

Second Announcement

The 23rd International Toki Conference (ITC-23) on
“Large-scale Simulation and Fusion Science”

November 18-21, 2013

Ceratopia Toki, Toki-City, Gifu, Japan

<http://itc.nifs.ac.jp>

Scope

Nowadays, Petascale supercomputers are being developed towards Exascale systems. Moreover, modeling and simulation techniques which are suitable for exascale computing are also developed energetically. On this background of supercomputer capability, the design of a Demo nuclear fusion reactor and the related numerical simulation research are being promoted intensively. On this occasion, the 23rd International Toki Conference (ITC-23) will focus on Large-scale Simulation and Fusion Science research. The frontiers of simulation science in plasma and fusion research will be the main scope.

Topics

- (1) The Leading Edge of Large-scale Numerical Simulation
High Performance Computing, Exascale Computing, Simulation Techniques,
Multi-Scale and Integrated Simulation
- (2) Magnetically-Confined Fusion Plasmas
Confinement, Stability, Transport, Heating, Modeling of Core and Edge Plasmas
- (3) Inertially-Confined Fusion Plasmas
Central and Fast Ignition, High Energy Density Physics, and Laser Plasma
Interaction
- (4) Fusion Engineering and Fusion Reactor Concepts
Materials, Reactor Design, and Fusion Technologies
- (5) Space and Astrophysical Plasmas
Sun, Jets, Accretion Disks, Magnetosphere, Reconnection, and Space Weather
- (6) Basic Plasma Research and Plasma Applications
Waves and Instabilities, Atomic Processes, Molecular Dynamics, and Plasma
Processing
- (7) Imaging Science
Scientific Visualization, Virtual Reality, and Diagnostic Imaging

Meeting format

The meeting will consist of invited and contributed oral presentations, and poster sessions. The abstracts will be selected by the Program Committee as either oral or poster presentations. A projector with a laptop personal computer (PC) will be available for oral speakers to present their papers. Power Point or PDF formats are recommended. The official language of the meeting is English.

A tentative timetable of the conference program is as follows:

Nov.18 (Mon)	Nov.19 (Tue)	Nov.20 (Wed)	Nov.21 (Thu)
8:45 Registration 9:15 Opening 9:45 Group Photo	9:00 Oral #5	9:00 Oral #7	9:00 Oral #9
10:10 Oral #1			
10:50 Coffee Break	10:40 Coffee Break	10:50	10:40 Coffee Break
11:10 Oral #2	11:00 Oral #6	Poster #1 Coffee Service at Poster	11:00 Oral #10
12:30 Lunch Break	12:40 Lunch Break	12:20 Lunch Break	12:10 Lunch Break
13:50 Oral #3	13:30 Technical Tour	13:40 Poster #2 Coffee Service at Poster	13:30 Oral #11
15:40 Coffee Break		15:10 – 17:30	15:00 Closing
16:00 – 17:40 Oral #4		Oral #8	(Time is tentative.)
18:30 Mayor's Reception for Foreign Participants	18:30 Open Lecture for Citizens	18:30 Banquet	

Abstract submission

Individuals who intend to contribute a paper should select the topical category and submit a one-page A4 abstract through the abstract submission web site

(<https://itc-office.nifs.ac.jp/itc23>) by **August 16, 2013** (The deadline of abstract was postponed). Abstracts should be sufficiently detailed in describing the aim of the work and the obtained results. The Program Committee will select the papers on the basis of the submitted abstracts.

Abstracts should be prepared by using Microsoft Word or TeX editor. Template and sample files (PDF, Word and LaTeX) can be downloaded from <http://itc.nifs.ac.jp>. After you write a document, please create a PDF file of your abstract. The submission web site can upload only PDF files.

Authors will be notified of acceptance of abstracts and assignment of their papers into sessions by ~~August 31, 2013~~ **September 7, 2013**. The accepted abstracts will be bound as a booklet and distributed to participants at the conference. They will be posted on the conference web site as well.

Note: Each person can submit only one paper as a first author. The first author is expected to present the paper at the conference.

Journal publication

Original articles related to the conference topics, are encouraged to be submitted to Plasma and Fusion Research (<http://www.jspf.or.jp/PFR/>) which is an electronic journal published by the Japan Society of Plasma Science and Nuclear Fusion Research. The papers will go through a complete peer-review process. Only the papers reporting original and previously unpublished work will be accepted and published as regular articles in the academic journal, PFR. Invited speakers who present a talk reviewing previous works at the conference may be suggested by the editorial board to submit a paper in the category of "Overview articles". The maximum length of the manuscript is 8 pages for Invited talks, and 4 pages for Contributed papers in the PFR format. A submission fee (Article charge: 3,000 JPY + Page charge: 5,000 JPY/page) is required for publication. The submission fee and reprint fee are NOT included in the registration fee.

Note: The first author of the proceedings paper is expected to be the same as the one on the presentation at the conference.

Registration

The principal author must be a conference registrant. All registrations (other than abstract submission) will be made on-line via the conference web site (<http://itc.nifs.ac.jp/>). Registration fee must be paid by credit card or bank transfer. For more information, login (by creating first an account if you haven't created one yet) and go to "Registration" link on the conference web site. All attendees are requested to register by October 4, 2013.

The registration fee is 20,000 JPY (15,000 JPY for students). The registration fee covers:

- (1) Access to all sessions of the scientific program

- (2) An abstract booklet
- (3) Coffee break refreshments
- (4) Conference banquet

*Note: Payment of the banquet fee is mandatory regardless of attendance, however a separate receipt for the registration fee excluding the banquet fee can be obtained on request.

Technical Tour

The host institute, the National Institute for Fusion Science (NIFS), is happy to invite all participants and their accompanying persons to a technical tour of the Large Helical Device (LHD) facility and the other sightseeing places, nearby.

Conference Banquet

A conference banquet will be held. Participants are invited to the banquet without additional payment. Accompanying persons are welcome to join the banquet upon an additional payment (5,000 JPY).

Accommodation

Information and rates for various hotels in Toki and Tajimi cities are listed in the web site. Specific information such as directions can be obtained at the link for each hotel. Participants must make their reservations with the hotels directly by Internet, telephone or FAX.

Visa

In case you need a visa to enter Japan, required official documents will be provided through the Local Organizing Committee (itc23-visa@nifs.ac.jp) after acceptance of your abstract, upon request.

Important dates

Start of on-line abstract submission: July 5, 2013
Deadline for abstract submission: **August 16**, 2013
Notification of abstract acceptance: **September 7**, 2013
Deadline for request of official documents required for visa: **September 18**, 2013
Deadline for registration: October 4, 2013
Deadline for paper submission: November 18, 2013
Conference: November 18-21, 2013

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