

Please read and send in as full a
discussion as possible at earliest date.

Canadian Society of Civil Engineers.

INCORPORATED 1887.

ADVANCE PROOF—(*Subject to revision.*)

N.B.—This Society, as a body, does not hold itself responsible for
the statements and opinions advanced in any of its publications.

THE GRADIENT-TELEMETER LEVEL AND ITS ADVANTAGES ON PRELIMINARY WORK.

(By R. W. Macintyre, A.M. Can. Soc. C.E.,
March, 1903.)

Nowadays, when events are making such rapid history in the engineering world, the most deeply-felt want is for methods which will yield the necessary information at the minimum cost of time and expense. With this object in view, instruments of the Gradient-Telemeter type have been invented and placed before professional men for trial from time to time.

The present article merely deals with the particular class of instrument mentioned above, as in the writer's opinion it is in many respects unique and worthy of a separate niche in the temple of instrumental fame.

Now that transcontinental railways, colossal irrigation systems and other engineering enterprises are actually taking definite and practical shape, the question of improving upon the old-time methods of gathering preliminary details (especially in unexplored territory) becomes a momentous one, which is to some extent satisfactorily solved by the Telemeter. The instrument consists of an