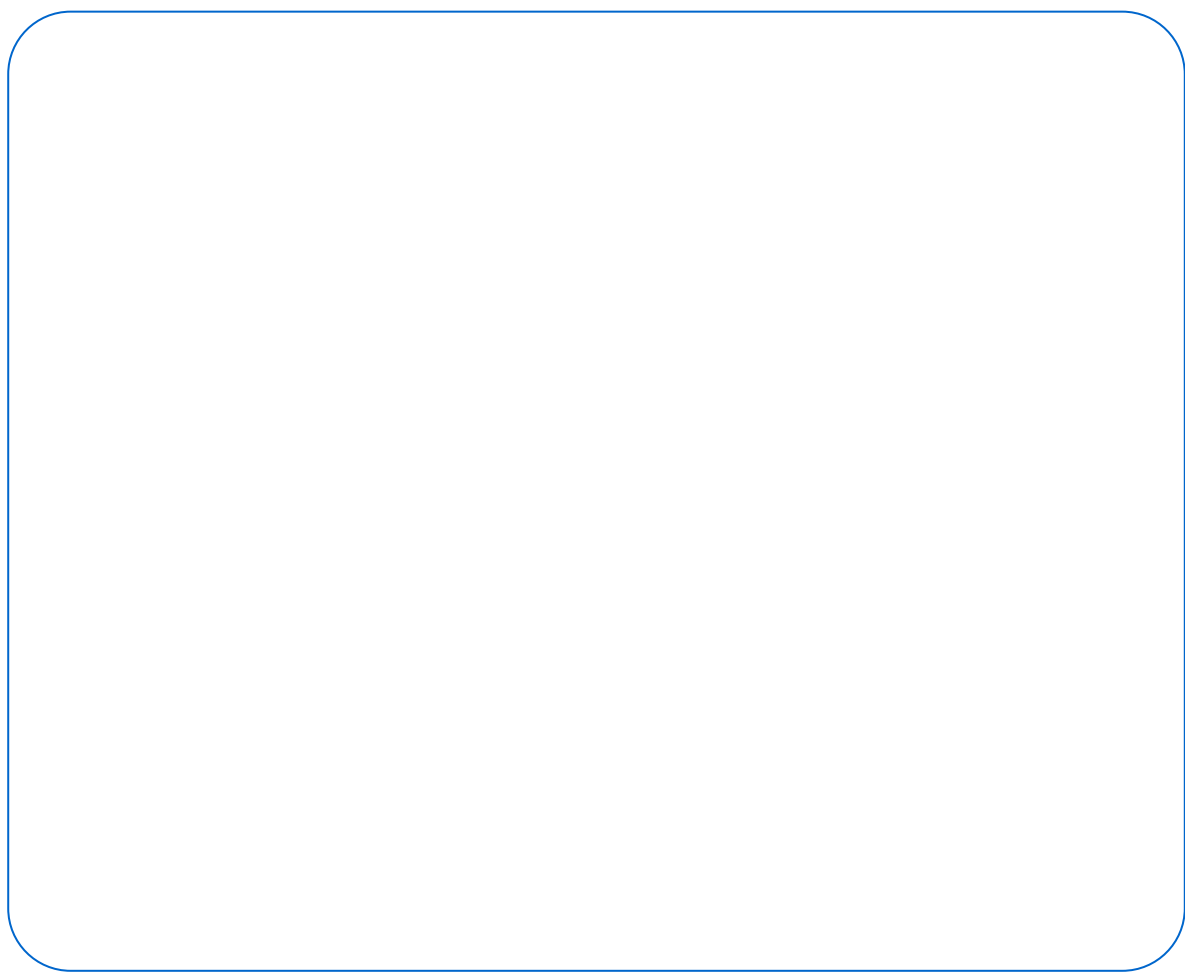
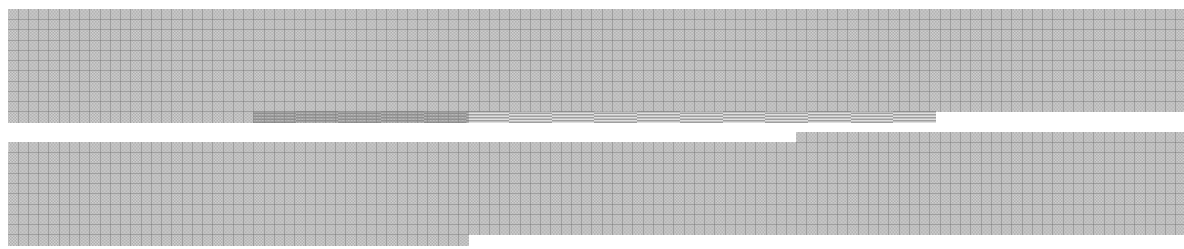
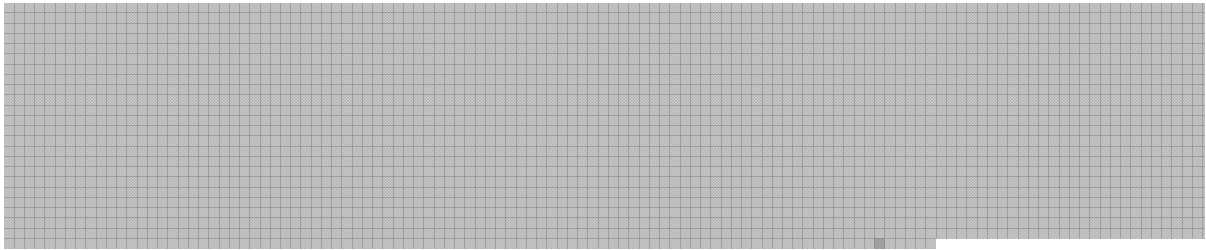


*The 2<sup>nd</sup> International Symposium on Symbiotic Nuclear Power Systems for 21<sup>st</sup> Century (ISSNP2008) and Embedded with the 4<sup>th</sup> International Symposium on Cognitive Systems Engineering Approach to Process Control (CSEPC2008) and the 3<sup>rd</sup> International Symposium on Future I&C for Nuclear Power Plants (ISOFIC2008).*





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**Chief:**

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### 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

