

Final 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

Program

A timetable of the conference program is as follows:

ITC23 Program

| Nov.18 (Mon) | Nov.19 (Tue) | Nov.20 (Wed) | Nov.21 (Thu) |
|--|---|--|--|
| 8:45 Registration | Oral #5 (chair: Sugama) | Oral #7 (chair: Yagi) | Oral #9 (chair: Ascasibar) |
| 9:15 Opening (chair: Horiuchi) | 9:00 I-7 Barnes | 9:00 I-9 Chang | 9:00 I-12 Snyder |
| 9:45 Group Photo | 9:40 O-4 Nikolic | 9:40 I-10 Hoshino | 9:40 O-11 Nishimura |
| Oral #1 (chair: Horiuchi) 10:10 I-1 Waelbroeck | 10:10 O-5 Gotoh | 10:20 O-8 Li | 10:10 O-12 Bolzonella |
| 10:50 Coffee Break | 10:40 Coffee Break | 10:50 Poster #1 Coffee Service at Poster | 10:40 Coffee Break |
| Oral #2 (chair: Spong) 11:10 I-2 Lin 11:50 I-3 Todo | Oral #6 (chair: Okamura) 11:00 I-8 Yokoyama 11:40 O-6 Romaneli 12:10 O-7 Lee | | Oral #10 (chair: Skoric) 11:00 I-13 Hinkel 11:40 O-13 Mima |
| 12:30 Lunch | 12:40 Lunch | 12:40 Lunch | 12:10 Lunch |
| Oral #3 (chair: Peng) 13:50 I-4 Bhattacharjee 14:30 I-5 Idomura 15:10 O-1 Usami | 14:00 Excursion & NIFS Tour | 14:00 Poster #2 Coffee Service at Poster | Oral #11 (chair: Ishiguro) 13:30 I-14 Tanaka 14:10 O-14 Cheng |
| 15:40 Coffee Break | | Oral #8 (chair: Blackwell) 15:50 I-11 Corr 16:30 O-9 Ito 17:00 O-10 Kobayashi | 14:40 Closing |
| Oral #4 (chair: Ohsawa) 16:00 I-6 Scott 16:40 O-2 Toida 17:10 O-3 Ohno | | | Invited talk: 40 min. Oral talk: 30 min. |
| 18:30 Mayor's Reception for Foreign Participants | 18:30 Open Lecture for Citizens | 18:30 Banquet | |

Instructions for Oral Presenters

A laptop computer connected to a projector will be prepared for speakers. The operating system used for oral presentations is Windows 7. Microsoft Power Point and Adobe Acrobat Reader are installed in the computer. Speakers are cordially asked to transfer their presentation files to the computer by USB flash memory sticks before their session will start. Otherwise, speakers can bring and use their own laptop for the presentation. In the presentation, please leave time for discussion, which is 8 min for Invited talks and 6 min for Contributed Oral talks. The official language of the meeting is English.

Instructions for Poster Presenters

The poster sessions will utilize standard poster boards. The poster size is limited to 180 cm in width and 120 cm in height. The title and authors should be printed in large characters (greater than 3 cm high) at the top of the poster. Posters should be removed immediately following the conclusion of the session.

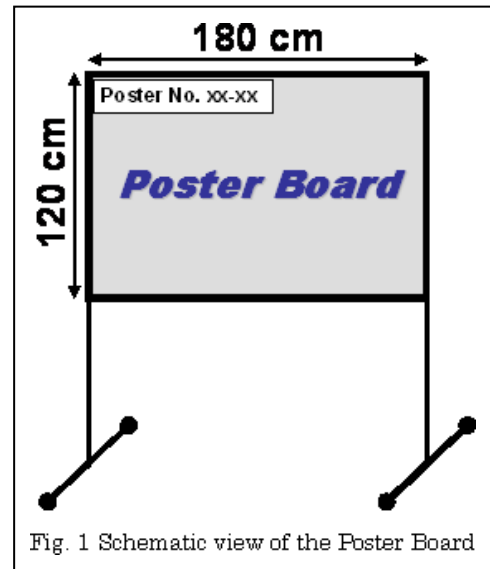


Fig. 1 Schematic view of the Poster Board

Booklet of Abstracts

A printed booklet of abstracts of invited and contributed presentations will be distributed to participants at the meeting desk.

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.

Paper Submission

To submit your manuscript, visit the submission page of PFR for ITC-23 papers, complete the online author submission form and upload your manuscript. The PERAS online submission site will open from Nov. 6th till 21st. The URL link to the site will appear on

the ITC-23 Web page later.

When you use the PERAS system for the first time, please create your new account. If you have your own account on PFR and forget your password, go to “Forgotten password” to reset your password. The manuscript must start with a cover page, included in the template, in order to assign your submission to the ITC-23 Proceedings. Sample format for the manuscript with cover page (Microsoft Word or LaTeX) is available at (<http://itc.nifs.ac.jp/#j12>).

When submitting a manuscript, please select “Regular Article” for the type of paper, unless you are suggested for another type of paper by the Editor. If you have multimedia files to be accompanied, please contact the editorial board (itc23-edit@nifs.ac.jp).

Technical Tour (Excursion & NIFS Tour)

The host institute, the National Institute for Fusion Science (NIFS), is happy to invite participants and their accompanying persons to a technical tour of the Large Helical Device (LHD) facility and the other sightseeing places, nearby. The tour will depart from the Ceratopia Toki after lunch at 14:00 on Tuesday, November 19. The tour by coach will visit Kokeizan Eihoji Temple and Kobei-gama, a historic pottery, for sightseeing. Then, the tour will visit NIFS. The world’s largest superconducting device, the Large Helical Device (LHD) and other facilities will be introduced. After leaving NIFS, participants will be brought to hotels in Toki and Tajimi.

- Time schedule -

| | |
|-------|----------------------------|
| Date | Tuesday, November 19, 2013 |
| Time | Destination |
| 14:00 | Ceratopia Toki |
| 14:30 | Kokeizan Eihoji Temple |
| 16:00 | Kobei-gama |
| 17:30 | NIFS |
| 19:00 | Hotels in Toki and Tajimi |

Please register for the tour at the reception desk in the conference site, if you have not done online. The admission fee for the museum at Kobei-gama (240 yen) will be collected.

*Maximum 100 people.

Conference Banquet

A conference banquet will be held from 18:30, Nov. 20 (Wed) at 1st Floor of Ceratopia Toki.. 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 for various hotels in Toki and Tajimi cities are listed on 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.

*Note: The transportation between the hotels and the conference site will be the

responsibility of the participants.

Access

The conference site 'Ceratopia Toki' is located about 0.4 km from Toki-shi station on the Japan Railway (JR) Chuo-line. From Tajimi, use the JR Chuo-line to Toki-shi station.

Important dates

Online paper submission: November 6 to 21, 2013

Conference: November 18-21, 2013

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