

the concomitance of the progress of science and practically important inventions.

DANGER OF UTILITARIAN CRITERIA.—The list of practical benefits which Science has conferred on man might be greatly lengthened, but what we have given is perhaps sufficiently representative, and there is much risk of over-emphasizing the utilitarian criteria. The too intensely practical man has got so accustomed to the fruits of Science that he is apt to forget that these cannot be forthcoming if the roots die. Therefore to the critic who growls over the time spent on studying sea-weeds, when "what we want is more wheat," over embryological research instead of fish-hatching, over the theoretical puzzles of geology instead of the search for more coal and iron, we must answer, first, that man does not live by bread alone; second, that he must be patient if his desired practical results are to be sure; third, that Science is a unity, and the theoretical foundation is essential if there is to be progressive practical application; and, fourth, that, as a matter of fact, it has often been from the most unpromising theoretical investigations that great practical discoveries have come. Even for the sake of practice, Science should never submit to the over-practical man's canon which makes immediate utility a stringent criterion of worthiness.

To-day, as much as ever, when the enthusi-