

4th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research

Meeting Agenda

Monday, 21 July 2003 (SPECIAL REVISED)					
time		abstract #	speaker	affiliation	title
8:00	Registration				
9:00	Opening Remarks				
9:30	Oral Session		Chair: Theis, Jean-Marie	EURATOM/CEA, Cadarache, France	Machine Control and Monitoring
9:30		48	Penafior, Ben	General Atomics, San Diego, USA	DIII-D Tokamak Control and Neutral Beam Computer Systems Upgrades
9:55		21	Yonekawa, Izuru	JAERI, Naka, Japan	Current Status and Future Prospect of the JT-60U Control System
10:20		62	Kwon, Myeun	KBSI, Taejeon, Korea	Control System of KSTAR
10:45	Morning Break				
11:10	Oral Session		Chair: Yonekawa, Izuru	JAERI, Naka, Japan	Plasma Control
11:10		18	Luchetta, Adriano	EURATOM/ENEA Consorzio RFX, Padova, Italy	Progress in Distributed Real-Time Feedback Control Systems in RFX
11:35		36	Raupp, Gerhard	EURATOM/IPP, Garching, Germany	Replacement Strategy for ASDEX Upgrade's New Control and Data Acquisition
12:00	Oral Session		Chair: Sousa, Jorge	EURATOM/IST, Lisbon, Portugal	Control and Data Acquisition Systems for Diagnostics I
12:00		39	Batista, Antonio	EURATOM/IST, Lisbon, Portugal	A Testbench System for the Real-Time Project Phase 2 of JET
12:25		24	Fredian, Tom	MIT, Cambridge, USA	Migration of Alcator C-Mod Computer Infrastructure to Linux
12:50	Lunch				
14:15	Oral Session		Chair: Schmidt, Volker	EURATOM/ENEA, Consorzio RFX, Padova Italy	Control and Data Acquisition Systems for Diagnostics II
14:15		17	Manduchi, Gabriele	EURATOM/ENEA Consorzio RFX, Padova, Italy	Recent Developments of the RFX Control and Data Acquisition System
14:40		29	Sousa, Jorge	EURATOM/IST, Lisbon, Portugal	A PCI Time Digitizer for the new JET Time-of-Flight Neutron Spectrometer
15:05		61	Shiraishi, Tetsunari	Yokagawa Elec., Tokyo, Japan	A New Concept PC-Based Measurement System for Nuclear Fusion Experiments
15:30	Afternoon Break				
16:10	Oral Session		Chair: Stillerman, Josh	MIT, Cambridge, USA	Database Techniques for Information Storage and Retrieval
16:10		25	Davis, Bill	PPPL, Princeton, USA	DbAccess: Interactive Statistics and Graphics for Plasma Physics Databases
16:35		1	Nakanishi, Hideya	NIFS, Toki, Japan	Search and Retrieval Method of Similar Plasma Waveforms
17:00	Poster Setup				
17:15	Poster Session (A) / Cocktail Party		Chair: Penafior, Ben	General Atomics, San Diego, USA	Poster Session (A)
19:00	End of Session				

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Tuesday, 22 July 2003					
time		abstract #	speaker	affiliation	title
9:00	Announcements				
9:15	Oral Session		Chair: Behler, Karl	EURATOM/IPP, Garching, Germany	Special Techniques for Long Duration Discharges
9:15		56	Guillerminet, Bernard	EURATOM/CEA, Cadarache, France	Experience from Tore Supra Acquisition System and Evolutions
9:40		8	Heimann, Peter	EURATOM/IPP, Garching, Germany	Status Report on the Data Acquisition System of Wendelstein 7X
10:05		15	Kuehner, Georg	EURATOM/IPP, Garching, Germany	Editor for System Configuration and Experimental Program Specification
10:30	Morning Break				
11:00	ITER Discussions - "What should ITER be doing TODAY regarding Control, Data Acquisition, and Remote Collaboration?"				
12:30	Group Photo				
13:00	Lunch				
14:15	Setup for Posters				
14:25	Poster Session (B)		Chair: Piglowski, David	General Atomics, San Diego, USA	Poster Session (B)
15:15	Afternoon Break (in parallel with Poster Session)				
16:00	End of Session				
17:45	Hotel pick up for Dinner Cruise				
18:45	Board for Dinner Cruise				
19:00	Dinner Cruise Departure				
21:45	Dinner Cruise Return				
22:00	Return to Hotels				

