

lasting esteem of his students and his colleagues, and by his devotion to his science a lasting name among his contemporaries.

The Observatory was formally dedicated May 15, 1901. The dedicatory address was given by Astronomer W. J. Hussey, astronomer in the Lick Observatory. He spoke of "Astronomy and Modern Life." President Swain spoke of "Personal Recollections of Dr. Kirkwood."

DAYLIGHT METEORS.

JOHN A. MILLER.

THE CENTER OF POPULATION OF THE UNITED STATES.

JOHN A. MILLER.

A THEOREM IN GEOMETRY.

JOHN C. GREGG.

DEF is the triangle formed by the tangents at the vertices of a triangle ABC inscribed in the circle O. Draw EOP meeting BC in P and join PF. Show that EPF is a right angle.

DEMONSTRATION.

Draw FG perpendicular to CA produced, and join OF. Denote the angles of ABC by A, B, C, and the sides by a, b, c. Then

$$\begin{aligned} FG &= AF \sin B \\ &= \frac{c}{2} \sec C \sin B \\ &= \frac{b}{2} \sin C \sec C \\ &= \frac{b}{2} \tan C \\ &= HP, \text{ which is perpendicular to CG.} \end{aligned}$$

Hence HPPG is a rectangle and EPF is a right angle.

