



PASADENA LAPIDARY SOCIETY

Field Trip to the Palos Verdes area
Saturday, July 12th 2014

Field Trip Leader: Chris Kyte 626-794-0519 ckyte60@att.net

Meet: 9:00am at Bluff Cove. Across from address 650 Paseo del Mar, Palos Verdes Estates

Please let me know if you are going to go on the field trip, weather changes. If I don't know your going on the field trip, I won't be able to contact you if the field trip is canceled. Don't wait until the day before.

What to Bring: **Equipment:** shovel, Small rock pick, spade or a collapsible shovel, gad or chisel, sledges, eye protection,, newspaper to wrap your rocks. Something to carry rocks in (bucket, knapsack or wheeled carrier for rocks). Bring lunch, water and snacks, sun screen, basic first aid and a wide-brim hat.

Clothing: sturdy shoes, drinking water, lunch sunscreen, large brim hat. At the beach shorts are good, but bring a sturdy pair of shoes or boots - it's very rocky and walking is required. At the old quarry we will surface collect in the brush, so wear long pants for brush if you opt to continue to this location.

First Collecting Area: Bluff Cove 9am - 11:30am

Glaucophane, Barite and Agate. The beach at Bluff Cove is accessed by a wide dirt path, about 300 yards long, which descends about 100 vertical feet to the water's edge. It is a quick walk down to the rocky beach and the walk back up carrying rocks should be done slowly, with frequent rests and with 16 oz of water. Once to the bottom of the path we will be looking for collectible minerals amongst the beach rocks.

Second Collecting Area: Livingstone Quarry for Dog-Tooth Dolomite and Selenite. 12:00 - 2:30pm.

We will go to 2 collecting sites, first to the selenite, walking along on paths about 100 yards from where we parked. For the best selenite you will need to climb about 100 feet up a hill. After about an hour we will then walk on paths about another 100 yards to the dog-tooth dolomite. There is surface material or you can use rock picks and chisels to dig.

The Minerals

Glaucophane: $\text{Na}_2\text{Mg}_3\text{Al}_2(\text{Si}_8\text{O}_{22})(\text{OH})_2$ or Hydrated Sodium Magnesium Aluminum Silicate We will find Electric colored material in the sands. It is a semi translucent stone in multicolored green hues. Black and wine red can be found. Recognizable by the semi translucent, variegated pattern. Great for tumbling, cabbing, spheres, etc.

Barite: BaSO_4 or Barium Sulfide. This is a deep golden honey colored, translucent, cockscomb mineral. Some sources are the beach cliffs as crack filled seams, or eroded down to the shoreline as fist-size chunks. These are great Display pieces. Perfect addition to any mineral collection.

Selenite: $\text{CaSO}_4 \cdot 2(\text{H}_2\text{O})$ or Hydrated Calcium Sulfate. From the Greek $\sigma\epsilon\lambda\eta\upsilon\eta$, for "moon," in allusion to the moon-like white reflections of the mineral or to the quality of the light transmitted by semi-pellucid gypsum slabs of cleavages used as windows.

Dog-Tooth Dolomite: $\text{CaMg}(\text{CO}_3)_2$ or Calcium Magnesium Carbonate. Usually found as druzes or clusters of small rhombohedral crystals with a somewhat "saddle"-like shape, white to tan to pink in color.