

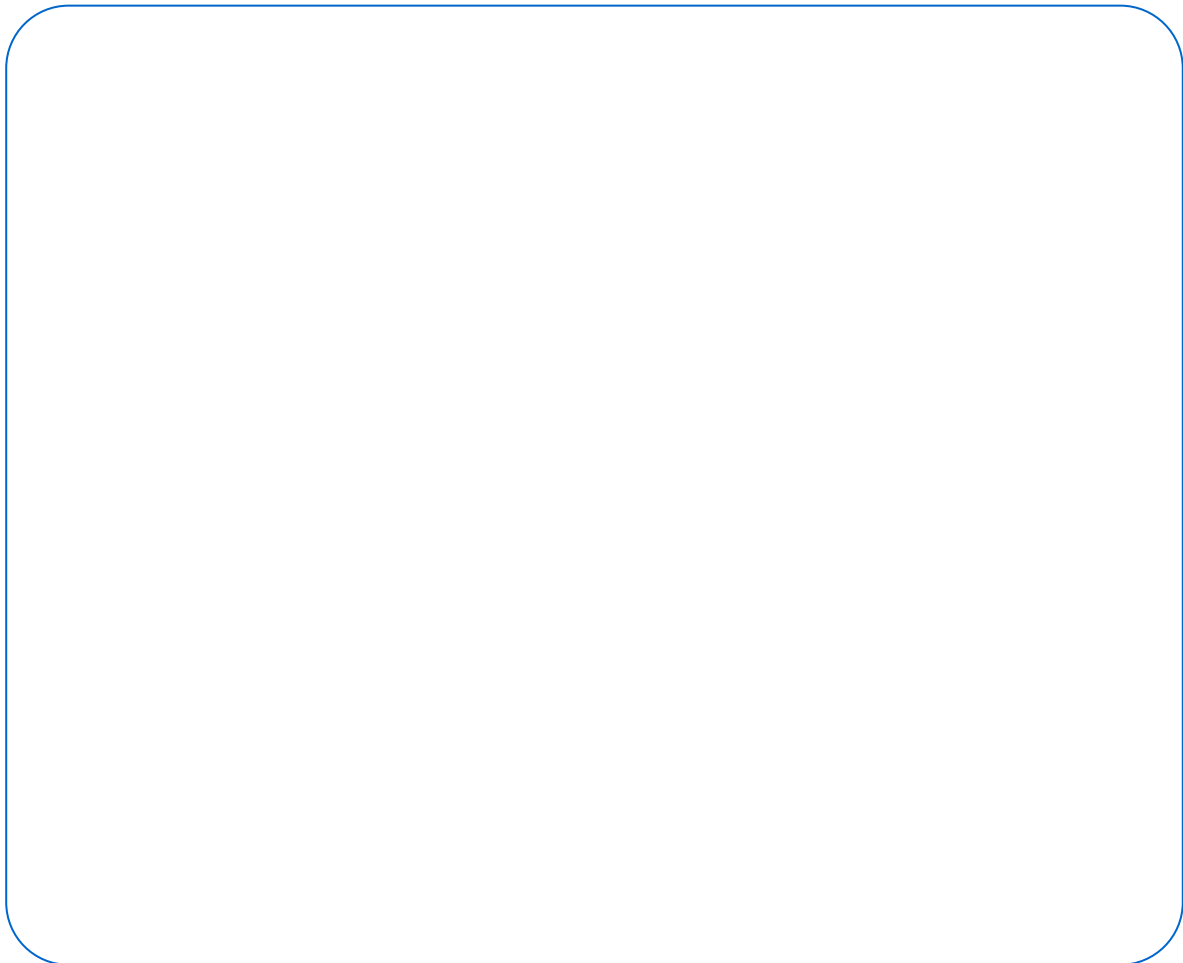
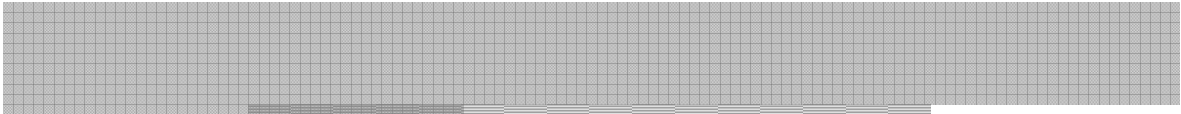
ISSNP2008

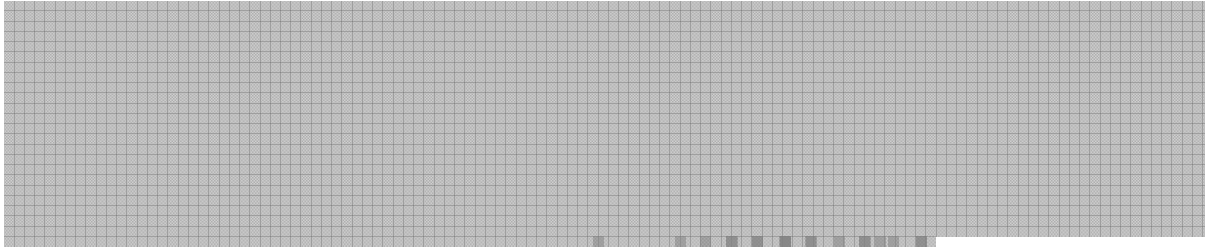
INTERNATIONAL SYMPOSIUM ON SYMBIOTIC

The 2nd international Symposium on Symbiotic Nuclear Power Systems for 21st Century (ISSNP2008) Embedded with the 4th International Symposium on Cognitive Systems Engineering Approach to Process Control (CSEAPC2008) and the 3rd International Symposium on Future I&C for Nuclear Power Plants (ISOFIC2008).

