$K(P_2O_5) = 0.170$ gives a density of 3.26 for the Huddersfield apatite, and it gives a better agreement between the measured and calculated densities in Deer, Howie & Zussman. It is therefore suggested that $K(P_2O_5) = 0.170$ be used when applying the rule of Gladstone and Dale. Young & Munson (1966) also suggested that the *K*-value for P_2O_5 in Larsen & Berman (1934) is too high.

Initially the work on the Huddersfield apatite was done to establish a phosphate standard for our microprobe laboratory. As a result about 15 grams of the analyzed crystal are available for exchange with interested laboratories for other standards.

References

Boyd, F.R., Finger, L.W. & Chayes, F. (1969) : Computer reduction electron-probe data. *Carnegie Inst. Wash. Yearbook* **67,** 210-215.

Deer, W.A., Howie, R.A. & Zussman, J. (1962) : *Rock-Forming Minerals.* **5,** John Wiley & Sons, New York.

Hildebrand, W.F., Lundell, G.E.F., Bright, M.S. & Hoffman, J.I. (1953) : *Applied Inorganic Analysis.* John Wiley & Sons, New York.

Jaffe, H.W. (1956) : Application of the rule of Gladstone and Dale to minerals. *Amer. Mineral.* **41,** 757-777.

Kretz, R. (1957) : Litchfield-Huddersfield area, Pontiac electoral district. *Quebec Dept. Mines PR.* **338.**

Larsen, E.S., & Berman, H. (1934) : The microscopic determination of the nonopaque minerals. *U.S. Geol. Surv. Bull.* **848,** 30-32.

McClellan, G.H. & Lehr, J.R. (1969) : Crystal-chemical investigation of natural apatite. *Amer. Mineral.* **54,** 1374-1391.

Sabina, A. (1964) : Rocks and mineral collecting in Canada : Ontario and Quebec. *Geol. Survey Can., Misc. Rpt* **8.**

Shaw, D.M. (1958) : Radioactive mineral occurrences of the Province of Quebec, *Que. Dept. Mines G. R.* **80.**

Stewart, D.B., Kruger, G.J., Ammon, H.L., Dickinson, C. & Hall, S.R. (1972) : The X-ray system. *Tech. Rpt TR-***192,** Computer Science Center, Univ. Maryland, College Park, Maryland.

Young, E.J. & Munson, E.L. (1966) : Fluor-chlor-oxy-apatite and sphene from Crystal Lode pegmatite, near Eagle, Colorado. *Amer. Mineral.* **51,** 1476-1493.

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NOTICES

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The desire of the Mineralogical Association of Canada is to increase the number of petrological and geochemical papers published in the journal. An issue devoted to the St. John's, Newfoundland, MAC symposium on "Low-Grade Metamorphism" is planned.