QUICK REFERENCE GUIDE ---- Venture

- The BIS program and APEXIII programs must be running
- In APEXIII Log in
  - Point to Instrument → Connect → localhost
  - Point to Sample → New
    - Enter your project name etc.
  - Wait for Panels (if not visible) to appear on the left
- Point to Setup
  - Point to Describe
  - Fill in the formula, crystal color/shape
- Point to Center Crystal
  - Point to Grab Video (top) and Cursor
  - Close Instrument Doors (Ins. will not move with open door)
  - On the right bottom point to the “center” button
    - Center Crystal
  - Point to Spin Phi 90
    - Center Crystal
  - Point to Spin Phi 180
    - Check centering adjust if needed
- On Panels point to Evaluate
  - Point to Determine Unit Cell
  - In the Automatic Panel (on the right) point to Run
    - Allow unit cell determination (~14mins)
  - If no unit cell is found find another crystal and repeat
Data Collection.

On the Panels (left) Point to Collect

Point to Calculate Strategy (Queen)

- Step 1. Check Cell and Resolution (on the right)
  - Change if necessary (resolution < 0.88)
- Step 2. Point to Determine Strategy (bottom left)
  - Point to OK
  - Wait for program to finish (~1-3mins)
  - Check Completeness and Multiplicity
    - > 90 complete and > 4 Multiplicity (monoclinic and above and >2 triclinic)
    - If not point to extend strategy button
- Step 3. Point to Select Scan Parameters (bottom)
  - Change step scan width to 1.0
  - Change step scan time (then click outside of step scan time box)
    - The data collection end time/date will be displayed.
    - If exceeds 9:30am (the next day) then reset scan time
- Data Collection : Point to Run Experiment
  - Point to Append Strategy (Lower left )
  - After the last run line, point to the first No Operation tab
    - Right Click Tab and pull down to Crystal Video
  - On the next No Operation tab
    - Right Click Tab and pull down to Position
  - Point to Validate
  - If validation OK then point to Execute

(over)