## Leak test progress

July 10<sup>th</sup> UMN

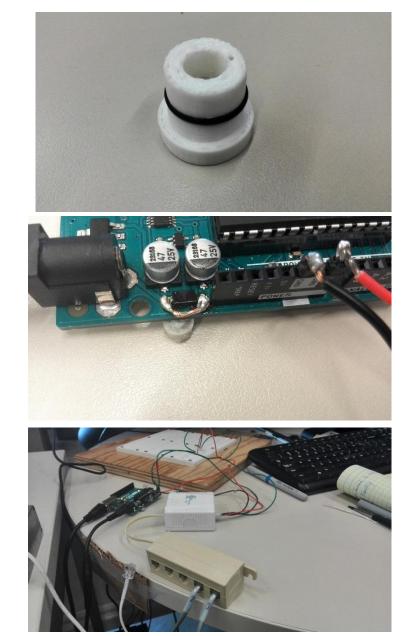
Yan Ke

## **Apparatus Progress**

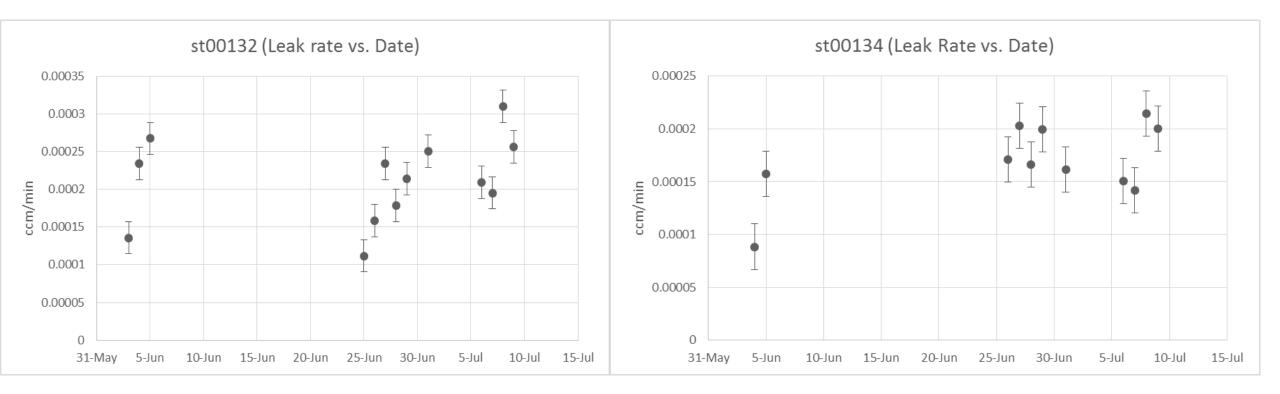
• 3D printing part is ready:

Voltage problem due to
Arduino chip has been solved

- New splitter has been set up.
- New Arduino code:
  - No fixed time delay in program. Can take data accurately.
  - Will not keep waiting for one sensor.



## Leak test Progress



The memory thing did not occur again

## Problem

- Phone wire problem: All of the phone wires should be similar when running multiple sensors. -Hajime
- Uncertainty calculated by RMS is very similar to LSQ, still smaller than what it should be.

start	-	slope	uncertain(LSQ)	uncertain(RMS)
Ø		2.75	1.51	1.50
90		3.69	1.40	1.40
180		4.87	1.63	1.63
270		3.34	1.45	1.45
360		-2.58	1.56	1.56
450		-0.75	1.65	1.65
540		1.19	1.45	1.46
630		-0.62	1.59	1.60
720		3.75	1.57	1.57
810		2.10	1.45	1.45
Over	all:	2.18	0.04	0.04