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Wednesday, 23 July 2003					
time		abstract #	speaker	affiliation	title
9:00	Announcements				
9:15	Oral Session		Chair: Casper, Tom	LLNL,Livermore, USA	Techniques for Remote Participation I
9:15		27	Oshima, Takayuki	JAERI, Naka, Japan	Development of Environment for Remote Participation of Fusion Research in JT-60
9:40		43	Behler, Karl	EURATOM/IPP, Garching, Germany	Video-Conferencing and Remote Participation Features at ASDEX Upgrade - <u>Report of Recent Experiences</u>
10:05		60	Schmidt, Volker	EURATOM/ENEA Consorzio RFX, Padova, Italy	Status of the Remote Participation Technical Co-ordination in the EFDA Laboratories
10:30	Morning Break				
10:55	Oral Session		Chair: Farthing, Jonathan	EURATOM/UKAEA Abingdon, UK	Techniques for Remote Participation II
10:55		49	Schissel, David	General Atomics, San Diego, USA	Building the U.S. National Fusion Grid: Results from the National Fusion Collaboratory Project
11:20		45	Burruss, Justin	General Atomics, San Diego, USA	Remote Computing Using the National Fusion Grid
11:45		59	Judson, Ivan	ANL, Argonne, USA	Collaboration Technology for the Fusion Community
12:10		55	Keahey, Katarzyna	ANL, Argonne, USA	Enabling Science: Current and Future Trends in Grid Computing
12:35		50	Felton, Robert	EURATOM/UKAEA Abingdon, UK	Real-Time Measurement and Control Systems on JET
13:00	Lunch				
14:15	ITER Discussions - conclusions				
14:45	Closing Remarks				
15:15	Group A - Demo of Grid Computing and Collaborative Technologies				
	Group B - Tour of the DIII-D facility				
16:30	Group A - Tour of the DIII-D facility				
16:45	Group B - Demo of Grid Computing and Collaborative Technologies				
18:00	End of Session				

**4th IAEA Technical Meeting on Control, Data Acquisition,
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Poster Sessions

Poster Session A - Mon 21 July 2003		Chair: Penaflor, Ben	General Atomics, San Diego, USA
abstract #	Presenter	Affiliation	Title
Control and Data Acquisition for Diagnostics			
06	Hennig, Christine	EURATOM/IPP, Greifswald, Germany	A Concept of Online Monitoring for the W7X Experiment
09	Buravand, Yves	EURATOM/CEA, Cadarache, France	An Overview of the Tore Supra Continuous Data Acquisition and Retrieval System
11	Vega, Jesus	EURATOM/CIEMAT, Madrid, Spain	A Distributed Synchronization System for the TJ-II Local Area Network
12	Sanchez, Edilberto	EURATOM/CIEMAT, Madrid, Spain	Autonomous Acquisition Systems for TJ-II: Controlling Instrumentation with a 4th Generation Language
14	Sichta, Paul	PPPL, Princeton, USA	Developments to Supplant CAMAC with Industry Standard Technology at NSTX
16	Lopez, Sergio	Poly. Univ. Madrid, Madrid, Spain	Real-Time Data Acquisition and Processing Platform for Fusion Experiments with Remote Participation
22	Seo, Seong-Heon	KBSI, Taejeon, Korea	CAMAC, VXI, and PXI Hybrid Data Acquisition System with MDSplus
28	Sato, Minoru	JAERI, Naka, Japan	Development of Workstation-based CAMAC Data Acquisition System for JT-60 Data Processing System
30	Combo, Alvaro	EURATOM/IST, Lisbon, Portugal	A PCI Transient Recorder for the Magnetic Proton Recoil Neutron Spectrometer at JET
31	Carvalho, Paulo	EURATOM/IST, Lisbon, Portugal	A Low-Cost Galvanic Isolated Fast PCI Transient Recorder with Signal Processing Capabilities
32	Cruz, Nuno	EURATOM/IST, Lisbon, Portugal	A Large Memory VME Data Acquisition System for the JET Heterodyne Radiometer Upgrade
41	Alves, Diogo	EURATOM/IST, Lisbon, Portugal	Real-Time Motional Stark Effect in JET
37	Raupp, Gerhard	EURATOM/IPP, Garching, Germany	Real-Time Control and Data Acquisition with ASDEX Upgrade's New Time System
44	Behler, Karl	EURATOM/IPP, Garching, Germany	Integration of Real-Time Data Acquisition Systems into the ASDEX Upgrade Diagnostic and Control Architecture
52	Piglowski, David	General Atomics, San Diego, USA	Advances in Distributed Data Acquisition at DIII-D
Database Techniques for Information Storage and/or Retrieval			
04	Centioli, Cristina	EURATOM/ENEA, Frascati, Italy	Commodity Hardware and Open Source Solutions in FTU Data Management
26	Emoto, Masahiko	NIFS, Toki, Japan	Provisional Data Visualization System for LHD Experiment

