Session Program

20–26 Sept 2025

ICALEPCS 2025 - The 20th International Conference on Accelerator and Large Experimental Physics Control Systems

TUPD Posters

Palmer House Hilton Chicago
17 East Monroe Street Chicago, IL 60603, United States of America

Tuesday 23 September

16:00

TUPD Posters

Poster Session
Location: Palmer House Hilton Chicago, 17 East Monroe Street Chicago, IL 60603, United States of America

Design of the Korea-4GSR Timing system

Speaker
Sohee Park

Control system implementation for temperature monitoring and control for CBXFEL project

Speaker
Namrata Balakrishnan

LabVIEW-based modular control system for the Novel Electron Window Test Stand

Speaker
Elena Galetti

Development of EPICS device support on the MELSEC iQ-R embedded Linux controller

Speaker
Misaki Komiyama

Driving fusion success: target diagnostics software control at National Ignition Facility (NIF)

Speaker
Sukhdeep Heerey

EPICS driver for Universal Robots e-Series robot arms

Speaker
Nick Marks

Building the foundations of mechatronic and robotic systems for SOLEIL II automation

Speaker
Yves-Marie Abiven

Nanoscale precision multi-axis motion control for the CBXFEL project

Speaker
Maria Alessandra Montironi

Beam position monitor control system at the European Spallation Source

Speaker
Juliano Murari

Development of a beam gate control system for proton beam irradiation at KOMAC LINAC

Speaker
Young-Gi Song

Vacuum monitoring and controls acceptance testing for LCLS-II HE cryomodules at SLAC

Speakers

Rohini Sri Priya Chillara, Ziyu Huang

DCCT controls at the Advanced Photon Source

Speaker

Suyin Grass Wang

SSRF superconducting wiggler control & coil voltage monitoring system and quench monitoring results

Speaker

Tianya Meng

Standardizing MicroTCA integration into the TANGO control system via ChimeraTK and OPC UA at SOLEIL

Speaker

Mrs Jade Pham

Design and implementation of control system for ion source of Proton Radiation Effects Facility

Speaker

Pengpeng Wang

Power PMAC drive current case study

Speaker

Oksana Ivashkevych

Controls of the new eddy current septum for the CERN PS fast extraction

Speaker

Léa Strobino

Real Time control system upgrade of the CERN Linac4 pre-chopper

Speaker

Mr Christophe Boucly

Online analysis for kicker missing pulse diagnosis

Speaker

Mr Christophe Boucly

SIBERIA -- Stitcher, Integrated in Beamline Environment, Rigid, Infallible and Alacritous

Speaker

Marina Nikolova

Converting experiment data to NeXus application definitions at BESSY II

Speaker

Sonal Ramesh PATEL

Integrated data acquisition and processing pipelines for users at Elettra 2.0: a case study at SYRMEP, the µCT beamline

Speaker

Adriano Contillo

Control system upgrade of Argonne Wakefield Accelerator facility

Speaker

Wanming Liu

First diagnostic of the Laser Megajoule timing system

Speaker

Thierry Somerlinck

ALS storage ring RF control system upgrade plan and status

Speaker

Najm Us Saqib

Upgrade of the control systems for the CERN LHC gas system distribution modules

Speaker

Pieter Vanslambrouck

Supporting injector operation with the FAIR settings management system

Speaker

Jutta Fitzek

CERN SCADA systems 2024 large upgrade campaign retrospective

Speaker

Lukasz Goralczyk

From terabytes to petabyte: scaling of the archiving system for FAIR

Speaker

Vitaliy Rapp

Bluesky NeXus: a solution for NeXus-compliant data acquisition in Bluesky

Speaker

Mr Daniel Tomecki

Evaluate data lake design for the accelerator control system

Speaker

Amol Jaikar

Design of snapshot management in CSNS with a frontend-backend-separation architecture

