

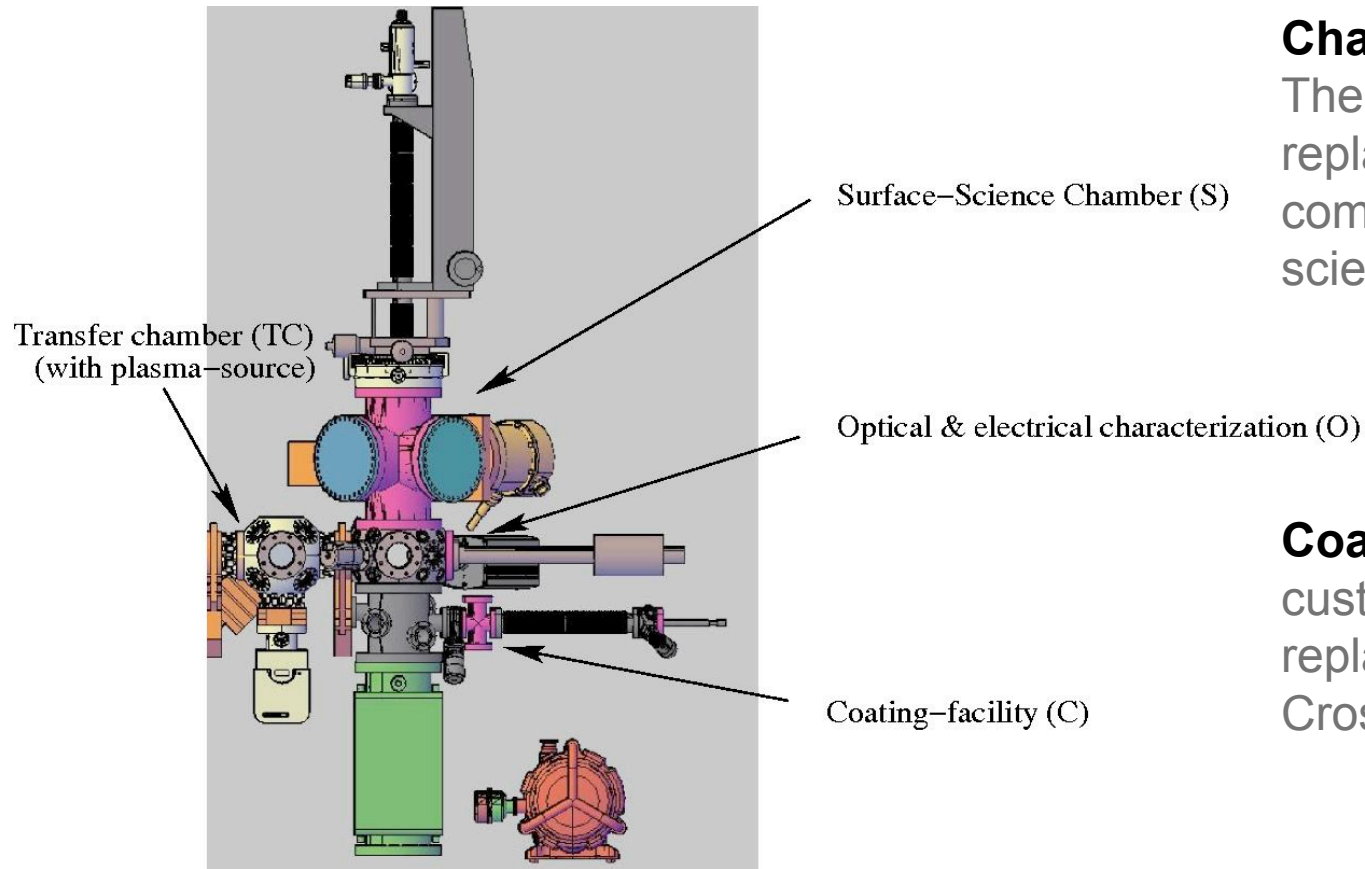
UHV-Growth & Characterization Chamber at ANL

Naming Convention for Chamber Parts and Flanges

AK (Ver 0.0)

8/31/2011

The Full Developed Characterization Tower



Surface Science Chamber (S):

The 8"-Double-Cross was replaced with a commercial surface science chamber

Coating chamber (C):

customized chamber will replace current 8"-Double-Cross chamber



The Full Developed Sample Transfer Chamber-System

Additional Chamber (TP) 4 1/2 Kimball which is connected to turbo-pump Chamber (TC) hosting sample magazine and plasma source Optical characterization Chamber (Kimball) (O)



