

**FIRST ANNOUNCEMENT AND CALL FOR PAPER**

**20th International Toki Conference (ITC-20) on  
The Next Twenty Years in Plasma and Fusion Science**

December 7 - 10, 2010  
Ceratopia Toki, Toki-City, Gifu, Japan

**SCOPE**

The International Toki Conference (ITC) has been continuously held reaching the 20<sup>th</sup> event this year. On this occasion, the 20<sup>th</sup> ITC will focus on the prospects for the next twenty years of plasma and fusion science, by reflecting on the progress achieved within the past years. The frontiers of simulation science in plasma and fusion research will be the main topic. At the same time, the academic systemization of plasma and fusion science should manifest itself in the 20<sup>th</sup> ITC, through the synergism of the diversity of research area, and progress of the leading edge.

**LIST OF TOPICS**

**1. Prospects for the Next Twenty Years in Plasma and Fusion Science**

**2. The Leading Edge of Simulation Science**

Multi-Scale Simulation, Large Scale Simulation, High Performance Computing, Simulation Technique

**3. Imaging Science**

Scientific Visualization, Virtual Reality, Diagnostic Imaging

**4. Magnetically-Confined Fusion Plasmas**

Confinement, Stability, Wave-Plasma Interaction, Heating & Current Drive, Diagnostics, Steady State, Diverter & SOL

**5. Inertial Fusion Energy**

Central Ignition, Fast Ignition, High Energy Density Physics, Warm Dense Matter

**6. Fusion Engineering and Fusion Reactor Concepts**

Materials, Reactor Design, Fusion Technologies

**7. Space and Astrophysical Plasmas**

Sun, Jet, Accretion Disk, Magnetosphere, Substorm

**8. Basic Plasma Research and Plasma Application**

**PLACE**

Ceratopia Toki (4 Tokitsu-Takayama, Toki 509-5121, Japan)

**CONFERENCE DATE**

December 7 (Tue.) – 10 (Fri.), 2010.

**LANGUAGE**

English is the working language of the conference.

**ABSTRACT SUBMISSION**

Abstract submission can be made **starting August 1, 2010** through the Conference web site (<http://itc.nifs.ac.jp/>). Authors are requested to submit one-page abstract **by August 31, 2010**. Papers should contain original and previously unpublished work on the conference topics. 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.

Authors will be notified on acceptance of abstracts and assignment of their papers into sessions **by September 30, 2010**. 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.

**REGISTRATION**

All registrations (other than abstract submission) can be made **starting October 1, 2010** through the Conference web site.

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**IMPORTANT DATES**

Start of on-line abstract submission:	August 1, 2010
Deadline for abstract submission:	August 31, 2010
Notification of abstract acceptance:	September 30, 2010
Start of on-line registration and hotel reservation:	October 1, 2010
Deadline for registration and hotel reservation:	October 31, 2010
Deadline for paper submission:	December 7, 2010
Conference:	December 7 - 10, 2010