

Session Program

29-30 Aug 2013

PLC Workshop

PLCs for Protection and Safety Systems

Ideon, Knut Wicksell
Scheelevägen 17 Lund, Sweden

Thursday 29 August

13:30

PLCs for Protection and Safety Systems

Session | **Location:** Ideon, Knut Wicksell, Scheelevägen 17 Lund, Sweden | **Convener:** Enrique Blanco

13:30–14:00 MAX IV PLC Overview

Speaker

Jonas Lindkvist

14:00–14:30

What type of PLCs for interlock systems? Architectures of PLC based interlock systems

Speaker

Manuel Zaera Sanz

Subcontributions

Safety PLCs

Options for fast processing in a PLC world e.g. Siemens FPGA module

Redundant PLCs

Using current loops in PLC based safety systems

Fieldbus technologies

14:30–15:10 ITER magnet powering interlock prototype using PLCs

Speakers

Ivan Romera Ramirez, Manuel Zaera Sanz

15:10

15:30

PLCs for Protection and Safety Systems

Session | **Location:** Ideon, Knut Wicksell, Scheelevägen 17 Lund, Sweden | **Convener:** Enrique Blanco

15:30–16:00 Test benches for PLCs

Speaker

Francesco Valentini

Subcontributions

Formal system description, testing of safety functions, test platforms

SIL and IEC 61508/61511 standard compliance, quality assurance issues

What is required? How can it be done?

16:00–16:30 PLC for the ESS target protection and safety

Speaker

Francois Plewinski

Subcontributions

Introduction to the target an target safety / protection

What functionality is required?

How to get there? Helium test loop.

16:30–17:00

Proposal for a test bench at ESS

Speaker

Daniel Piso Fernández

17:00