

that following this suggestion, someone will find an opportunity to test a number of oriented sections of the better radio detectors; in order to demonstrate the truth or falsity of the ideas herein set forth.

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NOTES ON PYRITE AND CELESTITE FROM  
ROCHESTER, NEW YORK

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A short article contributed some little time ago to this journal by the present writer<sup>1</sup> is supplemented by the following brief notes.

During 1925, in the town of Brighton, near the eastern boundary of the City of Rochester, pyrite crystals in the form of the simple dodecahedron, with an occasional tiny octahedral modification, have been discovered. They are oxidized to a nearly black color, but are fresh within. The largest of them are not more than a millimeter in diameter. Their edges are slightly raised, as in some sphalerite crystals, and they are perched upon crystals of yellow dolomite associated with scalenohedrons of calcite and tiny marcasite crystals. The occurrence is in loose boulders of the Lockport dolomite, or the Guelph member thereof.

Celestite crystals from the town of Brighton,  $3 \times 5$  centimeters in size, and white in color, consist of a simple combination of the unit prism ( $m$ ), and the pinacoid ( $a$ ). Small crystals of this type show pyramidal terminations, too deeply etched for measurement. This celestite is associated with yellow dolomite, and occasionally with fluorite which is colorless or light blue. A celestite crystal from the barge canal in the vicinity of the Scottsville road at the extreme western edge of the city, is yellow in color, and associated with a very deep purple fluorite crystal and dolomite. This celestite crystal is about 2.5 centimeters in diameter and is strongly tabular on the base, with a shape like many wulfenite crystals. Its forms are as follows:  $c(001)$ ,  $m(110)$ ,  $b(010)$ ,  $d(101)$ ,  $o(011)$ ,  $\vartheta(124)$ . Its yellow color and unusual habit are tentatively attributed by the present author to the presence of petroleum residues, which are found at times in the cavities in dolomite and in crystals of the various minerals themselves. Both of these occurrences of celestite are probably in the Guelph member of the Lockport dolomite.