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*Eighth Meeting, June 8th, 1894.*

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Dr C. G. KNOTT, President, in the Chair.

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On the Highest Wave of Permanent Type.

By JOHN M'COWAN, D.Sc.

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On a Problem in Tangency.

By G. E. CRAWFORD, M.A.

FIGURE 17.

Let AOB, DOE be any two intersecting chords of a circle. Required to inscribe a circle in one of the compartments, as BOE.

Draw OF bisecting the angle BOE and let it cut the circle in F. Draw FM perpendicular to AB.

Join C' (the centre of the circle) to O and produce to cut the circle in G. [Draw GH in any direction equal to FM, and join C'H. Draw OK parallel to GH cutting C'H in K.] Cut off  $OL=LQ=OK$ . Join LF and with Q as centre and radius FM or GH describe a circle cutting LF in S. Draw QSR and draw a parallel to it through C' cutting OF in F' and the circle in P'. Then F' shall be the centre of the required circle.