

## **First Announcement**

The 23<sup>rd</sup> 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 23<sup>rd</sup> 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. Power Point 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](mailto:itc23-visa@nifs.ac.jp)) after acceptance of your abstract, upon request.

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