
ANSEL Lab Virtual Tour

Virtual Tour ANSEL Lab: Bausch & Lomb Building



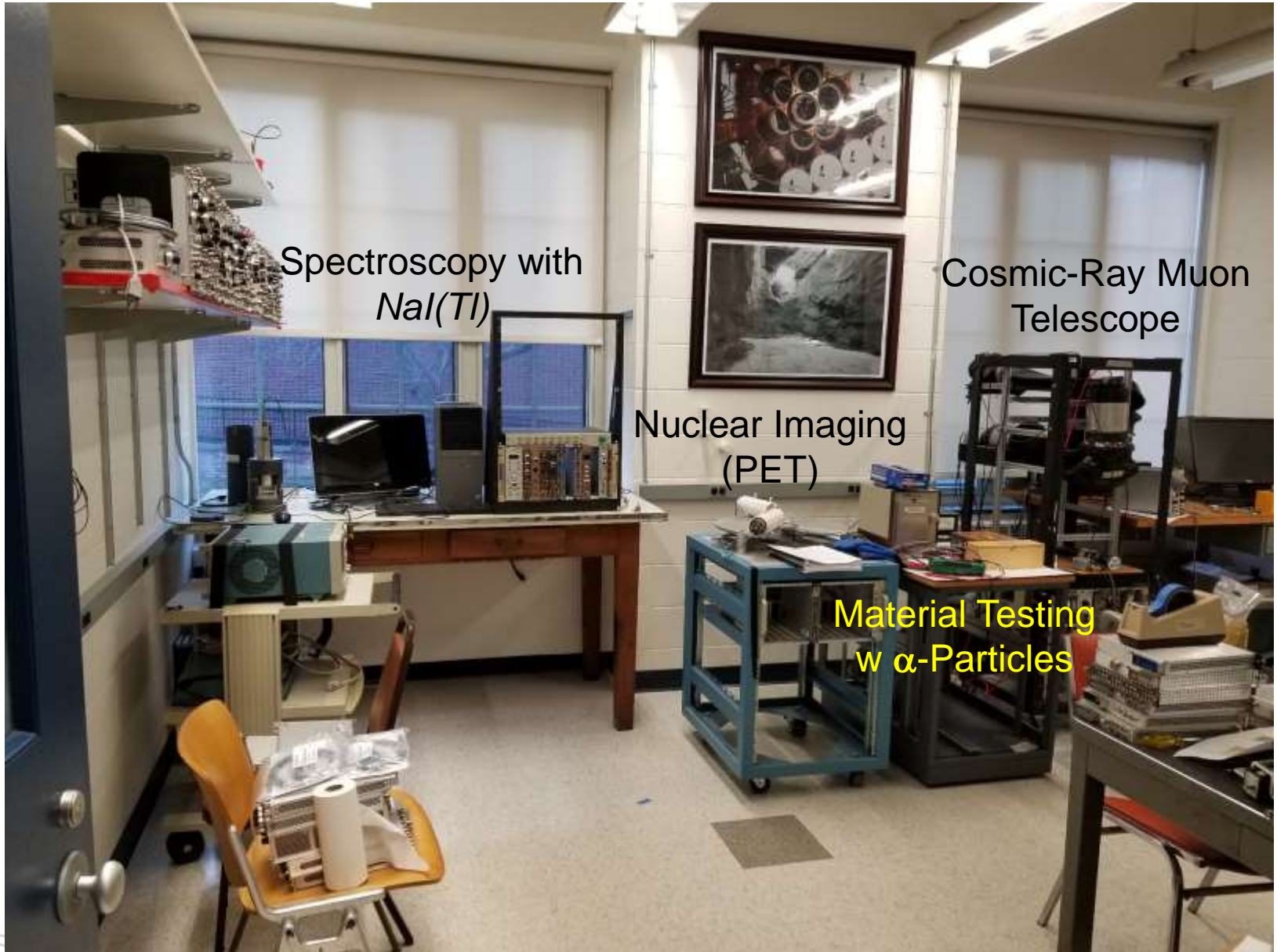
Entrance at Quadrangle

Virtual Tour ANSEL Lab: B&L 156



Warm-up Room

Virtual Tour ANSEL Lab: B&L 152



Spectroscopy with
NaI(Tl)

