Project sequence	Project	Number needed	Number completed	Project finished
1	Epoxy G10 slats to wire plates	8	8	~
2	Epoxy G10 slats to spacer plates	8	7	
3	Sand preamp cards to correct size	48	0	
4	Sand HV cards to correct size	48	0	
5	Attach HV capacitors to preamp card, test preamp card	48	1	
6	Epoxy preamp and HV bias cards to wire plates	8	0	
7	(a) Bolt together wire and spacer plates,(b) attach wheels, (c) move to PhysicalScience Building (PSB)	8	0	
8	In PSB clean-room: (a) string carbon-tube wires and in-between field wires, (b) HV test, (c) string remainder of sense and field wires, (d) close detector, flow gas, bias HV and LV, fix problems	8	0	
9	Prepare MWPCs for shipment to JLab	8	0	

1/(2πR_FC_F) = $\sqrt{(GBP/(4πR_FC_D))}$ C_F = 0.3 pF C_F is predicted to increase with the square root of C_D



Title					
Sense Channel Circuit					
Author					
Bobby Johnston					
UMass MENP					
File	Document				
C:\Users\Bob					
Revision	Date	Sheets			
12	June 19, 2017	1 of 1			



amp input



Conclusion:

- Optimizing the feedback capacitance value will have a marginal effect on the electronics noise, already less than 2 mV p-p.
- Little benefit to be gained in replacing 24 feedback capacitors per board.

Plan for moving forward

- Size the electronics cards using a belt sander. Bobby did this by hand using sandpaper
- Attach the HV blocking capacitors to the preamp cards
- Test preamp cards
- Epoxy the preamp and HV cards to the wire plates.