

## Lab Status/ AEM Meeting Notes

Monday Aug. 7, 2017

<https://indico.fnal.gov/conferenceDisplay.py?confid=15107>

### Incidents:

- A firefighter got injured in the wrist during a simulated practice event. Had first aid and went to ER for X-rays. Investigation underway.

### Accelerator Operations:

- Shutdown work going very well.
- Scheduling power outages.

### MicroBooNE:

- Studies on superNova stream and DAQ cryogenics maintenance in July.
- Next weeks mainly dedicated to noise investigation activities.
- 24/7 shifts continue throughout summer shutdown period.
- On track to be ready for beam; planning 3 weeks off-beam data before beam returns

### MINERvA:

- DAQ run until last week; now down for upgrades.
- Working on a spare DAQ computer; replacing all CROCEs to allow remote reset (test stands on WH14E for extensive tests), addressing some nearline DAQ issues.
- MINOS magnet down for maintenance and reverse polarity switch will be repaired.
- Computing job success rate 95%, CPU eff. 77%. Loss in CPU eff due to staging input files from tape.

### NOvA:

- Running the FD in two partitions; testing a new DAQ dashboard.
- Working on ability to turn of individual nodes.
- Testing Supernova trigger data.
- Computing: job success rate 87%, CPU eff. 71%. 2017 production campaign in its final stage; focusing on antineutrino data and simulation; data analysis in high gear. 2018 production campaign to start this fall.

### SeaQuest:

- Waiting on budget situation toward E1039.
- Bases of hodoscope counters being replaced. Data analysis ongoing.

### g-2:

- No report from the experiment, but see under PPD Operations report.

### PPD Operations:

- Dmitri Denisov would like to thank the lab community who contributed to the DPF meeting. We have received a lot of positive reports about the conference. In addition to the scientific results, there were meetings with DOE and tours of our facilities.
- CMS just finished a two-week test beam campaign at CERN for the HCAL Endcap and Barrel Front End. Valuable data collected; results are expected to flow in short order.

This included prototypes of the SiPM control electronics and QIE boards. Pre-production runs are planned for the fall.

- Muon g-2
  - A mini operations review was held last Thursday covering the cryo plant, magnet, storage ring, and support systems. Have begun implementing recommendations.
  - Last week work focused on the quads and kickers. Significant progress made on bringing them up toward the performance needed for operation in the fall.
  - The coming two weeks will focus on repairs to the NMR trolley and final field shimming.
  - The new inflector winding is still ongoing. Outer coil not yet wound because they keep having problems with maintaining the electrical insulation to the mandrel with the sharp bending radii.
- Test Beam
  - The test beam continues to host summer students. Last week was the last day for North Central students and our Target students. They improved on the virtual machine instructions for outside users and built a muon tagger for behind the MTest beamline, to be used in the fall. Students from Universidad de Guanajuato, Mexico, installed their own cosmic counters, successfully passed an ORC and are taking data. They will continue for the next 2 weeks here.
  - Work continues on projects around the facility to improve things before the beam comes back.
- DES released its Year 1 cosmology results at the DPF meeting last week. The details are in a set of 10 papers. (Fermilab postdoc Alex Drlica-Wagner was the lead author on one of those.)
- SuperCDMS will hold its next collaboration meeting at Northwestern University on August 14-16.

**ND Operations:**

- ICARUS
  - ICARUS vessels delivered to Fermilab the week before last. Technicians checked the TPCs before unloading. Wires were all found ok. Some support brackets had fallen off; these can be replaced. Ready to install the ICARUS detector in the warm vessel. CERN contractor has returned home.
- protoDUNE
  - The APA #1 delivered to CERN had not been unpacked and was waiting for engineering design review. This is now completed and accepted by CERN. The APA will be unpacked and brought into the clean room.

**LBNF Project:**

- No report.

**TD Operations:**

- No report.

**Computing Operations:**CCD:

- Good week, in general.
- Some Apple Mail users were unable to sync exchange email, calendar and contacts. Microsoft released a fix on 8/6.
- TSW-ORC change broke approval workflows. Fixed.

SCD:

- Good week.
- All plots look ok. Operations are smooth.
- Plans on scheduling Sep. 19 to upgrade the general purpose cluster. More news to come.

**Office of Communication:**

- Registration for the September 23<sup>rd</sup> Open House has been open since last Wednesday, August 2. 9000 people have already registered. Plan accommodates another 11,000.
- Need Fermilab volunteers to register to help!

**Directorate:**

- Joe reiterated that the feedback on DPF last week has been great, and said that the meeting was a glowing success!
- Congress is in recess in August; working to make sure that appropriations are passed when Congress gets back in session.

**AOB:**

- There is scheduled power and water outage at Wilson Hall this Saturday, as posted, related to construction work on the 13<sup>th</sup> floor.