

## NEW MINERAL NAMES

### Kotoite

TAKEO WATANABE: Kotoite, ein neues gesteinsbildendes Magnesiumborat. *Mineral. Petro. Mitt.*, **50**, 411-643 (1939).

NAME: In honor of the late Prof. Dr. Bundjirô Kotô, who first described the ore deposits of Hol Kol.

CHEMICAL PROPERTIES: A magnesium borate:  $Mg_3B_2O_6$ . Analysis:  $SiO_2$  1.32;  $Al_2O_3$  0.26;  $FeO$  0.61;  $Fe_2O_3$  0.20;  $CaO$  0.18;  $MgO$  62.78;  $B_2O_3$  35.20;  $H_2O+110^\circ$  0.05; sum 100.60. Soluble in warm concentrated hydrochloric acid; scarcely attacked by cold dilute acid; the solution reacts for Fe, Mg and B. B.B. infusible.

CRYSTALLOGRAPHICAL PROPERTIES: Crystals not observed. Orthorhombic.

PHYSICAL AND OPTICAL PROPERTIES: Colorless.  $H=6\frac{1}{2}$ .  $G=3.06-3.11$ . Cleavage fairly good (110), simple gliding along (101). Biaxial (+).  $2V=21 \pm 1$ .  $r > v$ , plane of the optic axes (010).  $Z=c$ .  $\alpha=1.652$ ,  $\beta=1.653$ ,  $\gamma=1.673$ .

OCCURRENCE: Found in metamorphosed dolomitized marble, associated with fosterite, norbergite, spinel, ludwigite, szaibelyite, fluoborite, etc., at Hol Kol gold mine, Suan Korea and Rezbanya, Siebenbürgen.

W. F. FOSHAG

### Verdelite

P. QUENSEL AND O. GABRIELSON: Minerals of the Varuträsk Pegmatite. XIV. The Tourmaline Group. *Geol. Fören. Förh. Stockholm*, **61**, 67 (1939).

The varietal name *verdelite* is proposed for the green lithium tourmaline to distinguish it from achroite (colorless), rubellite (red), indicolite (blue).

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### Devadite

L. L. FERMOR: Notes on Vredenburgite (with Devadite) and on Sitaparite. *Proc. Nat. Inst. Sci., India*, **4**, No. 3, 253-288 (1938).

Fermor reviews the previous work on vredenburgite which showed it to be an oriented intergrowth of jacobsonite and hausmanite that has resulted from the breakdown of a pre-existing mineral. For this presumed earlier mineral, near  $3Mn_3O_4$ ,  $2Fe_2O_3$ , in composition, Fermor retains the name vredenburgite, and for a similar hypothetical mineral, richer in iron, from which has presumably been derived the "vredenburgite" of Devada and Kodur, the name *devadite* is proposed.

W. F. F.