

HPRT MEETING MINUTES

Staff Meeting

Honeywell Pressure Regulator Team (HPRT)

Friday, 23 February 2018

10:00 - 10:35 AM

Minutes recorded by: Myla Azofeifa

Meeting called by: Alex Rustaey

Attendees: William McGinn, Alex Rustaey, Jordan Loos, Yi Tong Zhang, Dr. David Trevas,

Table 1 - Record of Meeting

10:00 AM	Begin Meeting <ul style="list-style-type: none">• Meeting called to order by initiation of Skype call• Topics:<ul style="list-style-type: none">○ Bellows Updates○ Turboexpander Updates○ Collaboration session	EGR 323
	Bellows Updates	
	Anything we need help with <ul style="list-style-type: none">• Geometry• Bellows fabricator<ul style="list-style-type: none">○ (HF) can check for us	
	Updates <ul style="list-style-type: none">• Moving away from turboexpander• Bellows is better suited for filling requirements• This is the prototype that we want to pursue• Send pictures of prototype/records to HF•	
	Individual Analysis <ul style="list-style-type: none">• Bill: 3-D Printing on the bellows• Peter: Geometry of how bellows move under a force• Jordan: Describe how the area varies; projected area in 2-D; assume that's not hyperbolic; show the trends• Myla: material of the bellows; what we're using and now and what we want to use going for	

	<ul style="list-style-type: none"> Alex: Detail test data between stroke position and ΔP; design something that's the actual construction of the prototype 	
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Table 2 - Action Items (Tasks Assigned)

Tasks	Person Assigned	Due Date	Date Complete
Update schedule.			
Send Haley & Dave CAD package and sketches of the geometric modeling of the bellows valve area enclosure.	All	ASAP	
Update semester schedule and send to Haley & Dave.	All	ASAP	
Continue designing turbine concepts.	Alex Rustaey	02/02/2018	
Use Buckingham Pi Theorem to nondimensionalize the problem. Design circuit for the loading.	Yi Tong Zhang	02/09/2018	
Look into alternators and motors/generators.	Myla Azofeifa	02/09/2018	
Test bellow valve. → Lab will be open on Tu/Th when Dr. Trevas is in there for 495L. Planning on Thursday, sometime between 2:20-5:00pm.	Bill McGinn	02/09/2018	
Determine geometric model for the area enclosure. Talk to the math department; coordinate with Honeywell.	Jordan Loos	02/09/2018	
<i>Complete shop safety training. Must be done on a weekday at 9:30am. Contact Kellan Rothfus for more information.</i>	<i>Jordan Loos Bill McGinn Alex Rustaey Yi Tong Zhang</i>	<i>Spring 2018</i>	<i>Alex - 10/24/2017</i>

Next formal meeting: Friday, 16 February 2018, EGR 323, 10:00AM