

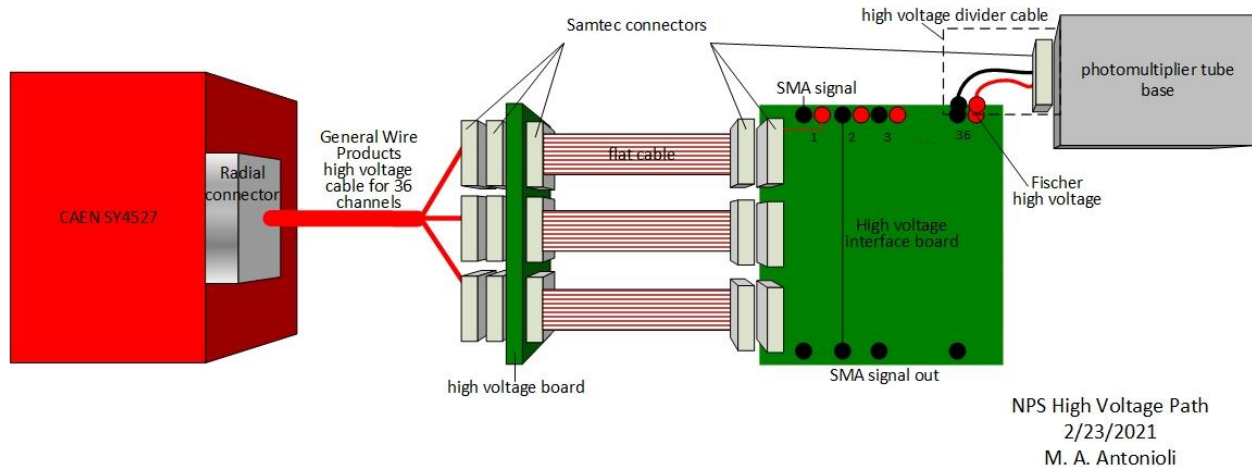
## DSG-NPS R&D Meeting Minutes

**Date:** February 23, 2021

**Time:** 11:00AM – 12:30 PM

*Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran*

### 1. Reviewed HV path diagram developed by Aaron Brown and Mary Ann Antonioli



### 2. Hardware Interlock System development

- 2.1. Brian Eng set up the Keysight system in the DSG Control Room; connected it to the DSGCOMP10 PC on the Hall B subnet
- 2.2. Discussed contour plot made by Aaron Brown for dew point as a function of temperature and relative humidity; based on plot, dew point interlock now set at  $\leq 4^{\circ}\text{C}$
- 2.3. Discussed location of shielded enclosure; Aaron Brown showed diagram with two possible locations for [shielded enclosure](#)

### 3. Module Testing

- 3.1. Ramp testing of CAEN A1535 and A7435 HV modules complete
  - 3.1.1. Modules 556 and 766 failed; these modules will not be trip tested
- 3.2. Mary Ann Antonioli will place all testing analysis plots on the DSG Hall C Technical Documentation webpage

### 4. Cable fabrication/testing

- 4.1. Mindy Leffel completed five Radial-to-SAMTEC-connectors HV cables
- 4.2. The spare HV board and flat cables from IPN Orsay have cleared U.S. Customs and should arrive at JLab within a week
- 4.3. Marc McMullen is developing test chassis for Radial-to-SAMTEC-connectors HV cables
  - 4.3.1. Discussed AutoCAD PCB schematic showing safety loop routed through all three SAMTEC connectors