First 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 to be covered (tentative)
(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, Laser Plasma Interaction
(4) Fusion Engineering and Fusion Reactor Concepts
   Materials, Reactor Design, Fusion Technologies
(5) Space and Astrophysical Plasmas
   Sun, Jets, Accretion Disks, Magnetosphere, Reconnection, Space Weather
(6) Basic Plasma Research and Plasma Applications
   Waves and Instabilities, Atomic Processes, Molecular Dynamics, Plasma Processing
(7) Imaging Science
   Scientific Visualization, Virtual Reality, 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. PowerPoint or PDF formats are recommended. The official language of the meeting is English.

Abstract submission
Authors are invited to submit one-page abstracts of their contributed papers on-line before August 2, 2013. Detailed instructions on abstract submission will appear at the conference website at http://itc.nifs.ac.jp. A printed book of abstracts of invited and contributed papers will be distributed to participants at the conference.

**Conference proceedings and paper submission**

Original or review articles, related to the conference topics, are encouraged to be submitted to an academic journal, which will be announced later. Each submitted paper will be put through a peer-review process, and those accepted will be published as regular articles in the journal.

**Important dates**

- Start of on-line abstract submission: July 5, 2013
- Deadline for abstract submission: August 2, 2013
- Notification of abstract acceptance: August 31, 2013
- Deadline for request of official documents required for visa: September 11, 2013
- Deadline for registration: October 4, 2013
- Deadline for paper submission: November 18, 2013
- Conference: November 18-21, 2013

**VISAS**

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.

**International Advisory Committee**

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