NEW MINERAL NAMES

Abukumalite


**NAME:** From the Abukuma Range, where the mineral was first discovered.

**CHEMICAL PROPERTIES:** A phosphate-silicate of calcium and yttrium; Ca₇Y(Si,P)O₁₈. Analysis: MgO 0.22; CaO 13.53; MnO 1.13; Fe₂O₃ 2.10; Al₂O₃ 1.05; Cerium earths 6.45; Yttrium earths 45.98; ThO₂ 0.90; SiO₂ 20.84; P₂O₅ 5.84; H₂O(−) 0.16; H₂O(+) 0.57; CO₃ 0.08; F 0.45; Total 99.30. Soluble in cold dilute acids.

**CRYSTALLOGRAPHICAL PROPERTIES:** Probably hexagonal. c=0.7 (from x-ray data).


**OCURRENCE:** Found in massive forms in feldspar, intimately associated with yttrialite, thorogummite, tengerite and allanite in pegmatite dikes at Iisaka Village, Fukushima Prefecture, Japan.

**DISCUSSION:** Abukumalite appears to be related to britholite, being the yttrium member, and britholite the cerium member of this series.

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Russellite


**NAME:** In honor of Mr. Arthur Russell, in recognition of his contributions to British mineralogy.

**CHEMICAL PROPERTIES:** An oxide of bismuth and tungsten, near Bi₂O₃·WO₃. Analyses: Bi₂O₃ 68.26, 62.3; WO₃ 25.50, 32.1; As₂O₃ 0.26, 0.29; Insol. 1.60, 1.6; Ign. loss 4.86, n.d.; Total 100.48; Oxygen 13.13, 13.9.

**CRYSTALLOGRAPHICAL PROPERTIES:** Tetragonal, space group D₁₄h or possibly D₁₆h. a=5.42 Å, c=11.3 Å. Natural crystals not found.

**PHYSICAL AND OPTICAL PROPERTIES:** Color pale yellow. Fine grained, compact. H=3½. G=7.35±0.2.

**OCURRENCE:** Found as fragments in the jig concentrates of the Castle-an-Dinas wolfram mine, St. Columb Major, Cornwall, intimately associated with native bismuth, wolframite, limonite, quartz, topaz, lithia mica and tourmaline.

**DISCUSSION:** A comparison of russellite with artificial isomorphous Bi₂O₃·WO₃ indicates that this mineral is a similar isomorphous mixture of bismuth and tungsten oxides.

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Corrections

In the October 1938 issue, page 612, line 21 for “Calgoorie” read “Londonderry”. (Dr. Edward S. Simpson has pointed out that there is no such place as “Calgoorie” in western Australia. Page 615 line 4 from Bottom, for “106°C" read "160°C."