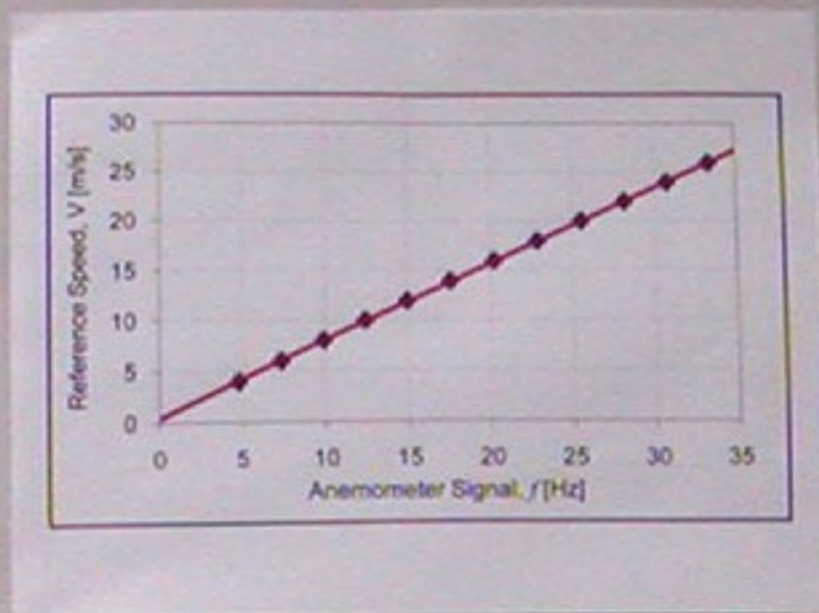
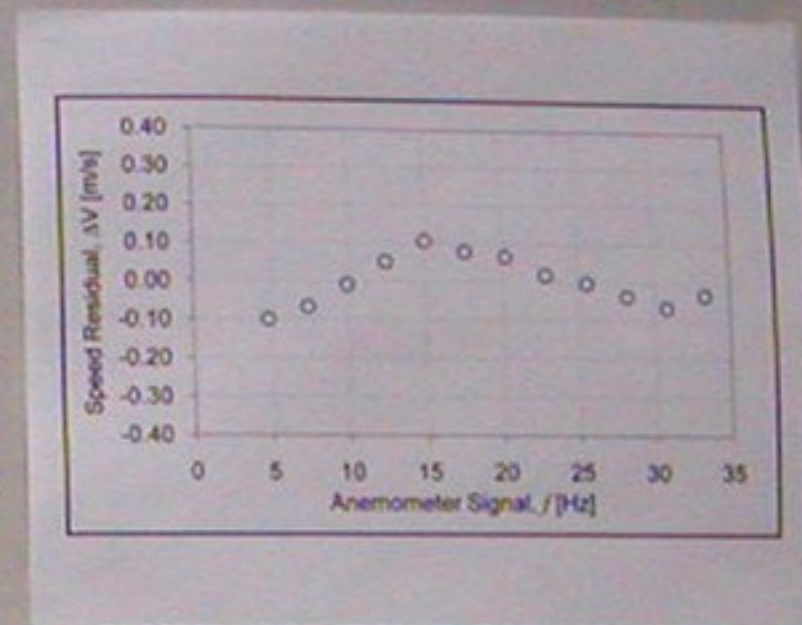


