

Session Program

20-26 Sept 2025



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

THPD Posters

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

Thursday 25 September

16:15

THPD Posters

Poster Session |

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

EPICS control system for Beam Operation at Saraf Linac Accelerator

Speaker

Alexis Gaget

Integration of Sample Temperature Control and X-ray Data Acquisition at the TPS 13A Biological Small- and Wide-Angle X-ray Scattering Beamline

Speaker

Cheng-Yuan Lin

Pycumbia: Bridging high-performance control logic and Python simplicity for modern UIs

Speaker

Lucio Zambon

Gas supply control system for straw tube detectors in the PANDA experiment

Speaker

Mr Lukasz Zytniak

BEC widgets: A modern modular framework for Beamline Experiment Control

Speaker

Jan Wyzula

Event-driven alarm management in the Karabo SCADA system

Speaker

Florian Sohn

Updating and operating the Machine Protection System at J-PARC MR

Speaker

Takuro Kimura

Ten years experience of operating tiny fanless servers as EPICS I/O controllers for J-PARC Main Ring

Speaker

Shuei Yamada

KEK electron/positron injector LINAC safety system

Speaker

Masanori Satoh

BL31-FaXToR, hard X-ray micro-tomography and radiography at ALBA: current status and ongoing improvements

Speakers

Zbigniew Reszela, Dr Fulvio Becheri

Third and fourth phase update of control network in J-PARC MR

Speaker
Kenichi Sato

Radiation monitoring system using a PIN photodiode at the KEK electron/positron injector LINAC

Speaker
Itsuka Satake

Process orchestration and system configuration in the MeerKAT radio telescope

Speaker
Rishad Ebrahim

Automating x-ray beam alignment processes with the split-and-delay graphical user interface at LCLS

Speaker
Carolyn Gee

Real-time experiment steering at European XFEL within Karabo

Speaker
Cammille Carinan

A client for the ATLAS time machine

Speaker
Ananth Ramaswamy

Worry-free Experimental Metadata collection tool for Tango-Controls/TINE and HDF5

Speaker
Igor Khokhriakov

ESS accelerator personnel safety system journey towards steady state operation

Speaker
Vincent Harahap

The novel and robust design of fast protection system for CSNS-II

Speaker
Peng Zhu

Design and performance of the SNS credited beam power limit system

Speaker
Kelly Mahoney

Logging a new era at the APS using BELY

Speaker
Dariusz Jarosz

A new accelerator user experience working group

Speaker
Tiffany Tran

An Agile/XP software development process for modernizing the accelerator control system at Fermilab

Speaker

John Diamond

The control and safety system for the JULIC neutron platform target station**Speaker**

Harald Kleines

Using Grafana as a representation layer for control data at the European XFEL**Speaker**

Valerii Bondar

EPICS diffractometer control with HKL calculations**Speaker**

Alexander Baekey

Integrated control systems for time-resolved RIXS at LCLS-II: design and operational challenges**Speaker**

Dr Jyoti Joshi

Status of HEPS beamline control system**Speaker**

Gang Li

The LCLS-II modular optical delivery system: lessons learned**Speaker**

Adam Berges

Signal response and analysis of large micro channel plate driven delay line detectors**Speaker**

Dr Peter Sjöblom

Secure EPICS PVAccess deployment framework for external scientific networks integration using Kerberos, LDAPS, and PKI at SLAC**Speaker**

Jingchen Zhou

Design and control of liquid sample delivery systems at LCLS**Speaker**

Josue Zamudio Estrada

First light received by Beamline Experiment Control**Speaker**

Christian Appel

Hardware orchestrated, multi-dimensional, continuous scans with the IcePAP motion controller**Speaker**

Marcelo Alcocer

Hardware orchestration architecture for fly and step scan at SIRIUS beamlines: a distributed, multi-platform system for sub-micrometer motion and data acquisition synchronization in on-the-fly synchrotron measurements

Speaker

Telles René Silva Soares

EPICS in practice at LCLS**Speaker**

Kaushik Malapati

Streamlining and updating user interfaces for LANSCE operations using Python**Speaker**

Greg DeLaTorre

Elettra Commander: A flexible web interface on large touchscreens**Speaker**

Lucio Zambon

Enhancing CERN experimental areas beamline configuration management with data-driven schematics**Speaker**

Mr Lukasz Burdzanowski

Integration of microchannel plate delay line detector in SXP instrument and Karabo control system at European XFEL**Speaker**

Ivars Karpics

Operating system security updates and network boot support for Libera instruments**Speaker**

Mr Miloš Bajič

Design of a laser safety system for S3**Speaker**

Nicolas Simon-Bauduin

Development of a fast orbit interlock system prototype for the 4GSR**Speaker**

Jinsung Yu

Integrated display management for control screens at APS accelerator complex**Speaker**

Lingran Xiao

Towards next-generation instrument control framework for neutron experiments at MLF, J-PARC**Speaker**

Kentaro Moriyama

A dual-network centralized control system for Elettra 2.0**Speaker**

Lorenzo Pivetta

The operation mode for SHINE machine protection system

Speakers

Yingbing Yan, Chunlei Yu

Micro-TCA-based data acquisition for APS radio frequency systems**Speaker**

Timothy Madden

Augmented reality for accelerator operations: A virtual control room prototype**Speaker**

Thorsten Hellert

Facility monitoring system**Speaker**

Nicholas Waters

Design of RAON operation monitoring via screen capture in isolated networks**Speaker**

Mijeong Park

Managing shifts in the NA61/SHINE experiment: development of the shift scheduler system**Speaker**