Nuclear Imaging
(PET)

Cosmic-Ray Muon
Telescope

Material Testing
w α -Particles

Virtual Tour ANSEL Lab: B&L 152

High-Resolution Spectroscopy with *HPGe* Detector
Ge-NaI Coincidence Imaging

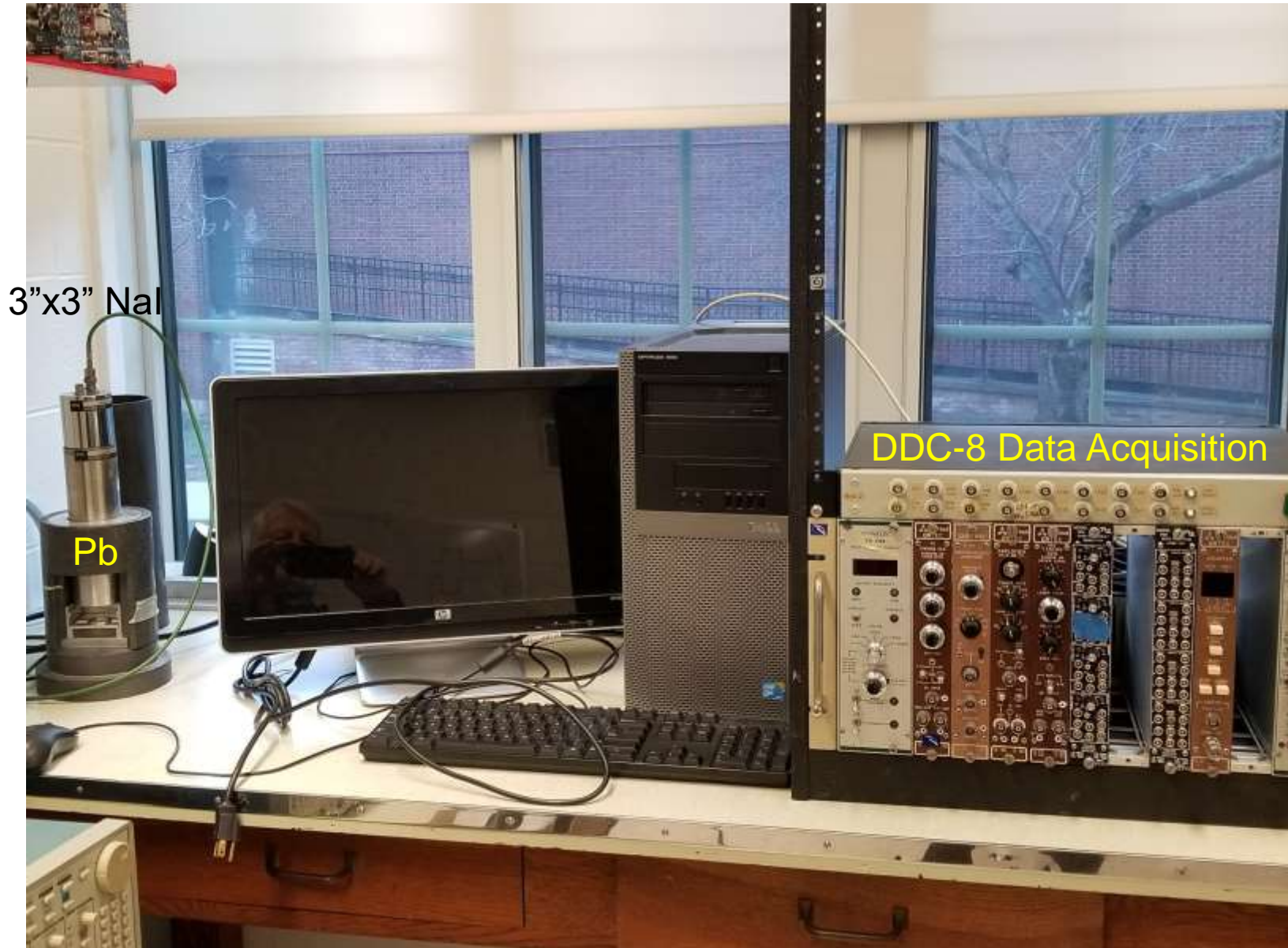
HPGe

NaI(Tl)