Power Systems for 21st Century (ISSNP2008) Embedded with the 4th International Symposium on Cognitive Systems Engineering Approach to Process Control (CSEAPC2008) and the 3rd International Symposium on Future I&C for Nuclear Power Plants (ISOFIC2008).

The 2nd International Symposium on Symbiotic Nuclear Power Systems for 21st Century (ISSNP2008) and Embedded with the 4th International Symposium on Cognitive Systems Engineering Approach to Process Control (CSEAPC2008) and the 3rd International Symposium on Future I&C for Nuclear Power Plants (ISOFIC2008).





Rick Didsbury (AECL, Canada)
Jin Jiang (Univ. of Western Ontario, Canada)
Richard Wood (ORNL, U.S.A.)
John M. O'Hara (BNL, U.S.A.)
Erik Hollnagel (Ecole des Mines de Paris, France)
Jan Larsson (GoalArt, Lund Univ., Sweden)
Andreas Buie (Halden Reactor Project, Norway)
Terje Johnsen (OECD Halden Reactor Project, Norway)
Leena Norros (VTT Technical Research Center of Finland, Finland)

Guanghai Su (Xi'an Jiao Tong Univ., China)
Xinrong Cao (Harbin Engineering Univ., China)
Mingjun Peng (Harbin Engineering Univ., China)
Mingyu Fu (Harbin Engineering Univ., China)
Shengyuan Yan (Harbin Engineering Univ., China)
Xuewu Cao (Shanghai Jiao Tong Univ., China)
Weigang Huang (CGNPC, China)
Xinrong Liu (CNNC, China)
Hongxin Yu (NPIC, china)
Zhigang Chen (CPI, China)

Local Co-Ordinate Committee

Chairperson:

Minjun Peng (Harbin Engineering Univ., China)

Vice Chairpersons:

Wen Liu (Harbin Engineering Univ., China), Ming Yang (Harbin Engineering Univ., China)

Secretary:

Shengyuan Yan (Harbin Engineering Univ., China)

Members:

Yan Zhao (Harbin Engineering Univ., China)

Fuqiu Ma (Harbin Engineering Univ., China)

Lijing Liu (Harbin Engineering Univ., China)

China-Japan-Korea Student Summer School Coordinators:

Chief:

Baohui Xia (Harbin Engineering Univ., China)

Important Dates

CPF on conference website: Scheduled from October 15 .2007

Paper proposal submission deadline: January 31.2008

Notification of proposal acceptance for full paper submission: March 31.2008

Full paper submission deadline: May 31.2008

Notification of full paper acceptance: June 20.2008

Conference Topics

1. Methods of sensing, monitoring and processing for control and communication

- Advanced Sensors and Measurement Techniques
- New Control Systems for Reactors and Plant Systems
- Digital System Reliability
- Safety Critical Software Development and Qualification
- Digital Upgrade Issues
- Next Generation I&C Systems
- I&C Security and Network Security
- Maintenance and Condition Monitoring
- Diagnostics and Predictive Maintenance Methods
- Defect Detection Methods in Component such as UT, ETC, EMAT, etc.
- Wireless Application in Nuclear Power
- Age Related Degradation of Instrumentation Systems
- New Methodologies for Online Status Monitoring of Nuclear Components
- Application of Virtual Reality and Augmented Reality Technologies for communications

2. System simulation technologies

- Plant Simulator Technologies for Nuclear Power Plants including Fast Reactors & -High Temperature Gas Reactors
- New Methodologies for Plant Simulators
- Advanced Simulation Technologies for Human-Machine Systems
- Use of Plant Systems & Component Simulation Technologies for Personnel Training and Education
- Basic Methodologies for Thermo-hydraulic Analysis of Advanced Reactors
- New Analysis and Simulation Methods for Defect Prediction and Life Estimation for Plant Components
- Use of Plant Operators for Human Factors Evaluation.
- Simulation Methods and Tools for Various Energy System Evaluation

3. Human interface technologies

- Computerized Operator Decision and Support Systems
- Utility Experience with Control Room Modernization
- New Concepts for Advanced Control Rooms
- Designing Large Information Systems
- User Interaction with Automation
- Knowledge Capture and Engineering, Applications of Technology to Enhanced Maintenance Operations
- Designing Better Alarm Systems
- Environmental Compatibility of Reactor Control Room
- Computerized Procedure Systems, Human Error Issues
- Human Reliability Analysis Methodologies
- HFE Design and Analysis Tools
- Human Behavioral Modeling
- Innovative Approaches to Training and Training Technologies

4. Symbiosis of technology with society and environment

- Regulatory Aspects of Nuclear I&C
- Incident Reports Systems and the Related Analysis such as by Data Mining
- Application of Risk Analysis in the Design and Evaluation of Human-Machine System
- Regulatory Approaches to Advanced Systems
- Organized Factors and Safety Culture in Nuclear Industries
- Risk Communication
- Social Education on Risk Literacy
- Risk Informed Regulation
- Social Investigations for Public Acceptance
- Multi-purpose utilization of nuclear energy

