



## Detector Support Group

### Weekly Report, 2015-12-16

#### Antonioli, Mary Ann

##### Hall B

##### DC

- Tested 9 HV cards (216 channels).
  - ★ Each channel was tested individually for voltage, current, and current-trip.
  - ★ One card had no current on channel 16 and one card had four channels that did not ramp up to full voltage.
  - ★ A total of 19 of 42 cards tested.

##### DSG

- Researched exporting LabVIEW to Excel.
- Worked with Amanda and Tyler on cRIO system.
  - ★ Using system and RTD, graphed temperature of room, and wrote to text file.
- Resolved issue with Tyler's phone line and problem of procuring safety shoes for Amanda and Tyler.

#### Arslan, Sahin

##### Hall B

##### DC

- Cut, with Mindy, DC LV Cables for DC:R3S1 (SL5/SL6); DC:R3S5 (SL5/SL6); DC:R3S6 (SL5/SL6); SL ~ Super Layer.
  - ★ A total of 42 cables.
- Testing continuity on DC LV cables.
- Prepared, with Mindy, DC:R1S4 to be tested in EEL 125.
  - ★ Removed scintillator panels, moved frame at nose closer to back of chamber, then placed panels in new location.
- Cleaned 3 HV modules and 3 HV crates.

#### Bonneau, Peter

No report – sick

#### Eng, Brian

##### Hall B

##### SVT

- Made HV plots for some R4 modules and made logbook entry.
- Sent ACC list of problems, the biggest being EDM crashes; still no response.
- SVT Meeting - Gilfoyle showed updates on alignment code

##### Micromegas

- Configured Axis network camera for Micromegas bubblers, need more hardware to mount to/in rack.

##### HDIce

- Submitted work request to machine shop for 50 brass inserts.



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#### Forward Tagger

- Found rack mountable NIM bin and power cord for Raffaella.

#### **Hall D**

- **Working** on PLCs with Dave & Nick.
  - ★ Updated solenoid PLC to use convectron gauges instead of cold cathodes for vacuum interlock.

#### **Hoebel, Amanda**

##### **Hall B**

##### HDICE

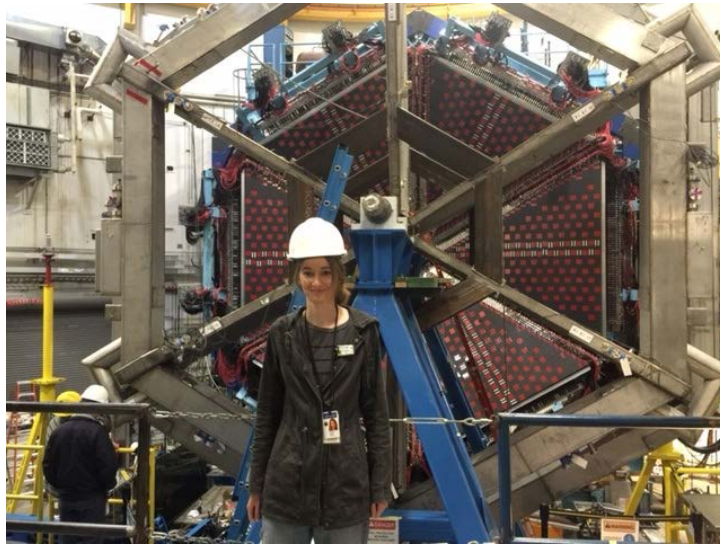
- Attended review.
  - ★ New RF cables need to be made – plan is to be done by January for testing.

##### SVT

- Noted current draw from HV and LV sensors.
  - ★ The sensor HV current was around 200[nA] and the LV current was ~300[mA] for analog side and 150[mA] for digital side.
  - ★ Created a spreadsheet for the current data.

##### Detector

- Toured the hall.



Picture shows Amanda in front of the Clas12 PCAL

#### **Hall D**

##### Detector

- Monitored logbook.
  - ★ FCAL HV alarm for FCAL: hv:17:21 kept going off.
  - ★ Timeout was increased to 60 [s] to stop tripping of the alarm.
  - ★ Alarm is enabled but still misbehaving (current that sets off alarm is still high).