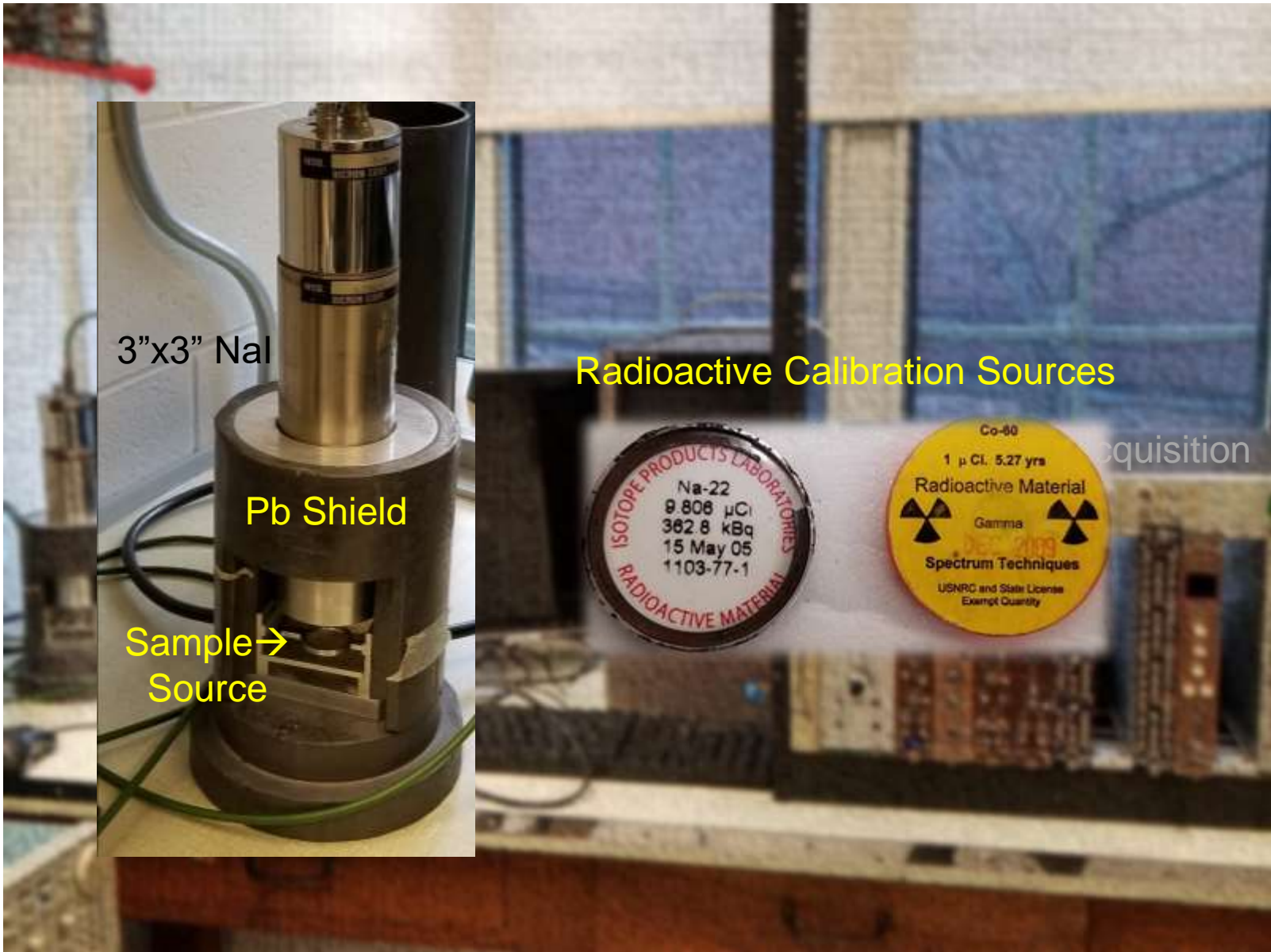
HPGe-
Dewar



Virtual Tour ANSEL Lab: B&L 152



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3"x3" NaI

Pb Shield

Sample →
Source

