

Session Program

13–17 May 2019

**12th IAEA Technical Meeting on Control, Data Acquisition
and Remote Participation for Fusion Research**

Poster facult.

Daejeon, Republic of Korea

Monday 13 May

15:05

Poster facult.: Plasma Control Posters

Poster Session | Location: Daejeon, Republic of Korea

EAST research activities on control and data toward CFETR

Speaker
Prof. Bingjia Xiao

ITER Operation Application Systems for plant system integration and commissioning

Speaker
Mikyung Park

Introduction of ITER CODAC Relevant Technologies on JET and MAST

Speaker
Dr John Waterhouse

Current State of DIII-D Plasma Control System

Speaker
Martin Margo

MARTe2 and MDSplus integration for a comprehensive Fast Control and Data Acquisition System

Speaker
Gabriele Manduchi

Advances and challenges in KSTAR plasma control toward long-pulse, high-performance experiments

Speaker
Dr Sang-hee Hahn

The first implementation of active divertor heat flux feedback control in EAST PCS

Speaker
Dr Qiping Yuan

Design and Development of a Cost Optimized Timing System for Steady state Superconducting Tokamak (SST-1)

Speaker
Mr JASRAJ DHONGDE

17:05

Wednesday 15 May

15:25

Poster facult.: PC2, PC3, MCR & DTI

Poster Session | Location: Daejeon, Republic of Korea

Integrated Data Acquisition, Storage and Retrieval for Glass Spherical Tokamak (GLAST)

Speaker

Muhammad Aqib Javed

Validation of the Fenix ASDEX Upgrade flight simulator

Speaker

Dr Filip Janky

Rapid prototyping of advanced control schemes in ASDEX Upgrade

Speaker

Bernhard Sieglin

Real-time MHD Analysis Computer System Design, Architecture, and Integration with PCS

Speaker

Keith Erickson

An efficient MHD equilibrium solver for control oriented transport models

Speaker

Pablo Garcia-Martinez

Automatic recognition of plasma relevant events: implications for ITER

Speaker

Dr Jesús Vega

Dockerizing MDSplus for use with custom data collection devices

Speaker

Stephen Lane-Walsh

Fast scenario design for alternative magnetic diverted discharge on EAST

Speaker

Zhengping Luo

Automatic recognition of anomalous patterns in discharges by recurrent neural networks

Speaker

Ernesto Fabregas Acosta

Disruption Predictor Based on Neural Network and Anomaly Detection

Speaker

Dr Wei Zheng

State-full Asynchronous Event Server and Clients

Speaker

Basil Duval

Navigational Data Management - A general approach to representation and exploitation of relationships in scientific data sets

Speaker
Mr Joshua Stillerman

Control system of Neutral Particle Analyser in energy sweeping mode.

Speaker
Dr Mykola Dreval

From Tore Supra to WEST : Evolution of CODAC infrastructure

Speaker
Mr Benjamin SANTRAINE

Design for the Distributed Data Locator Service for Multi-site Data Repositories

Speaker
Hideya Nakanishi

Application of LHD Post Data Analysis Systems to the KSTAR Project

Speaker
Masahiko Emoto

Design of the Interlock System for MITICA

Speaker
Mr Adriano Luchetta

18:00

Thursday 16 May

13:30

Poster facult.: DASP & RPVL

Poster Session | Location: Daejeon, Republic of Korea

Strategy for diagnostics integration into W7-X CoDaC for OP2

Speaker

Dr Axel Winter

A full stack data acquisition, archive and access solution for J-TEXT based on Web technologies

Speaker

Mr Yuxing Wang

Methodology to standardize the development of FPGA-based intelligent DAQ and processing systems on heterogeneous platforms using OpenCL

Speaker

Mr Miguel Astrain

Design of GPU-based Parallel Computation Architecture of Thomson Scattering Diagnostic in KSTAR

Speaker

Seung-Ju Lee

Recent Diagnostic Developments with the ASDEX Upgrade Standard Data Acquisition System using the FPGA implemented Serial I/O card „SIO2“

Speaker

Dr Karl Behler

Remote Experiment with WEST from ITER Remote Experiment Centre

Speaker

Shinsuke Tokunaga

RUSSIAN PROTOTYPE OF ITER REMOTE PARTICIPATION CENTER

Speakers

Dr Igor Semenov, Mr Oleg Semenov

16:00