

## Instructions for the ACE600 instrument (Sputter) 10-12-15 Hiram

Please note that the instrument's vacuum is always on. Before you start please check that both, the Argon and Nitrogen tank are not empty and are open. **Wear gloves ALL the time.** Any questions or problems let Hiram know.

- 1- Press the Sputtering icon on screen. The vacuum should be  $10^{-7}$  mbars.
- 2- The parameters for the last run should appear on the screen. For Slides and catheters the "Characteristics" should be these;

**Material –Pt, Current 35 mA, Ar  $5 \times 10^{-2}$ , WD 50mm, Tilt, 0.0**

**Thickness 10nm, sample height 4mm**

Press the "Vent" icon on top, the pressure will decrease to  $10^3$  mbars, this can take up to 10-15 min.

- 3- Have your samples ready to load. On the bench next to your samples place a clean piece of foil (~ 30 X 30 cm). Open the door of the instrument, the platform can be removed to the foil on the table top for easy loading of samples. Make sure you see how this is done first before you attempt to do it by yourself.
- 4- Place samples on platform, open door of instrument and with both hands load the platform back. The platform should be completely flat on the stem. **If you have difficulties please stop and get help. Severe damage to the instrument will occur if you try to run the sputter with an incorrectly installed platform.**
- 5- Close the door and press "Start" icon. The vacuum pump will start pumping until the vacuum is at  $10^{-2}$  mbars. This will take about ten minutes. Once the vacuum level is right the sputtering will begin.
- 6- When the screen displays "Complete" press initializing icon, wait a few minutes until chamber is completely vented before opening door. **Do not force door open, the door will not open until chamber is COMPLETELY vented.**
- 7- Open door, remove platform as before and get your samples. Return the platform to its place as you did before, close door and press pump. Leave area clean and put all accessories back in the drawer. You are done.