Slow Control Working Group

A. Fava, N. Moggi

- Conveners: A. Fava, N. Moggi.
  To be taken over by N. Moggi by himself soon.

- Present subscribers: B. Badgett, L. Bagby, M. Diwan, A. Fava, C. James, A. Menegolli, T. Nichols, D. Nicklaus, GL. Raselli, M. Rossella, G. Sava.
  More people welcome!

- Follow-up of informal group started back in 2017.
  Acting as branch of the SBN Slow Controls working group, convened by A. Fava & S. Gollapinni.

- Mailing list: ICARUS-SLOWCONTROLS@LISTSERV.FNAL.GOV

- Kick-off meeting, joint with ICARUS DAQ working group, on July 13 2018.
  No regular meetings scheduled after that: only occasional meetings as needed.

- Framework for ICARUS slow controls
  - EPICS as central software for the I/O control.
  - Control System Studio (CSS) for displays and operator panel.

- Charge of the working group
  - Design architecture and procure hardware components as needed.
  - Develop custom I/O applications (IOCs) for detector system interfaces (ex: power supplies, rack monitoring, ground monitoring etc.).
  - Tailor tools for external system interfaces, developed in common with SBND, to ICARUS needs and schedule requirements (ex: Cryogenics monitoring, Beam, DAQ etc.)

- Milestones
  - Complete the development of IOCs by March 2019.
  - Operational and slow control monitoring of DAQ processes by March 2019.
  - Tailoring of common external system interfaces to ICARUS needs by June 2019.

- Architecture & design complete, except readout of drift HV system.

- Hardware mostly procured.
  Specifications defined for components still missing.

- Custom applications for primary PMT HV, TPC bias HV and PMT readout ready.
  Applications for PMT HV distribution, TPC readout and inner sensors under development.

- Software development of external system interfaces, archiver and CSS at early stages.
  More help welcome!

- Extensive tests needed for all components.
  Test stands available at CERN and Fermilab.
  More help welcome!