Marcin Slodkowski

Streamlining Phoebus OPI screen creation and maintenance with OPI-Generator**Speaker**

Tong Zhang

Redesign of the Timeline Generator at Fermilab using a web-based Flutter application, GraphQL API and an IOC**Speaker**

Linden Carmichael

WRAP: Integrating an event processing framework**Speaker**

Epameinondas Galatas

Preparing the migration of Python GUIs from Qt5 to Qt6 at CERN**Speaker**

Ivan Sinkarenko

Prometheus system monitoring stack**Speaker**

Trymore Gatsi

Design of the machine interlock system for Korea-4GSR**Speaker**

Yunho Kim

IC@MS - web-based alarm management software**Speaker**

Mr Lukasz Zytniak

Real-time EPICS-integrated RAON timing system enhancements

Speaker

eunsang kwon

Update of Linac and RCS MPS for BLM**Speaker**

Hiroki Takahashi

Integration of a tape drive sample delivery system at the European XFEL**Speaker**

Ana García-Tabarés Valdivieso

myLog: A modern, integrated logbook for scientific collaboration at European XFEL**Speaker**

Luis Maia

A multi-level monitoring interface for the SKA Central Signal Processor using the Taranta synoptic view**Speaker**

Gianluca Marotta

Enhancing user experience through GUIs and helper routines at MOGNO, the micro and nano tomography beamline at SIRIUS**Speaker**

Lucca Campoi

Access Control Interlock System Upgrade at ANL/APS**Speaker**

James Stevens

Control and acquisition system for a radar-based IFMIF-DONES lithium target diagnostic**Speaker**

V́ctor Villamayor Callejo

Interfacing custom (EPICS) software with in-house developed frame-grabbers & commercial cameras**Speaker**

Michael Skoufis

Improving cybersecurity on the Laser Megajoule Facility**Speaker**

Jean-Philippe Airiau

Observation planning tool for the MeerKAT radio telescope**Speaker**

Zanele Kukuma

Building on experience: renovation of the SNIFFER gas and fire protection system for the LHC experiments**Speaker**

Timo Hakulinen

IFMIF-DONES advanced machine protection system

Speaker

Ruben Lorenzo Ortega

Design and implementation of a scalable machine protection system for the EuAPS particle accelerator**Speaker**

Valentina Dompè

Design and deployment of a slow protection layer for a 100 MeV LINAC safety at KOMAC**Speaker**

JAE-HA KIM

Lifecycle management tools in the development of SNS credited safety systems**Speaker**

Kelly Mahoney

Preliminary design for beam charge monitoring interlock system for Advanced Light Source at Lawrence Berkeley National Lab**Speaker**

Denis Paulic

Ensuring the fast response in the powering interlock controller (PIC) upgrade: a UNICOS-based approach**Speaker**

Mr Jesus Fernandez Cortes

Management of server and network infrastructure at SuperKEKB**Speaker**

Dr Hitoshi Sugimura

The ESS Fast Beam Interlock System - design, deployment and commissioning till the beam on dump**Speaker**

Dr Stefano Pavinato

The ESS fast beam interlock system history buffer for post-mortem analysis and accelerator statistics**Speaker**

Dr Stefano Pavinato

CERN safety system monitoring - entering a new era**Speaker**

Tono Riesco

Development and operation of the new beam interlock system of RIKEN RI Beam Factory**Speaker**

Misaki Komiyama

Upgrades to the FACET-II data acquisition system**Speaker**

Sharon Perez

Efficient Multi-Region Fly-Scan Architecture Using PLC Integration for Synchrotron XAS**Speaker**

Cheng-Chih Liang

Development of a high-precision electrometer at NSLS-II**Speaker**

Yuke Tian

Image logging and annotation in Karabo for improved experimental monitoring**Speaker**

Ana García-Tabarés Valdivieso

Bluesky Queue Server for beamline control at NSLS-II**Speaker**

Dmitri Gavrilov

EPICS IOC development for high-speed, high-resolution imaging with the AXIS-SXRF-60 camera**Speaker**

Kuktae Kim

Polka - web management tool for TANGO controls**Speaker**

Mr Lukasz Zytniak

CSS to Phoebus transition at KIT**Speaker**

Dr Edmund Blomley

TDM, a modern display manager based on web technologies**Speaker**

Hao Hao

Maintainable web interfaces at beamlines**Speaker**

Seij De Leon

PyDM: Updates and roadmap**Speaker**

Mr Nolan Stelter

From testing to verification: a comprehensive methodology for industrial controls frameworks**Speaker**

Loreto Gutierrez Prendes

Continuous Integration meets industrial automation: testing industrial controls frameworks**Speaker**

Ms Loreto Gutierrez Prendes

Migration of SNS cryogenic system alarms from the softioc-based alarm handler to BEAST

Speaker

Marnelli Martinez

A server for the ATLAS time machine**Speaker**

Matthew Torres

Scalable and standardized PLC development: an automated framework for CERN's Cooling and Ventilation systems**Speaker**

Rafael Figueiras dos Santos

A flexible validation framework for streamlining hardware testing in accelerator control systems**Speaker**

Alvaro Martinez Landete

Smart guided commissioning of industrial control systems**Speaker**

Jose Manuel de Paco Soto

Smart watch and control in accelerator control system**Speaker**

Wenge Fu

Automated testing of the integrated computer control system at the National Ignition Facility**Speaker**

David Gibbard

Sisyphean Tasks: Software Development for the ACR**Speaker**

Yekta Yazar

17:45