Radioactive Calibration Sources

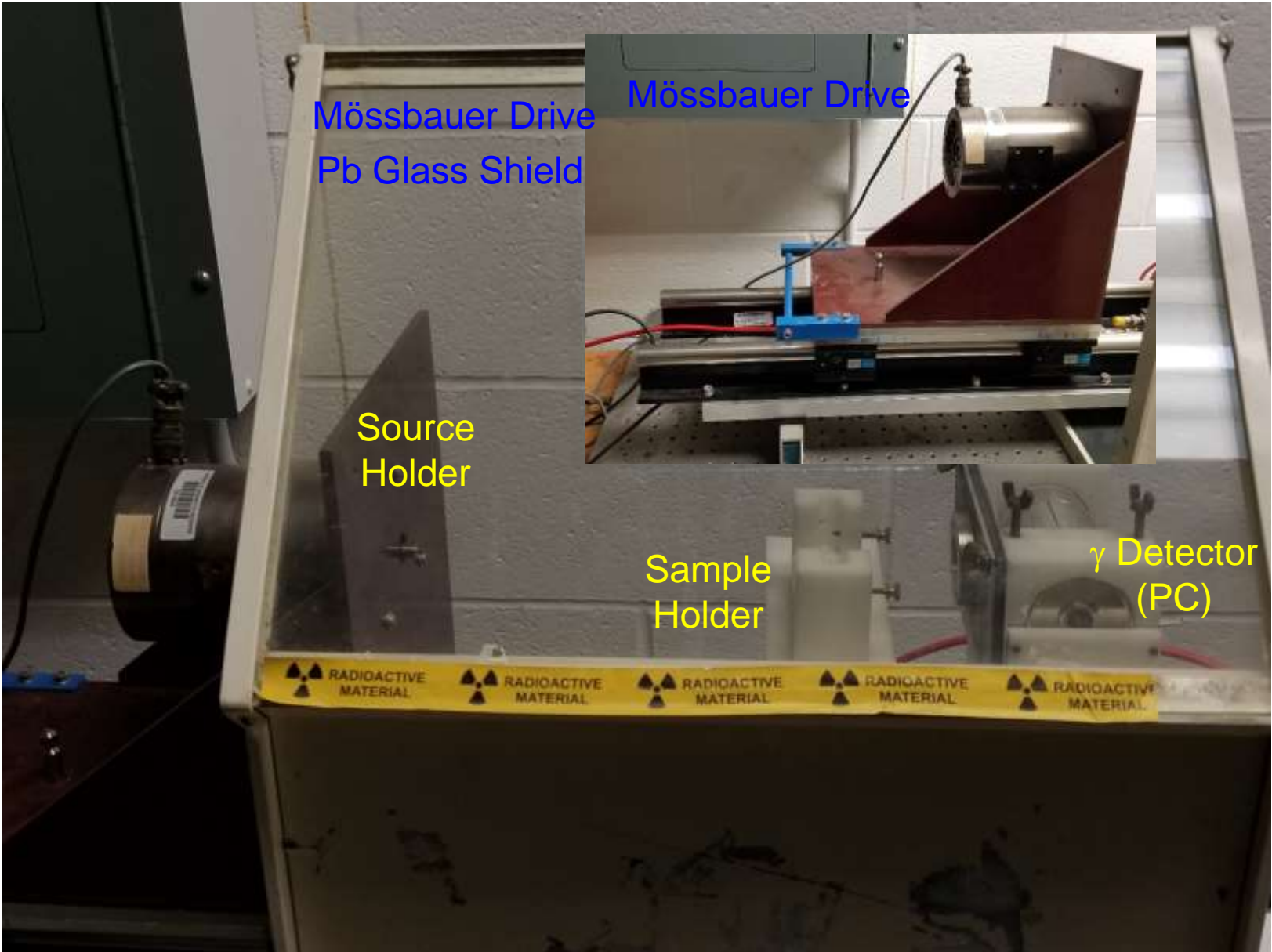
Acquisition



Virtual Tour ANSEL Lab: B&L 171 Mössbauer Expt.



Virtual Tour ANSEL Lab: B&L 171 Mössbauer Expt.



