material Engineering
Professor	Parviz Moin	Stanford University, USA	Mechanical Engineering
Professor	Lianping Wang	University of Delaware, USA	Fluid Mechanics
Dr.	A, Calvin Lui	Rose-Hulman Institute of Technology, US	Mechanical Engineering

Professor	Fuqian Yang	University of Kentucky, USA	Chemistry & Material Engineering
Ms	Y. Xiong	France	Solid Mechanics
Graduate student	Deepesh Agarwal	Indian Institute of Technology, Delhi, India	Biochemistry Engineering & Biotechnology
Professor	Lu Ting	New York University, USA	Applied Mathematics
Senior Lecturer	L. Tao	Griffith University, Australia	Ocean Engineering
Dr.	Bo Liu	University of California-Riverside, USA	Mechanical Engineering
Associate Professor	J. Wang	Virginia Polytechnic Institute	Plasma Engineering
Professor	Joerg Weissmuller	Institute of Nanotechnology, Germany	Material Physics
Professor	Z. Y. Yang	Institute of Applied Mechanics, Taiwan, China	Computational Aerodynamics
Professor	P. K. Yeung	Georgia Institute of Technology, USA	Fluid Mechanics
Associate Professor	Chan, Kwok-Tung	Hong Kong Polytechnic University, UK	Mechanics
Post-Doc	Christopher Pipe	UK	Micro Fluid Mechanics

BICTAM Symposia in 2009

The coming symposia will both be held in October sponsored by the Center this year.

Symposium on Multi Phase Flow in Atmospheric Boundary Layer: Wind Erosion, Dust Storms

Dates: October 16-18, 2009

Venue: Lanzhou University, Gansu Province, China

Organized by: Professor Xiaojing Zheng (Lanzhou University, China)

Brief introduction: go to <http://www.bictam.org.cn/show.asp?id=433>

Symposium on Meshfree/Meshless, Particle and Generalized/Extended Finite Element Methods

Dates: October 12-16, 2009

Venue: Nanjing, Jiangsu Province, China

Organized by: Professor Mingwu Yuan (Peking University, China)

Website: <http://em.hhu.edu.cn/ismpefem/index.asp>

As planned in the program of BICTAM for 2008-2010, the Center could provide some financial support to students in Asia and the Pacific participating in the activities. If you wish to recommend a student or researcher for some symposium please contact Prof. Xiaojing Zheng (xjzheng@lzu.edu.cn) and Prof. Mingwu Yuan (yuanmw@pku.edu.cn).