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Poster Sessions

Poster Session B - Tue 22 July 2003		Chair: Piglowski, David	General Atomics, San Diego, USA
abstract #	Presenter	Affiliation	Title
Machine Control and Monitoring			
02	Iannone, Francesco	EURATOM/ENEA, Frascati, Italy	CompactPCI/Linux Platform for Medium Level Control System on FTU
20	Akasaka, Hiromi	JAERI, Naka, Japan	Development of a Prototype System toward a New Timing Supervisor for JT-60
51	Pham, Damara	General Atomics, San Diego, USA	DIII-D Neutral Beam Control System for 2003 and Beyond
Plasma Control			
47	Johnson, Robert	General Atomics, San Diego, USA	Current Status of the Upgraded DIII-D Real-Time Digital Plasma Control System
57	Edgell, Dana	FAR-TECH Inc, San Diego, USA	Real-Time Identification and Control of the RWM in DIII-D
33	McArdle, Graham	EURATOM/UKAEA, Abingdon, UK	The MAST Digital Plasma Control System
38	Mastrovito, Dana	PPPL, Princeton, USA	Real-Time Control on NSTX
03	Centioli, Cristina	EURATOM/ENEA, Frascati, Italy	Real-Time Linux Operating System for Plasma Control on FTU
40	Carvalho, Bernardo	EURATOM/IST, Lisbon, Portugal	Real-Time DSP-Based Shape Determination and Plasma Position Control in the ISTTOK Tokamak
Techniques for Remote Participation			
05	Larsen, Jean-Marc	INRS-U of Quebec, Varennes, Canada	Virtual Experiments Using VRVS and MDSplus
54	Theis, Jean-Marie	EURATOM/CEA, Cadarache, France	Remote Experiment Participation on Tore-Supra
46	Flanagan, Sean	General Atomics, San Diego, USA	A General Purpose Data Analysis Monitoring System with Case Studies from the National Fusion Grid and the DIII-D MDSplus Between Shot Analysis System
53	Phillips, Jeremy	General Atomics, San Diego, USA	System Description and Operational Experience for DIII-D-TV - A Web-Based Tool for Collaboration
13	Barrera, Eduardo	Poly. Univ. Madrid, Madrid, Spain	Simulation Platform for Remote Participants in Fusion Experiments
58	Meyer, Bill	LLNL, Livermore, USA	Collaborative Access to the MFE Program Linux Cluster
Special Techniques for Long Duration Discharges			
19	Heimann, Peter	EURATOM/IPP, Garching, Germany	Image Data Acquisition in the Scope of Long Duration Discharges
Database Techniques for Information Storage and/or Retrieval			
23	Farthing, Jonathan	EURATOM/UKAEA, Abingdon, UK	20 Years of Data Acquisition at JET
35	Walters, Malcolm	EURATOM/UKAEA, Abingdon, UK	Design and Implementation of the ITPA Confinement and Profile Database