



INTERNATIONAL UNION OF
THEORETICAL AND APPLIED
MECHANICS



**23rd INTERNATIONAL CONGRESS
OF THEORETICAL AND APPLIED
MECHANICS**

Hosted by
The Chinese Society of Theoretical and Applied Mechanics (CSTAM)
Professor Haiyan Hu (President)

August 19-24, 2012
Beijing, China

Final Announcement
and
Call for Papers

December 2011

<http://www.ictam2012.org>

General Information

Date and Venue

The 23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012) will be held in **Beijing, China, from August 19 to 24, 2012**. The Congress is hosted by **The Chinese Society of Theoretical and Applied Mechanics (CSTAM)**. The Congress venue is the **China National Convention Center (CNCC)**, which is located in the heart of the Olympic Green of Beijing, adjacent to the National Stadium (Bird's Nest) and the National Aquatics Center (Water Cube).

The Local Organizing Committee (LOC)

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About IUTAM and its Congresses

The International Union of Theoretical and Applied Mechanics (IUTAM) was formed in 1946 with the objective of creating a link between persons and national or international organizations engaged in scientific work (theoretical or applied) in solid and fluid mechanics or in related sciences. It does so mainly by organizing international meetings to deal with scientific problems. An International Congress on Theoretical and Applied Mechanics (ICTAM), including minisymposia and pre-nominated sessions, is held every four years. It is organized by the Congress Committee, established by the IUTAM General Assembly. Additionally, a number of specialized Symposia with invited participants are held every year. These IUTAM Symposia are sometimes held in cooperation with other Unions adhering to the International Council for Science or with the 18 organizations affiliated to IUTAM. At present there are 49 Adhering Organizations, each of them representing scientific activity in the field of mechanics in a country or a particular geographical region. ICTAM2012 follows twenty-two such Congresses organized all over the world since 1924:

1. 1924 Delft, The Netherlands
2. 1926 Zürich, Switzerland
3. 1930 Stockholm, Sweden
4. 1934 Cambridge, UK
5. 1938 Cambridge, USA
6. 1946 Paris, France
7. 1948 London, UK
8. 1952 Istanbul, Turkey
9. 1956 Brussels, Belgium
10. 1960 Stresa, Italy
11. 1964 Munich, Germany
12. 1968 Stanford, USA
13. 1972 Moscow, USSR
14. 1976 Delft, The Netherlands
15. 1980 Toronto, Canada
16. 1984 Lyngby, Denmark
17. 1988 Grenoble, France
18. 1992 Haifa, Israel
19. 1996 Kyoto, Japan
20. 2000 Chicago, USA
21. 2004 Warsaw, Poland
22. 2008 Adelaide, Australia

Call for Papers

Congress participants are encouraged to submit papers. Papers are sought for all topics. The official language of the Congress is English. The paper should present material that is novel and preferably unpublished at the time of the Congress. Prospective authors are asked to submit only one paper for consideration. No author will be invited to present more than one paper, with the exception that an author may present one paper on Education in Mechanics and another paper in one of the other sessions. Submission of an Abstract and a Short Paper should be performed on the Congress website. Submission of a paper for consideration requires three steps:

1. Registration for Submission of Paper

All contributors are requested to register themselves using the *Paper On-Line Submission* function on the Congress website. The contributor is requested to input a valid email address, which will be used together with a password to log in to an account to submit the Abstract.

2. Submission of Abstract

The Abstract is limited to 150 words. It should not contain figures, drawings or extended references. The contributor can also choose whether he/she wishes to be considered for the IUTAM Bureau Prize, and can also choose the preferred presentation type (lecture/seminar presentation). Abstracts of all papers invited for presentation will be printed in the Abstract Book. After the submission is completed, the contributor will receive a confirmation email. Then the contributor can log in to the system to submit the Short Paper.

3. Submission of Short Paper

The Short Paper will be used for evaluation by the International Papers Committee. It must have the same title and list of authors as the Abstract. A Short Paper which does not match up with the submitted Abstract in terms of title or names of authors will not be considered. The Short Paper has to be prepared in PDF format and is limited to **TWO** A4 or 8½×11 inch pages maximum. A Short Paper which is more than two pages will be returned. It should be prepared as attractively as possible, much like a manuscript for journal submission. The text must be 10 point or larger in size. To submit the Short Paper, use the *Paper On-Line Submission* function on the Congress website at <http://www.ictam2012.org>.

A template for preparing the Short Paper is provided on the website. If access to the website is not available, please request instructions by sending an e-mail to: ictam2012@cstam.org.cn.

Submissions are accepted after September 1, 2011. The Abstract and Short Paper must reach the Secretariat no later than Thursday, January 19, 2012.

Contributors will be informed of the decision of the International Papers Committee, and on the assignment of their paper to a session, before April 10, 2012. The author of a paper invited for presentation is expected to register and present the paper at the Congress.

Lecture Sessions

Papers selected for presentation as lectures will be arranged by subject in about 17 parallel sessions. A period of 15 minutes, plus 5 minutes discussion, will be allotted to each paper. Standard audio-visual equipment (PC, computer projector, screen, microphone, and pointer) will be available

in each lecture room. Other equipment will be made available if requested by **July 20, 2012**. Authors using computer presentations are requested to upload their files to the Congress server before **August 10, 2012** and to bring their presentation on a CD-ROM. The file format should be PDF, MS PowerPoint or MS Word. Full details of projection facilities will be published on the Congress website and communicated to all lecturers by **May 1, 2012**.

Seminar Presentation Sessions

Authors of papers selected for presentation in the seminar format will be expected to give their presentation during a 2.5-hour period organized as follows: In the first hour each author will present a brief summary (3 minutes) in conventional lecture-room format during one of several parallel sessions. In the remaining time authors will present their work concurrently in more detail with the aid of their posters. The Congress will provide poster boards and stands. The usable area of a poster panel is approximately 1.1m (height) by 1m (width). Instructions for preparing posters will be announced on the Congress website. Authors are advised to read the details.

Publications

Abstracts and Short Papers

An Abstract Book and a CD-ROM containing all Short Papers to be presented at ICTAM2012 will be distributed to registered participants at the Congress. The Abstract Book will be published and registered with an ISBN number.

Proceedings

An e-only Proceedings published by Elsevier will appear after the Congress. It will contain the text of the Opening and Closing Lectures, as well as the Batchelor and Hill Prize Lectures, Sectional Lectures and the Introductory Lectures of the Mini-Symposia; a list of all contributed papers presented at the Congress (but not the Abstracts); a list of participants in ICTAM 2012; and a general report on the Congress, which will be published in the Elsevier Procedia IUTAM indexed at the ScienceDirect and Scopus.

Programme

A booklet summarizing session locations and times, and social events will be distributed to registered participants at the Congress.

List of Participants

A preliminary list of participants attending ICTAM2012 will be distributed at the Congress. The official list will appear in the Congress Proceedings.



August 19 – 24, 2012

Beijing · China

Abstract Book

23rd International Congress of
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Editors: Yilong Bai
Jianxiang Wang
Daining Fang



International Union
of Theoretical and
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**WELCOME
TO ATTEND
THE 23RD ICTAM
IN BEIJING!**

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Abstract Book of the 23rd International Congress of Theoretical and Applied Mechanics

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