Speaker

Mingtao Li

EPICS Archiver Appliance at Los Alamos Neutron Science Center

Speaker

Jonathan Quemuel

Unsupervised Anomaly Detection in ALS EPICS Event Logs

Speaker

Thorsten Hellert

Evolution of White Rabbit network for large-scale deployment at CERN

Speaker

Maciej Suminski

The hardware and software architecture of the MTCA.4 BPM electronics for the DESY's PETRA IV accelerator

Speaker

Martin Anton Škoberne

KEK electron/positron injector LINAC control system

Speaker

Masanori Satoh

EPICS 7 upgrade for LCLS-II undulator motion control system

Speaker

Ziyu Huang

Homogenizing a control system with a long history

Speaker

Scott Baily

Status of the control system for the DELTA synchrotron light source

Speaker

Detlev Schirmer

Installation and commissioning progress of the 2PACL CO2 cooling control systems for Phase II upgrade of the ATLAS and CMS experiments

Speaker

Lukasz Zwalinski

Modernizing the RF control systems at the Advanced Photon Source

Speaker

Nicholas DiMonte

Technical design concept and development of the new accelerator control and timing systems for PETRA IV

Speaker

Tim Wilksen

Consolidation of the state control and surveillance system of the LHC Beam Dump system

Speaker

Mr Christophe Boucly

Motion control systems for insertion devices in Diamond-II

Speaker

Ronaldo Mercado

Active magnetic bearings electronic system upgrade for CERN's (HL)-LHC cryogenic 1.8 K cold compressor units

Speaker

Marco Pezzetti

A Python-based serial communication framework for legacy PMAC controllers

Speaker

Parvathi Sreelatha Devi

Assessing WinCC OA project limits to guide DCS architecture for the Phase-II ATLAS upgrade

Speaker

Nikolaos Kanellos

Upgrading the ALS beamline equipment protection system: software development and implementation

Speaker

Najm Us Saqib

Design and commissioning of the upgraded ALS SR RF cavity water control system

Speaker

Najm Us Saqib

The White Rabbit Collaboration: An innovative model of public-private partnership

Speaker

Evangelia Gousiou

Fiber signal attenuation due to temperature

Speaker

Daniel Sanchez

Refurbishment strategy of the GANIL cyclotrons control system

Speaker

Mr Christophe Haquin

Ensuring reliability and feasibility of software alarms with PHOEBUS in EPICS network for ALS-U

Speaker

Soo Ryu

A remote-controlled high voltage power supply using open source firmware modules

Speaker

Guilherme Ricioli

Development of MTCA.4 at ESS

Speaker

Faye Chicken

The control system of sub-cooled liquid nitrogen cooling system for C11 CPMU at SSRF

Speaker

Tianya Meng

Leveraging agile methodologies for efficient conference delivery: a case study from ICALEPCS 2023 Africa

Speakers

Bulelani Xaia, Naadjia Padavattan

APS-U storage ring power supply interlock and temperature monitoring control system

Speaker

Shifu Xu

Federated PV management and cross-network data archiving framework for distributed EPICS systems in Korea-4GSR

Speaker

sunwoo Kang

Modernizing control system for klystron test stand at LANSCE

Speaker

Jonathan Quemuel

Nanoprobe diffraction and scattering method - BCDI, ptychography, robotics

Speaker

Jun Yee Tan

Novel distributed fast controls architecture for the consolidation of CERN's PS kickers

Speaker

Léa Strobino

HDB++, a retrospective on 5+ years using Timescale

Speaker

Reynald Bourtembourg

RTST vacuum control system design

Speaker

Jianxun Yan

Beam Synchronized Acquisition and enhancements to associated services

Speaker

Kukhee Kim

The IRRAD Proton Irradiation Facility Data Management, Analytics, Control and Beam Diagnostic systems: current performance and outlook beyond the CERN Long Shutdown 3

Speaker

Federico Ravotti

Upgrade of the Los Alamos Neutron Science Center (LANSCE) Beam Chopper Pattern Generator

