

The background features a dark blue gradient with a starry space pattern. On the left side, there are several technical diagrams, including a large circular scale with numerical markings from 140 to 260 and various circular paths with arrows indicating direction. The main title is centered on the right side in a large, white, sans-serif font.

# NPS SWEEP MAGNET STATUS AND TEST PLAN

CHARLES HYDE

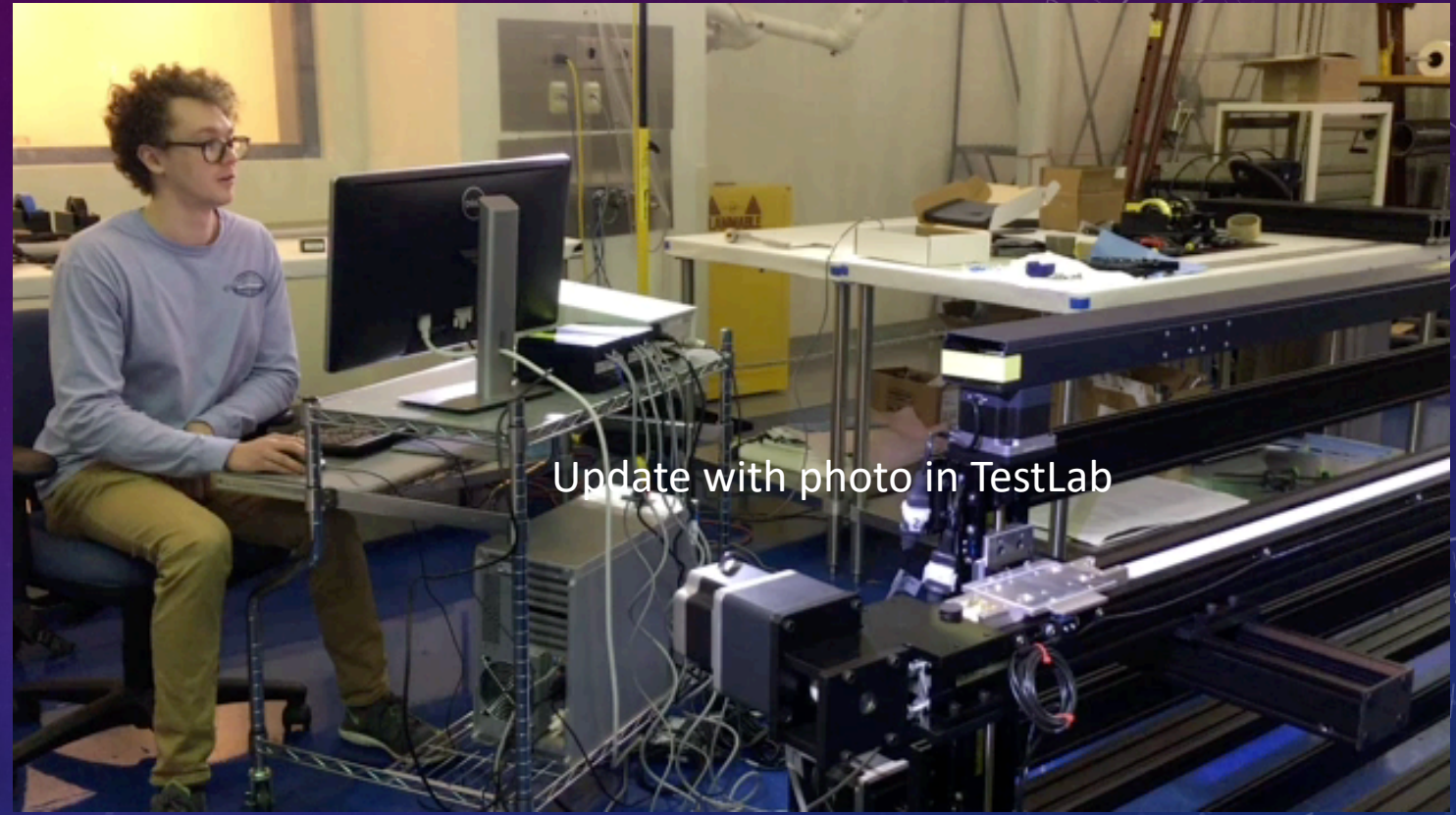
# MAGNET ASSEMBLY

- Magnet in TESTLAB
  - Power : 10% of max, limited by cooling
- Mapper constructed and tested with software controls

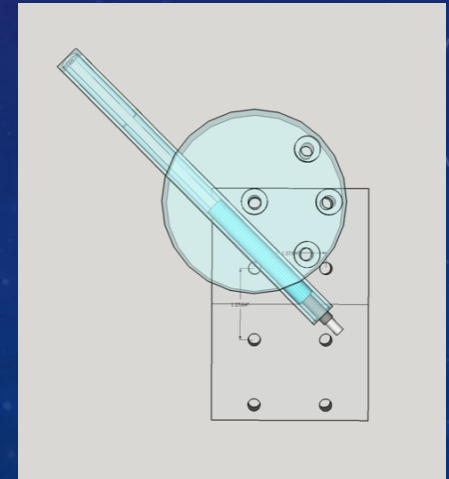
Photos here

# MAGNET TESTING: PHASE I. IN TESTLAB

- OSP in progress
- Current limited to 200 Amp
- Mapper program to measure three-axis field components in 1 cm intervals in 3-D
  - Main Gap + fringe region. 2 meters total in z
  - Beam gap, midplane +/- 0.5 cm vertical
- Complete in May 2020



Update with photo in TestLab



Hall-probe holder for full access to minimum gap region

# MAGNET TESTING: PHASE II. HALL C, ON FLOOR

- OSP in TBD
- Full Current
  - Needed for reliable measurement of fringe field in beam gap
- Mapper program to measure three-axis field components in 1 cm intervals in 3-D
  - Main Gap + fringe region. 2 meters total in z
  - Beam gap, midplane +/- 0.5 cm vertical