**Sputter coating**

This procedure is for the Nanotech SEMPrep II.

1. Plug in instrument.
2. Open main valve on top of the argon tank 2-3 turns. Gauge should not exceed 5 psi.
3. Press MAINS button on.
4. Press and hold VENT button for 30-40 seconds.
5. With care remove top lid of the glass bell-jar. Place top lid right up on table top with the gold target downwards. Never the touch gold target with hands.
6. Carefully remove the glass bell-jar.
7. Unscrew the outer shield being careful not to turn lower ring.
8. Place SEM stubs into the six holes.
9. Screw the outer shield into place. Hand tighten only. Do not turn the lower ring.
10. Replace bell-jar and top lid. Make sure it’s closed.
11. Press PUMP button.
12. When vacuum meter reads between 0.04 - 0.03 TORR press and hold VENT button for 20 seconds.
13. Depress AUTO button.
14. After coating is complete repeat steps 4-11 to remove specimens.
15. When vacuum meter reads between 0.04 - 0.03 TORR release MAINS button. Then close valve on top of argon tank.
16. Sign in the Supplies Log Book for Gold Sputter Coating Run.