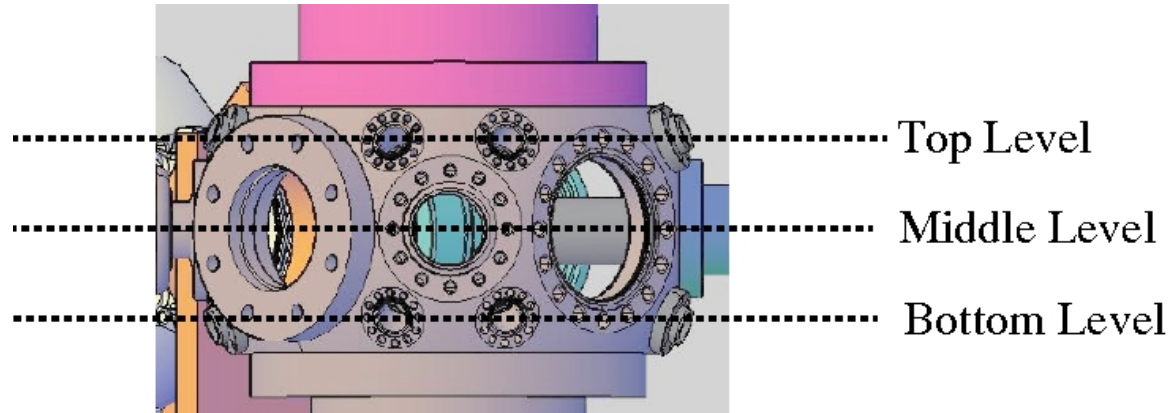
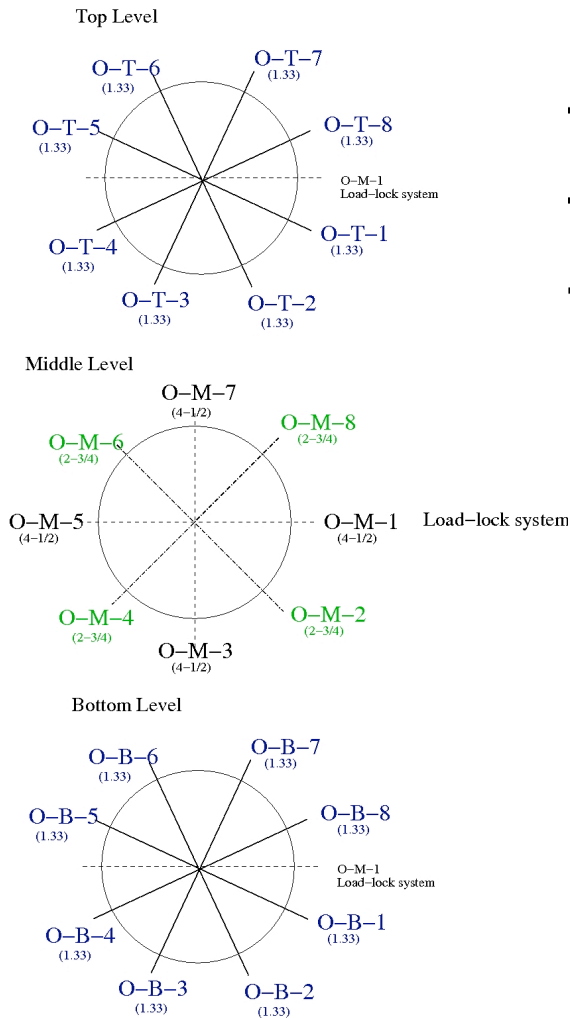
Transfer arm with small chamber and manual gate valve

Gate-valve (4 1/2) Electro-pneumatic

Transfer arm allowing to decouple vacuum from sample load-arm

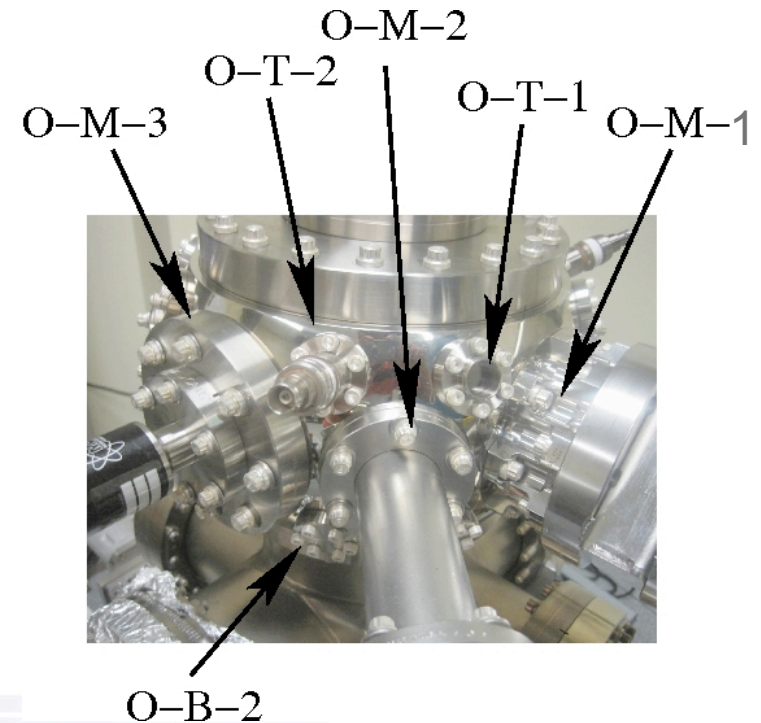


Naming Convention: Example of Optical and Electrical Characterization Chamber (O)

