Hydromica Schist or Slate. — Metamorphic. Thin schistose, consisting either chiefly of hydrous mica, or of this mica with more or less quartz; having the surface nearly smooth; feeling greasy to the fingers; pearly to faintly glistening in luster; whitish, grayish, pale greenish in color, and also of darker shades. This rock used to be called talcose slate, but, as first shown by C. Dewey, it contains no tale. It includes parophite schist, damourite slate, and sericite slate (glanz-schiefer, sericit-schiefer, and part of the glimmer-schiefer of the Germans).

Varieties. — a. Ordinary; more or less silvery in luster. b. Chloritic; contains chlorite, or is mixed with chlorite slate, and has therefore spots of olive-green color; graduates into chlorite slate. c. Garnetiferous. d. Pyritiferous; contains pyrite in disseminated grains or crystals. e. Magnetitic; contains disseminated magnetite. f. Quartzytic; consists largely of quartzyte, or is a quartzyte rendered schistose and partly pearly by the presence of a hydrous mica. Includes the argillyte or clay-slate which has the composition nearly of a hydrous mica, like that of the White Mountain Notch, where much of it is and alusitic.

AGALMATOLYTE (Gieseckite, Pinite). — Compact; cut with a knife; composition that of the hydrous mica, damourite. Derived mostly from the alteration of nephelite. — From the Archæan of Lewis County, N.Y. (Dysintrybyte), China, etc.

Paragonite Schist. — Metamorphic. Consists largely of the hydrous soda mica called paragonite; but in other characters resembles hydromica slate.

Felsyte (Euryte, Porphyry, Petrosilex). — Eruptive and metamorphic. Compact orthoclase with often some quartz intimately mixed, flint-like in fracture. Opaque. Colors grayish white to red and brownish red. G = 2.56-2.7.

Varieties. — a. Non-porphyritic; of various colors. b. Black; rare. c. Porphyritic Felsyte, or Porphyry, Orthophyric; containing the feldspar in small crystals distributed through the compact base; color red, and of other shades. d. Quartzophyric; containing quartz in grains; often called Quartz-porphyry. e. Quartzless. f. Spherophyric, the Pyromeride of Corsica.

PORCELANYTE OR PORCELAIN JASPER. — Metamorphic. Baked clay, having the fracture of flint, and a gray to red color: it is somewhat fusible before the blowpipe, and thus differs from jasper. Formed by the baking of clay-beds, when they consist largely of feldspar. Such clay-beds are sometimes baked to a distance of thirty or forty rods from a trap dike, and over large surfaces, by burning coal-beds.

MICA-TRACHYTE. — Eruptive. Consisting of orthoclase and black mica, with some orthoclase augite, chrysolite, and glass. Dark grayish green. Mount Catini.

Trachyte (Sanidin-trachyte). — Eruptive. Ash-gray, brownish, bluish, rarely reddish. G = 2.6-2.7. Consists mainly of orthoclase, often with disseminated crystals of the glassy tabular variety called sanidin. Named from the Greek for rough, in allusion to the rough surface of fracture. Differs from felsyte in containing some glass, and a rougher surface. Graduates into the following.

RHYOLYTE, QUARTZ-TRACHYTE. — Eruptive. Like the preceding in colors, but containing quartz, and sometimes passing into a coarsely crystallized variety called *Nevadyte* (from Nevada). Common in the Rocky Mountain region and west of it. *Pearlyte* and *Lithoidyte* are more or less glassy varieties — between glass and stone; and pitchstone is another similar variety, pitch-like in luster. These graduate into the following.

Obsidian (Volcanic glass). — Eruptive. A true volcanic glass, but more or less microlitic. Colors grayish black, gray, purplish to red, brown. Sometimes orthophyric; often contains spherulites, which are 70-75 per cent silica. Pumice is a scoriaceous variety with linear cells. Constitutes a high bluff in the northwest part of the Yellowstone Park, north of Beaver Lake, which has a top of pumice, and also a large area east of the bluff; cavities in Obsidian bluff often lined with crystals of sanidin, tridymite, quartz, and sometimes of fayalite.