Global Part of Slow-Control System

- Updates
  - Astrid is re-installing all monitoring software (like CS-Studio) for new server (`e1039scrun`)
  - HDD of UIUC computer (which will be used to launch GUIs at control room) was found broken. Need to get new HDD/SSD and install OS
- Plans
  - Paul/Astrid will confirm all server processes always auto-start properly after `e1039scrun` reboots
  - Kenichi will bring up GUIs at control room
  - Hopefully by end of next week

NMR Computer

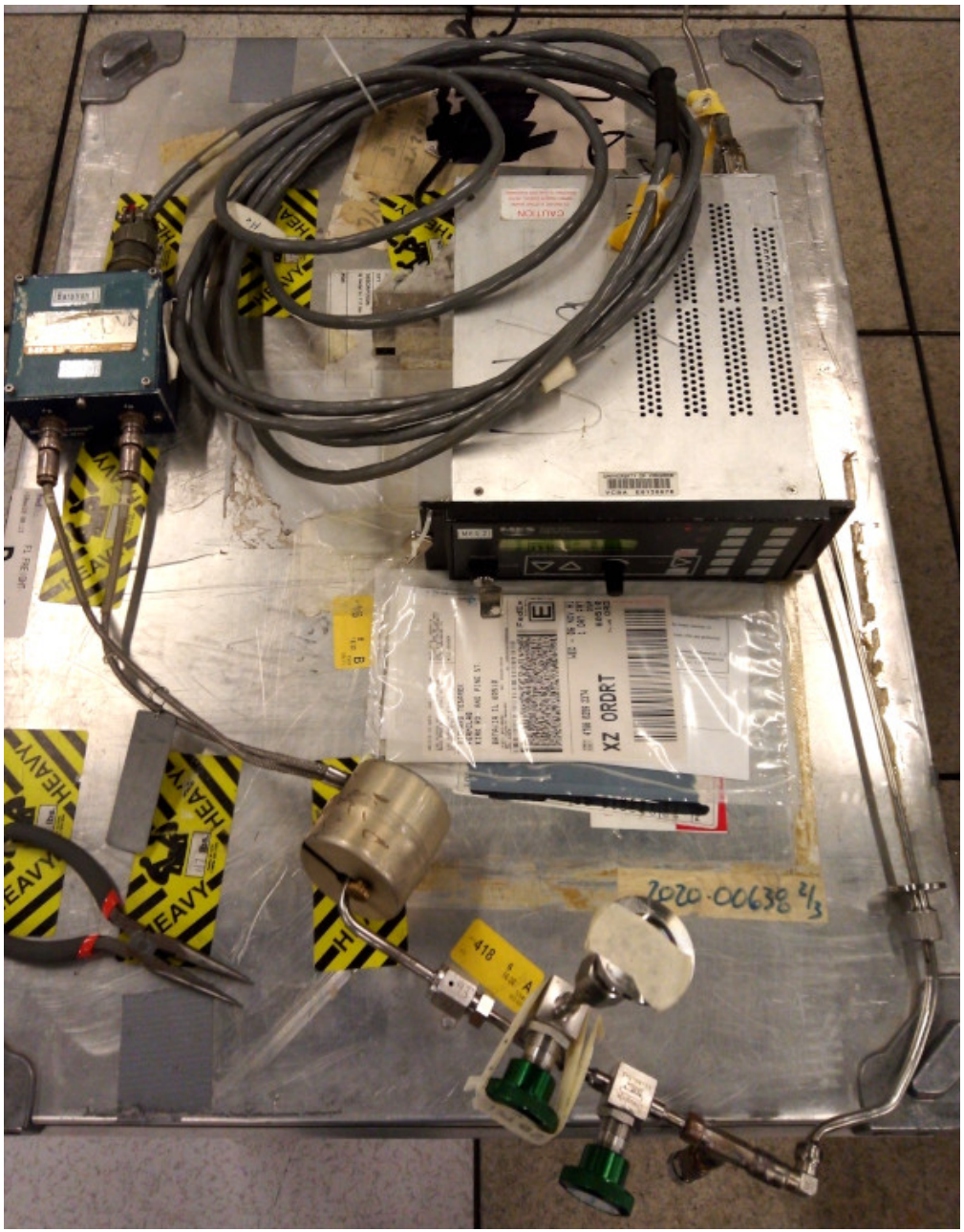
- Spec at present
  - Dell XPS 8940
  - Core i7-10700
  - RAM 16 GB
  - HDD 1 TB
  - Full-height PCI slots — for NI PCIe-8375 interface card
  - Windows 10 Home
  - Any note about installation??
- Preparation for spare
  - Windows under UVA license
    - https://virginia.service-now.com/its/?id=itsweb_kb_article&sys_id=d36122f9db719740f032f1f51d9619f2
    - “Education” (not “Pro”)
    - Valid only for university-owned computer
    - Valid only when older version is running on computer
  - Will find a similar model at Dell
- Plans
  - Purchase and set up the new computer in December
  - Exchange it with the existing computer
  - Upgrade the existing computer to Pro/Education and keep it as spare

MKS 615

- Manual:

  `https://manualzz.com/doc/4458938/`

- Basic test @ counting house
  - Under atmosphere pressure
  - Sensor = Aluminum cylinder
  - Preamp = Blue box, MKS 615
  - Controller = MKS 670
- Readout scale
  - Pressure range = 100 Torr
    — according to blue-box label
  - Preamp output:
    100 Torr = +10 V??
    — Expected by MKS 670



- Sensor function
  - P_X = Pressure for measurement
  - P_R = “Zero” pressure reference, using “built-in” high vacuum
  - The P_R cable was disconnected (by time?) and thus resoldered yesterday
- Result
  - MKS 670 showed “OVERRANGE” (13.4 V), reasonable under atmosphere pressure
    - “UNDERRANGE” (-12.4 V) before P_R cable was resoldered
- Plan: Test with low pressure
  - Cool down the long probe, using LN2
  - Expect a low pressure, below 100 Torr