

**Ninth China-Japan Symposium (CJS-9)
on Materials for Advanced Energy Systems and Fission & Fusion
Engineering jointed with CAS-JSPS Core-university Program
Seminar on Fusion Materials, System and Design Integration**

Date: October 23-26, 2007

Place: Guilin China

Organized by Southwestern Institute of Physics, CNNC, China

Chair persons:

K.M. Feng (Southwestern Institute of Physics, CNNC, China)

A. Kimura (Institute of Advanced Energy, Kyoto University, Japan)

Web Site

<http://www.swip.ac.cn/cjs9/>

Further information will be provided via above symposium web site.

1. Symposium Scope

One of the most important challenges in the 21th century is to develop a clean energy system by which the environment and life on a global scale will be well protected. Central to this issue is to develop economical energy sources with low carbon dioxide emissions. Options include renewables and nuclear fission and, potentially, nuclear fusion.

In the field of fission, R&D on advanced concepts like Generation-IV has been started including advanced materials and technologies. Intensive studies are continuing in respect of fuel cycling. Correspondingly, nuclear materials and fuels technology development are key issues for realization of advanced nuclear power reactors.

In the field of fusion, international agreement on the construction of ITER, the first experimental reactor to be built in Cadarache, France, has been signed by parties. As cooperation partners, China and Japan will have their contributions in promoting the ITER project and the concerning technologies. The China-Japan Symposium will be an important exchange vehicle on the areas of advanced materials, technologies and related issues for ITER.

The ninth China-Japan Symposium on Materials for Advanced Energy Systems and Fission & Fusion Engineering (Jointed with CAS-JSPS Core-university Program Seminar on Fusion Materials, System and Design Integration), organized by the Southwestern Institute of Physics, Chinese National Nuclear Industry Corporation (CNNC), will be held on Oct.23-26, 2007 in Guilin, a beautiful city in south of China. The symposium has been held every two years in China and Japan alternatively. Initiated in Hefei, China in 1993, the symposium has become an important forum for scientists to exchange new information about advanced materials and technologies for advanced energy systems and fission & fusion engineering. The ninth symposium to be held in Guilin will continue the topics on system & design, blanket & first wall technology, fission & fusion materials and technologies, radiation damage analysis,

and modeling & database. Participants from other countries are cordially welcome.

2. Topics

1. Reactor System & Design;
2. Blanket & First Wall Technology;
3. Fission Materials & Fuels;
4. Fusion Materials
5. Radiation Damage and Effects;
6. Simulation Code, Data Base & Modeling;
7. Device Engineering and Magnet System.
8. ITER related materials and technologies

The following session examples will be included in the 9th symposium:

- Session 1 -- Fast Reactor Materials and ODS steels
- Session 2 -- Blanket and Breeding Materials
- Session 3 -- Device Engineering and Reactor Design
- Session 4 -- Reduced Activation Ferritic/martensitic Steel and Others
- Session 5 -- Vanadium Alloys
- Session 6 -- SiC Materials and Composites
- Session 7 -- Refractory Alloys
- Session 8 -- Boron and Superconducting Magnet Materials
- Session 9 -- Irradiation Damage
- Session 10 -Hydrogen Isotope in Materials
- Session 11 - SCC and Creep
- Session 12 - Neutronics and Design
- Session 13 - Free Surface
- Session 14 - Simulation and Modeling
- Session 15 - Related technologies on ITER Project

3. Abstract and Paper Submission

3.1 Abstract and Proceedings:

Submitted abstracts should indicate your selected session number based on the given examples. An abstract booklet will be available at the symposium. Abstracts and papers will be collected as Symposium Proceedings. Length of the manuscript paper should not exceed 5 pages.

3.2 Symposium language: English.

3.3 Key Dates:

First Announcement:	January 31, 2007
Abstract Submission Due:	May 1, 2007
Registration Due:	August 1, 2007
Manuscript Due:	October 23-24, 2007.

3.4 Format:

(Papers will be identified by abstract and full paper numbers to be assigned by the conference organizer.)

Abstract: xxxxx
Full paper: xxxxx

4. Committees

4.1 Organizers:

Prof. K.M. Feng (Chairman), Southwestern Institute of Physics, China.
Prof. A. Kimura (Co-Chairman), Institute of Advanced Energy, Kyoto University, Japan.

4.2 Organizing Committee Members

Katsunori ABE	Graduate School of Engineering, Tohoku University
Kaiming Feng	Southwestern Institute of Physics, SWIP
Akira KOHYAMA	Institute of Advanced Energy, Kyoto University
Akihiko KIMURA	Institute of Advanced Energy, Kyoto University
Cong Li	Nuclear Power Institute of China, NPIC
Yong Liu	Southwestern Institute of Physics, SWIP
Takeo MUROGA	National Institute for Fusion Science
Hideyuki TAKATSU	Japan Atomic Energy Agency
Satoru TANAKA	Graduate School of Engineering, University of Tokyo
Heishichiro TAKAHASHI	Hokkaido University
Yican Wu	Institute of Plasma Physics, ASIPP
Zhiguang Wang	Institute of Modern Physics, IMPCAS
Farong Wan	University of Science and Technology, USTBJ
Heyi Wang	Institute of Engineering Physics, CANP
Naoaki YOSHIDA	Kyushu University
Shengyun Zhu	China Institute of Atomic Energy, CIAE

4.4 Local Committee

Committee members:

Kaiming Feng (SWIP)
Yiming Zhang (SWIP)
Jiming Chen (SWIP)
Zhi Chen (SWIP)
Manli Shi (SWIP)

General Secretariat:

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5. Co-Sponsors

National Natural Science Foundation of China
CAS -JAPS Core-university Program
Nuclear Physics Society of China
National Laboratory for Surface Physics and Chemistry, China

6. Web and E-mail

Information including hotel and transportation is obtained through the symposium web site. Abstract submission and Registration will be done through the web or e-mail. The Symposium Web site will be opened by the end of January, 2007.

Web Site

The web site of the symposium is as follow:

<http://www.swip.ac.cn/cjs9/>

The further information will only be provided via the symposium web site. Please check it frequently.

Please submit abstract to:

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