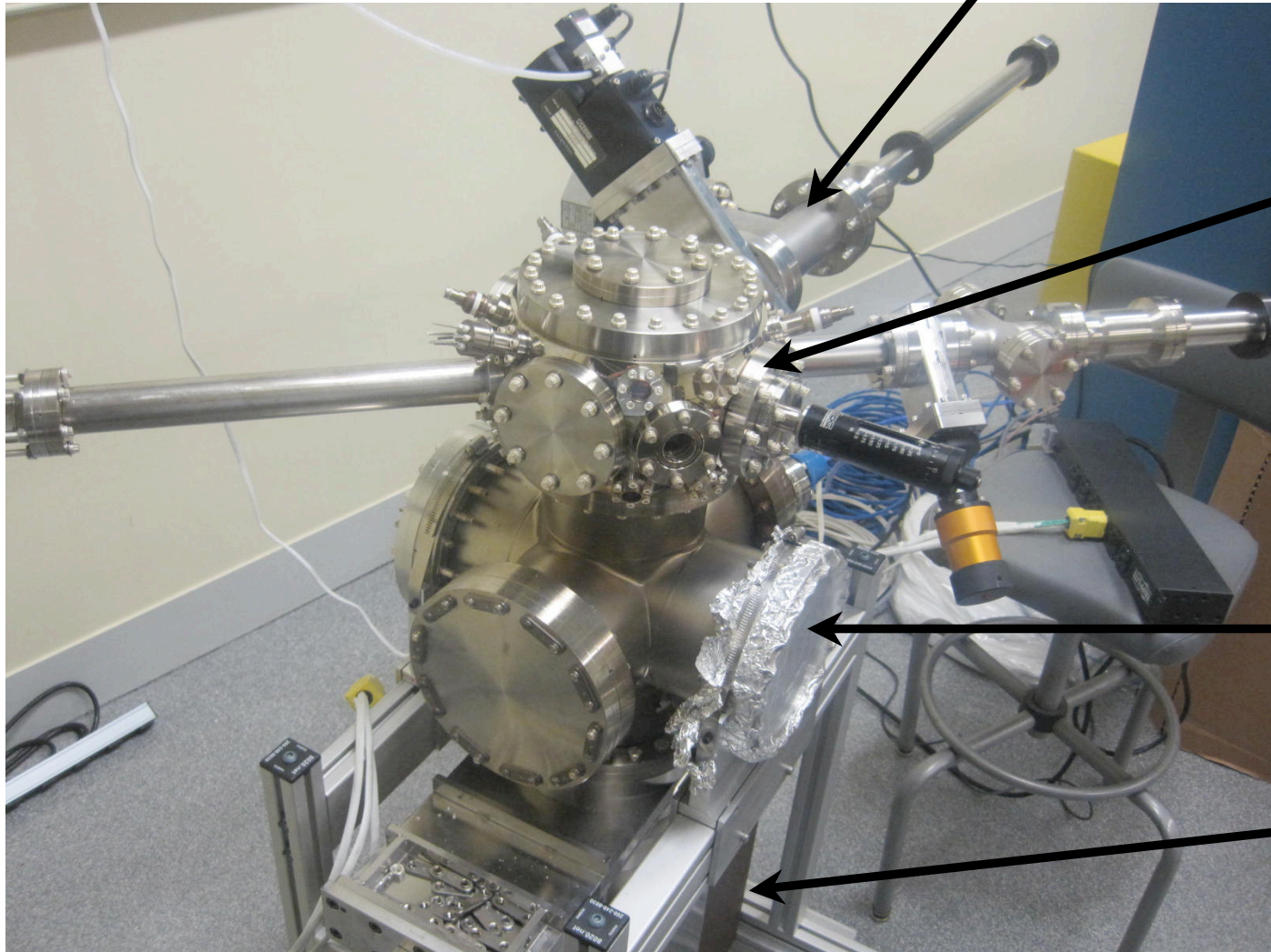


An example:

(each of the chambers will get a table with the flange and the current usage)



What do We Have Now:



Start of sample transfer chamber system (T....)

Optical and electrical Characterization (O)

Coating Facility (C)
(currently not populated)

Ion-Pump
(now separated with a gate-valve)





Documentation in Progress:

- Table with all flanges (names), their current use, and comments
- Document describing the evolution of the current chamber system to the final chamber; This will be done in 4 phases
- Describing the milestones of each phase and the experiments planned in these phases
- Project planning: required resources

