Controlling πPC Mass Flow Controller
(Must use 32-bit version of Java and Internet Explorer)

Control Mass Flow Controller via Laptop (see IT to control over network computer):

- Go to "**Tools**" in Internet Explorer (gear icon in the upper right-hand corner)
- Go to "**Manage Add-Ons**"
  - Make sure all **Oracle** software is "**Enabled**"
- Make sure computer is **NOT** connected to the internet
- Connect computer to mass flow controller via ethernet cable
- Go to the windows search bar (bottom left) and search "**Status and Tasks**"
  - Right click "**Ethernet**" and select "**Properties**"
  - Go to "**Networking**" tab
  - Make sure **ONLY** the first 4 boxes are selected
  - Select "**Internet Protocol Version 4 (TCP/IPv4)**"
    - Last digit of IP address should be changed: 192.168.30.2 → 192.168.30.1
    - Subnet Mask should be: 255.255.255.0
    - Leave Default Gateway to whatever number it defaults to
- Open Internet Explorer Browser
  - Enter IP address into URL: http://192.168.30.2

Using Mass Flow Controller:

- To set pressure you must be in "**Setup**" mode
- Go to "**Configuration**" tab
  - Type in password *config* and select "**Change Settings**"
- Go to "**Plot**" tab
  - Enter pressure in Torr in "**Set Point**" field and click "**Submit**"

Troubleshooting:

- To plot the pressure you must enable security permission in Java
  - Go to "**Control Panel**" and select the "**Large Icons**" view
  - Select "**Java (32-bit)**"

- ○ Select "**Security**" tab
  - ■ Add the IP address http://192.168.30.2 to "**Exception Site List**"
- ○ Open new Internet Explorer browser and return to Mass Flow Controller page (see above)
- ○ Now you can go to "**Select Variables**", "**Select Rate**", and "**Start**"
- ● To save a plot
  - ○ Go to **C:/ProgramFiles(x86)/Java/jrel.8.0_191/lib/security**
    - ■ Or go wherever you saved the program files for your version of Java
  - ○ Edit the **java.policy** file
    - ■ Add the following bold text as a new line: **Permission java.security.AllPermission;**
  - ○ If this doesn't work, copy the file to somewhere else, edit it, then replace it in the original folder
    - ■ Then reopen browser and try to save again