Speaker

Anthony Braido

Advanced controls infrastructure for Diamond Light Source

Speaker

Gareth Nisbet

Adaptive approach to spatial interpolation and visualization of scattered monitoring data at CERN

Speaker

Carlo Maria Musso

EPICS-based X-ray beam intensity monitoring for the CBXFEL project at SLAC LCLS

Speaker

An Le

Trigger synchronization unit consolidation for SPS and LHC beam dumping kickers systems

Speaker

Léa Strobino

Embracing the accelerator computing revolution at SLAC

Speaker

Greg White

Enhancing scanning nano-tomography instrumentation with a magnetic levitation stage

Speaker

Yves-Marie Abiven

Continuous integration of control systems in parallel to the existing systems of LIPAc, for a radio-frequency conditioning test bench.

Speaker

Lucas Maindive

The ESS Synchronous Data Service (SDS) development and first results

Speaker

João Paulo Scalão Martins

Towards sustainable work management in scientific facilities: applying Kanban at ALBA Controls

Speaker

Zbigniew Reszela

Universal LIMS for Diamond

Speaker

Ian Bush

The Enhanced Liquid Interface Spectroscopy and Analysis (ELISA) beamline control system prototype

Speaker

Maxim Brendike

Towards the implementation of a new European XFEL scientific data policy – challenges and chances.

Speaker

Janusz Malka

SOLARIS synchrotron control system upgrade: addressing challenges and implementing solutions

Speaker

Michał Fałowski

Control software and technology choices for the electron-ion collider

Speaker

Md Latiful Kabir

Proof of concept of a PLC based emittance meter for the NEWGAIN project

Speaker

Clement Hocini

A TimescaleDB and Grafana framework for ATLAS DCS data flow

Speaker

Paris Moschovakos

Development of an EtherCAT-based control system for an In-Vacuum Undulator for SPring-8-II

Speaker

Kosei Yamakawa

Time served - a look at the past, present, and future of timing at Fermilab

Speaker

Evan Milton

Development of GigE vision camera control system and application to beam diagnostics for SPring-8 and NanoTerasu

Speaker

Dr Akio Kiyomichi

Automated test execution framework for experiment control systems at LCLS

Speaker

Christian Tsoi-A-Sue

Building the backbone: cable plant planning, design, and progress for SLAC's MEC-U project

Speaker

Mitchell Cabral

Accelerator Process Water Upgrade at ANL/APS

Speaker

James Stevens

No child left behind: managing requirements, interfaces, and communication in high-impact projects

Speaker

Mitchell Cabral

Overview of the LCLS-II superconducting timing system design

Speakers

Carolina Bianchini Mattison, Daniel Sanchez

GPS IRIG-B over the fiber - an alternative to NTP

Speaker

Mr Adrian Hernandez

Progress update on the superconducting undulator control system for the European XFEL

Speaker

Mikhail Yakopov

Upgrading hardware and software for the LANSCE PSR ExBPM with FPGA based high speed digitizers

Speaker

Tyagi Ramakrishnan

A new PLC based control system to orchestrate the PS main power converters

Speaker

Marcos Marin Rodriguez

Modernization of DARHT Axis I Timing and Logic

Speaker

James Maslow

Seven years of progress: Optimising controls hardware data management at CERN for enhanced efficiency and reliability

Speaker

Ioan Kozsar

New L2SI dynamic reaction microscope endstation in TMO: control system design, installation and integration

Speaker

Jing Yin

EPICS Summer School: training future scientific control system experts

Speaker

Luca Porzio

A shared virtual machine framework for EPICS hands-on training

Speaker

Ralph Lange

Update on migration to EPICS at the ISIS accelerators

Speaker

Dr Ivan Finch

Modernization of PLC-based control systems at SNS

Speaker

Isaiah Beaushaw

Automatic bunch targeting for single-bunch beam position monitors

Speaker

Ran Hong

Design and performance of a novel data acquisition and processing system for the APS Upgrade front end XBPM

Speaker

Hairong Shang

17:30