Students should arrive with the proper data sheets for this lab already printed out. The completed data sheets must be handed in before you leave the lab. I will average the results from all of the groups and post the “official” results on the course website later this week. Everyone will use the “official” results for completing the homework.

**Theoretical Maximum Specific Gravity of Asphalt Concrete:**

You have been given approximately 1200 g of asphalt concrete that has been heated to 220ºF. You will determine the theoretical maximum specific gravity of the uncompacted material using what is known as the Rice test (ASTM D2041).

Looking at the test procedure, you should realize that this test is a cross between the tests we did to determine the specific gravities of coarse aggregate and fine aggregate. As in the coarse aggregate test, we weigh the specimen in air and suspended in water to obtain the data needed to calculate specific gravity. As in the fine aggregate test, we place the specimen in a pycnometer, fill it with water, and apply vibration to help remove the air from the specimen. In this case, though, the air is more tightly trapped inside the agglomerations of asphalt-coated aggregate, so we also apply a vacuum to help remove the air.