ANEMOMETER CALIBRATION METHODOLOGY

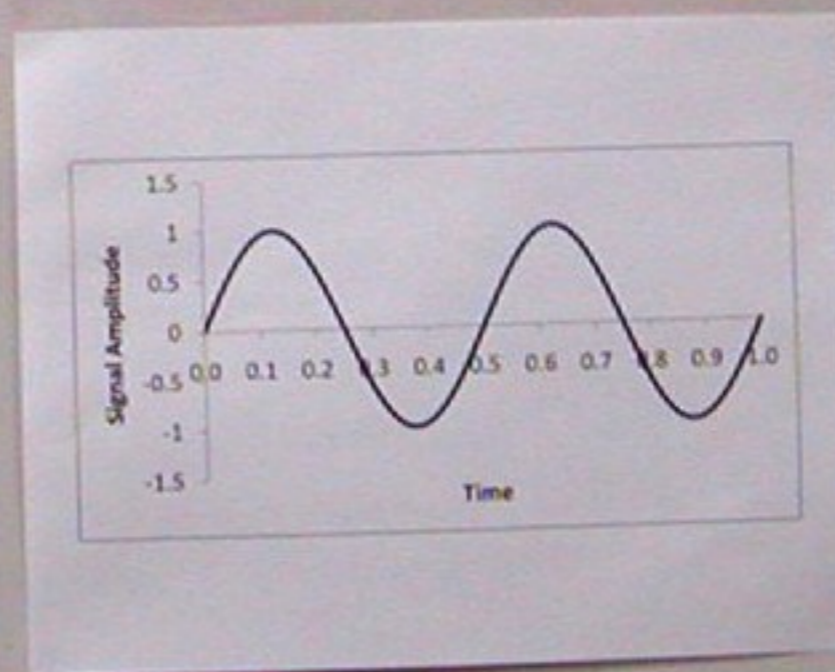
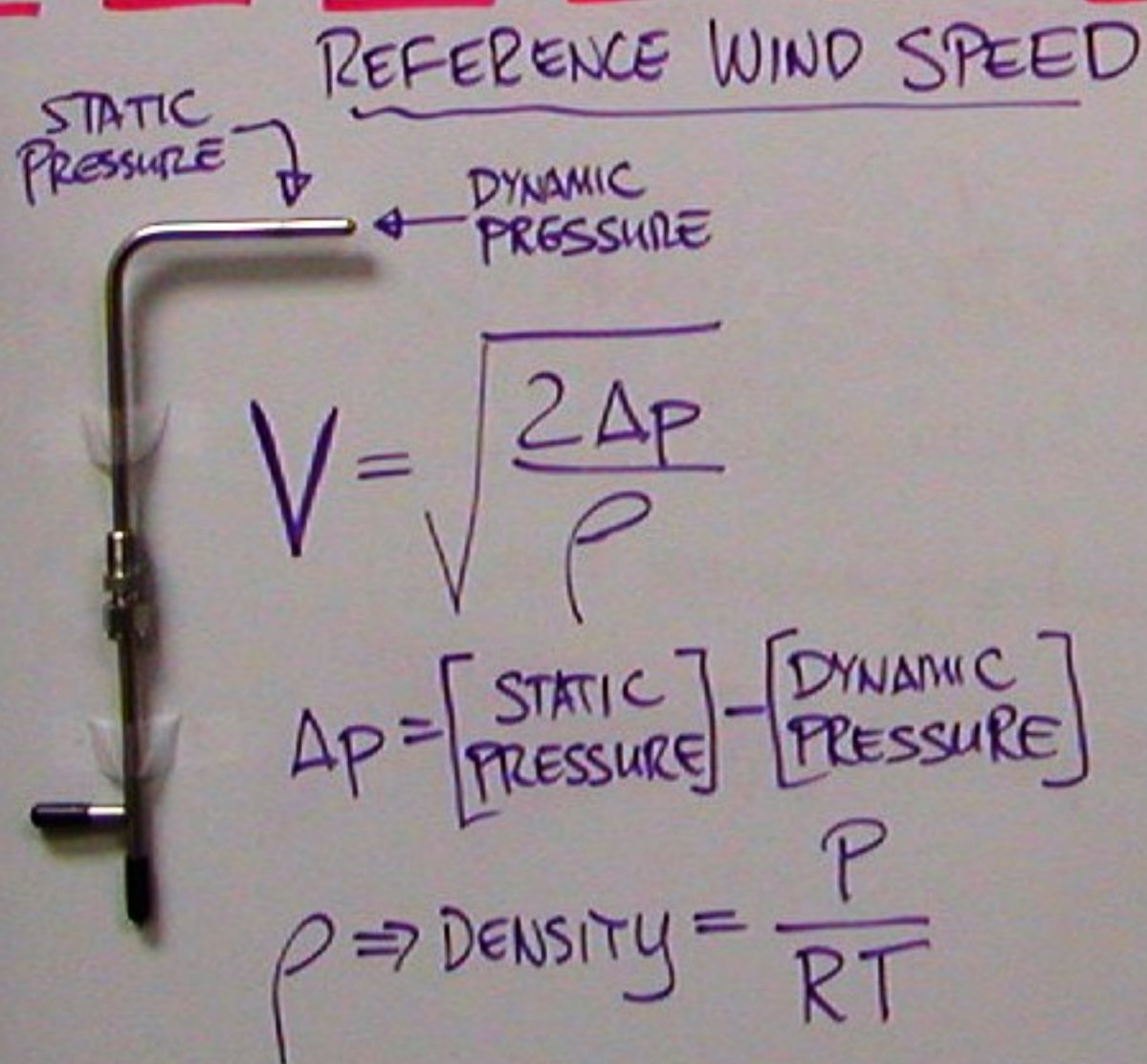


CALIBRATION EQUATION
 $V = \text{slope} * f + \text{offset}$
 RESIDUAL = [REFERENCE WIND SPEED] - [CALCULATED WIND SPEED]



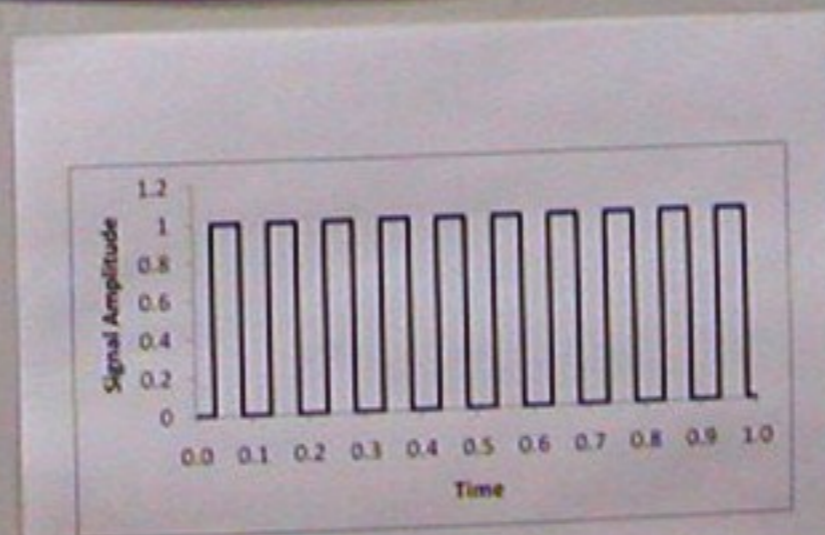
STANDARD ERROR (STE): MEASURE OF SCATTER OF ACTUAL WIND SPEEDS AROUND REGRESSION LINE
 FOR NRG #40 \approx 0.078 m/s

CONTROL: % DIFFERENCE OF CALIBRATION EQUATION TO PUBLISHED EQUATION
 NRG#40: $V = 0.7649f + 0.35$ } FROM CALIBRATIONS SINCE JAN 2009
 CONTROL AVG \approx -0.8%



ANEMOMETER SIGNAL MEASUREMENT

⇒ USE FFT (FAST FOURIER TRANSFORM) TO GET DOMINANT f



⇒ USE FFT OR PULSE COUNT TO GET f