Virtual Tour ANSEL Lab: Hutchison Hall

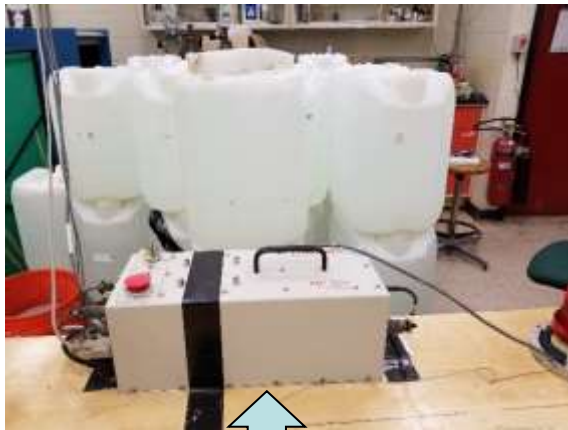


Hutchison Hall Rooms 441/442

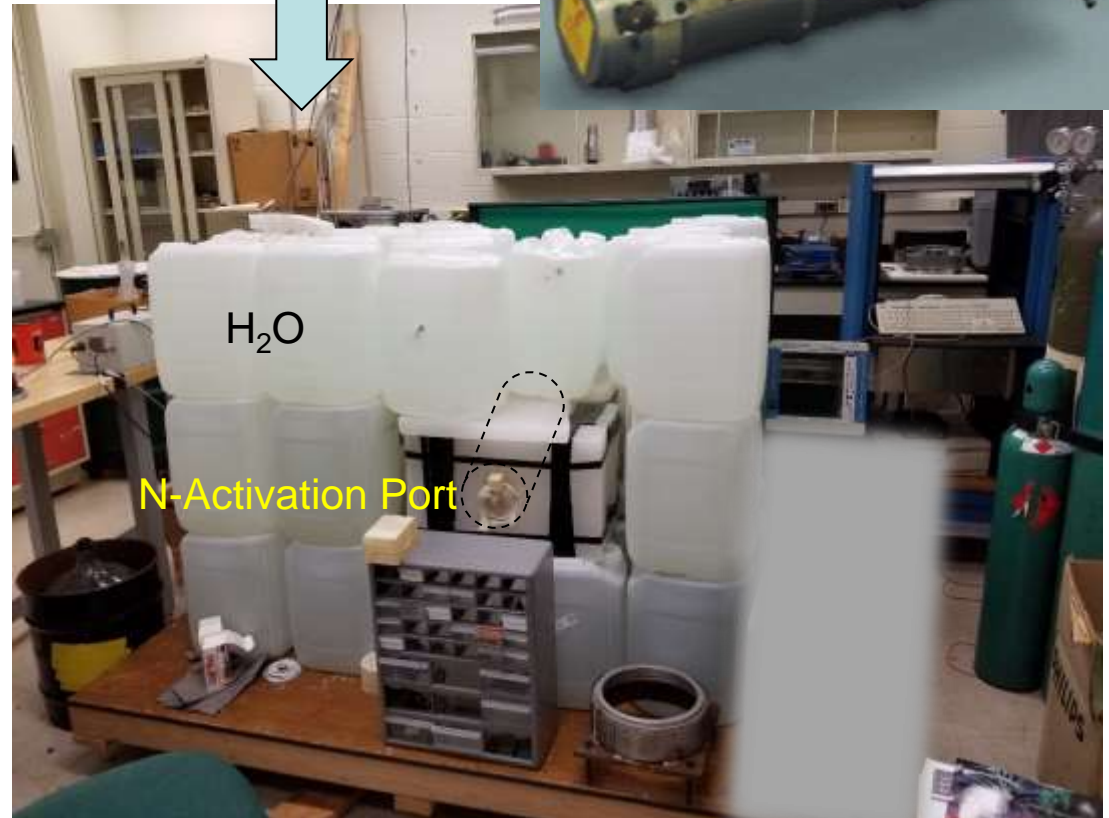


Neutron Generator Hutchison Hall Room 442

Neutron generator produces neutrons of $E_n=2.45$ MeV energy. “Castle” of water canisters and paraffine plates for neutron shielding/absorption. Paraffine for moderating neutrons to thermal energies $E_n \sim 25$ meV \rightarrow efficient capture by materials \rightarrow “neutron activated” \rightarrow material analysis



Generator control electronics



Neutron Activator Hutchison Hall Room 442



Paraffine filled n-Activator drum has strong Am-Be neutron source in its center → thermal neutrons



End of ANSEL Tour