

## Minutes/Notes

### ICARUS Technical Meeting

8 June 2020

*Prepared by Bruce Howard*

Participants (Zoom usernames as necessary): BH, Claudio M, Gian Luca R, Alberto, Animesh C, Anna H, Bishu B, Bob W, Christian F, Donatella T, Franco S, Geoff S, Guadalupe M, Justin M, Minerba B, Omar M, Tyler B, Filippo V, Vittorio P, Bill B, Andrea S, Chris H, *and possibly more*

Claudio says that there is work going on on the recondenser. It worked for extended period before stopping yesterday.

- > There is a plan that will be implemented that will try to stop it clogging with gas.
- > Plan to test it tomorrow to see that the part will fit. If this will work can try to implement by end of the month.
- > Attempt to restart it was not successful, additional work

Isolation of the cable trays (part of ground short search) has taken better part of last week.

- > West module isolation is complete
- > East work is ongoing
- > Donatella says maybe  $\frac{2}{3}$  done, possibly can finish today
- > Claudio clarifies that this will finish the AC search
- > Next phase will be the DC search -- need to power down equipment taking detector power for this
- > Claudio says he still needs to see plan from Linda that will say how long this will take

Claudio says last week 16 PMTs were put into operation

- > Animesh says they took data with scope and DAQ on some EW and WE PMTs
  - > Signal looks okay, but needs to be analyzed more
  - > Able to control the voltages (Bertan and distributor) remotely, so they can operate remotely
- > Claudio confirms that the operation can be done remotely but not exactly user friendly so right now things are delegated to the experts in the PMT group who are capable to operate the things
- > Animesh says that the GUI developed for slow controls showed some issues on some of the channels on Friday
  - > Niccolo is working on this
- > Claudio recommended writing things on the ECL so that people are informed there are actions happening on the phototubes, and that they take care of the monitoring of the PMTs until there is something for the people on shift to use

Claudio notes the plan for work on the high voltage cabling setup/connections

- > Zack W will work on this

- > Plan to work on this later this week
- > Then need to go through the ORC
  - > Linda will take care of organizing this
- > In meantime, put the 50 ohm shorts on the wires
- > At some point will want to connect horizontal wires to the fibers/DAQ to read out these horizontal wires as the collection plane in this setup
- > Can then turn on the HV and readout these cables

Claudio notes the calls to action related to discrimination in the US and elsewhere, and the call to not have activities on Wednesday

- > We'll not have a meeting on Wednesday
- > We will have a meeting on Friday, with information on the activities

Claudio asks if Bob can report on the IB meeting:

- > Bob first states his support for the meeting/work blackout on Wednesday, to highlight systemic racism highlighted by recent events. Take time to reflect.
- > Now the IB meeting:
  - > New IB Chair -- Mark Convery from SLAC
  - > Deputy spokes -- Bob Wilson
  - > Second day of meeting was devoted to hear from new colleagues from INFN groups, heard from 4 new groups
    - > IB is enthusiastic about new members. Bob is in process of sending out emails and inviting them to the technical meeting next week.
- > Bob mentions the idea to shift to the NOvA shift scheme. Aiwu has taken new position, Diana will take over the shift coordinator position, with plans to move to NOvA scheme.
  - > May take a few weeks
  - > For now we'll continue with Claudio's shift scheme, work on transitioning to the NOvA scheme
  - > Aiwu has said he will help with the transition also
- > Claudio says he is excited by this transition

Claudio reminds that we have a technical meeting next week

- > Was an agenda sent out? Yes.
  - > Geoff later confirms that it was sent to the ICARUS collaboration list on June 3
- > Bob reminds: First day devoted to technical things. Claudio is the lead planner of this session but the WG conveners should make plans to have presentations with the people working in the group.
  - > Tight schedule. Hopefully some practice, try to stick to schedule
  - > Section on the Control Room - important from the idea of once we're able to use the main ICARUS Control Room(s) again, but also from the point of view of the remote shifting

Claudio reminds there will be the usual Thursday work planning meeting with Carrie, planning for next week and reporting on the status of work from this week

Then reports on the phototubes and ground short search in the meeting on Friday

Adjourned: 10:56am