Garnet, Quartz, Feldspathoids, Zeolites, and anything else…

Hand Samples:

1724 – Nepheline rock, notice the greasy luster.

1984 – Nepheline-Syenite, again notice the greasy luster.

38 – Nepheline basalt.

51 – Garnet schist.

462 – Leucite basalt.

1732 – Sodalite.

Box 1 – Various garnets.

32 – Leucite basalt.

95 – Eclogite – In the small piece with the polished face you can see a garnet.

1359 – Garnets.

Box 3 – Various zeolites. Notice the habit.

Unknown Hand Samples:

2013 – Identify the two minerals in this rock.

50 – Identify the red minerals.

6304 –Identify the phenocrysts.

2014 – Identify the blue mineral.

1717 – Identify the major mineral in the sample.

640 – Identify the phenocrysts.

Box 2 – Identify red mineral.

Thin Sections:

#1 – This section contains Leucite. Find it and describe it. Identify the other phenocryst and dominant mineral in the matrix.

#7 – The blue mineral is a variety of sodalite. The other mineral with extremely high birefringance is calcite. Identify the other mineral.

I16-01 – Identify the minerals in this section (make sure to look at #7 first).

CC5 – The dark, opaque grains are chromite. Identify the other mineral.

#8 – Identify the minerals in this section.

#6 – This section contains leucite and nepheline. Find a grain of nepheline on which you get a good interference figure and sketch it.

#9 – Identify the minerals in this section.

#4a – Anaclime – a zeolite. Notice the feathery appearance.

#5a – Natrolite – another zeolite.

MU26 – Garnet. They are scattered through out the section. They are high relief and isotropic.

MU45 – More garnet.