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#### DSG

- Obtained safety shoes, Accelerator user account, cryptocard.
- **Worked** on cRIO with Mary Ann and Tyler.
  - ★ Hooked up cRIO to the computer.
  - ★ Wrote LabVIEW program to read temperature of room using cRIO's RTD module—average room temperature was 74.5[°F].

#### Jacobs, George

No report - sick

#### Leffel, Mindy

##### Hall B

##### DC

- Printed all labels for R2 LV and started R3.
- Terminated LV cables R2 LV S1 and S2.
- Cut with Sahin LV cables, R2 complete, started R3.
- Prepared, with Mindy, DC:R1S4 to be tested in EEL 125.

Removed scintillator panels, moved frame at nose closer to back of chamber, then placed panels in new location Micromegas

- Terminated LV cable, with six position AMP connector.

#### Lemon, Tyler

##### Hall B

- Toured hall with Amanda, Marc, and Sahin.



CLAS 12 Torus Magnet in Hall B

#### SVT



## Detector Support Group

### Weekly Report, 2015-12-16

- Familiarized myself with method on how to remotely login to Linux servers to access MYA database.

### HDice

- Attended review.
  - ★ Flexible RF cables manufactured by Molex will be used
  - ★ All connectors for cables will need to be fabricated here at JLab.

### DSG

#### cRIO Test Station

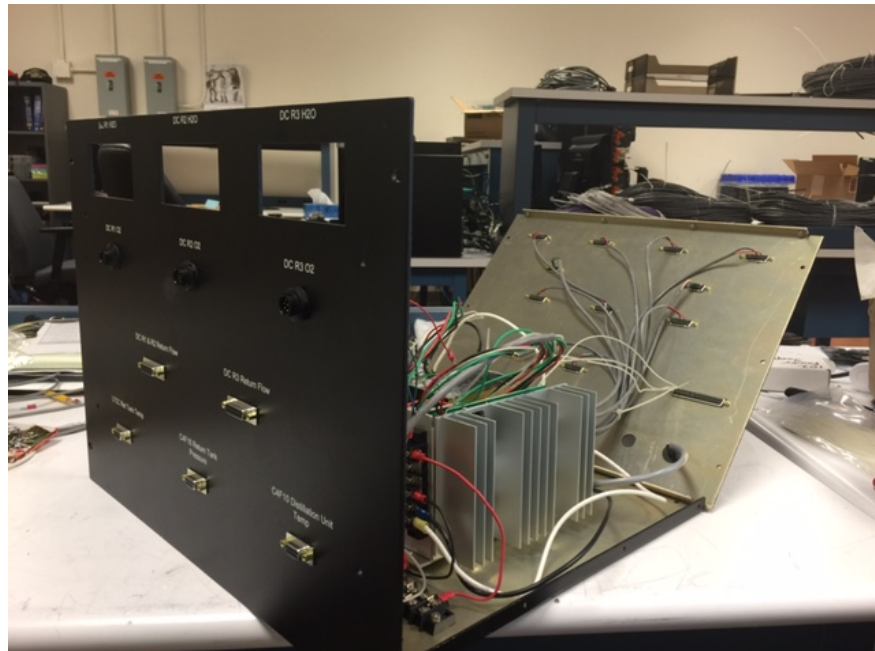
- Established communication between CRIO and PC with Amanda
  - ★ Connected CRIO processor and PC using a USB cable
  - ★ Created a new project file in Labview
- Wrote program with Amanda and Mary Ann in Labview for RTD on CRIO
  - ★ used an RTD input to displayed temperature over time in a graph
  - ★ wrote the temperatures to a text file
  - ★ wrote temperatures and time to Excel file
- Programmed a Gaussian probability distribution in Labview and Mathematica
  - ★ Used C++ compiler and Labview to write a program for prime factorization.

### McMullen, Marc

#### Hall B

#### Gas System

- Continued work on the third Gas Controls chassis, which will be installed in the gas shed. Interconnecting panel connector to barrier blocks and connectors.





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Chassis 3 for gas system, fabrication in progress.

- Conducted tour of end station and counting house with Arslan for Amanda and Tyler.

#### Hall D

- Coordinated training walkthrough for Amanda and Tyler.

#### DSG

##### Safety

- Informed Sharabian HTCC work controls documents must be posted.
- Checked that all work control documents for detectors in EEL are posted.
- Latest DC test setup document is completed and being reviewed for approval.

#### Sitnikov, Anatoly

- No report - vacation