HW #16: Autocorrelation

1. – 2D Image Processing & Analysis:

Using the best image you took of the pennies that I loaned to you:

- a) Calculate the radial distribution function
- b) Calculate the radial density function
- c) What we typically then do is to <u>average</u> what we'd get by picking different centroids as our starting point: that's then called a **correlation function**, g(r).
- d) How does the correlation function, g(r), relate to the structure factor, S(k)?