DR. MACLAURIN'S ADDRESS

(Continued from page 2.) in mind that science and culture must be combined, i. e., the two must go hand towards his office rather than in some direction in which they see opportunity tical life is clearly not dependent in hand, science being studiel and taught in such a way as to make for that broad and liberal outlook on the world that is may be that the shortest is not the of the best things even for the so-called the mark of a really cultured man. I hope that it is not necessary to stop to argue with anyone who thinks that he is unfit for business for half the searches. Galileo made telescopes, Newscience is quite incompetent to the task | morning. Especially when he is new to -for such a survival of medievalism must surely be very rare today. I take it that the root of culture (in any worthy sense of that term) is the possession of an ideal broad enough to form highly important to have men that can fulness of its graduates (remembering class room, they received a wholesome the basis for a same criticism of life. do this well, and so at the Institute and that only a small proportion of them and a manly training from the other What study is most conducive to this other similar places we must have men have yet passed middle life), we find influences that were brought to bear end is a question on which there is sure to be much difference of opinion, but I keep the highest ideals constantly be share of pure scientific work of the first Cardinal of the Catholic Church (that suspect that the subject-matter of the fore the student. They must be men rank in Astronomy, in Chemistry, in Bistudy is far from the most important who can command the respect not only ology, and in other departments of learnelement in the problem. We have only to of the students but of the whole com- ing. I hope that it will always be so, if he had to choose between sending a think of the unpromising materials from munity in which they live-men such but to make this possible a continuance young man to a University which which our forefathers often derived such real culture to be confirmed in this suspicion, and to lean towards the opinion that is the how rather than the what men of science, nor in the esteem in of study that makes for culture. If this which they are held locally, nor in the than studies to be considered. Above if he had to choose between such a Unibe true, then it is vastly important, for it enables us to solve one of the most difficult questions that presents itself in education. We cannot indulge in highflown schemes of general culture, for on our staff for the reasons that I have and not checked by our training. Out- had to determine which of the two here, as everywhere else, the avenue to indicated and because of the incalcula- side the class room we can do this best would be the more successful in trainsuccess is limitation. The practical ble value of breadth of view and free- by encouraging a rational system of ing, moulding, enlarging the mind, question is how to limit? The plausible and the popular solution is that a man should be guided by his aptitudes, and by what those aptitudes should deter- is true that the first and obvious duty were considered the two essentials in men whose names would descend with mine—his special calling in life. Here, I beleve that, for once, the plausible and men for certain professions, and partic- and I can well believe that many more besitation in giving the preference to the popular is entirely right. It seems ularly for those professions in which elaborate modern systems of education that University which simply did nothto me obvious that a man should try to keep closely to what will be most useful to him in life, the only qualification (and of course it is an important one) being that the adjective "useful" must not be construed in any narrow sense. It is owing to this qualification that it appears absurd to allow almost complete freedom of choice to a mere youth, whoe outlook on life is not wide enough to suggest the wisest choice. I see no reason, however, why a man should spend his time in so-called "useless" studies for the sake of mental discipline and culture, if he can

other direction. There may, of course, the city will he profit enormously by the companionship of an accomplished man Institutes in Paris and Berlin, who neither in their international reputation as of learning.

gain these excellent things in studies pose that the Institute should serve. It Here, however, we need opportunities that are more "useful" in his calling, should train men to extend the bounds not only for athletics properly of extendng them. I believe that assobe several roads to his office, and it ciation with "practical" studies is one best, for it may bring him there out unpractical man who intends to deal of breath or otherwise so disabled that mainly with the most abstract reattractions of the way. It is of course Institute and take account of the youthas are to be found at the best Technical of front rank men on our staff is a ne- made no provision for social life cessity of our being.

emoluments of their office are one whit all we must preserve in our students versity and one that had no professor behind those in the more ancient seats the freshness and vigor of youth and or examinations at all, but merely see to it with all care that their nat- brought a number of young men to-We need such broad men as professors | ural powers of initiative are improved | gether for three or four years-if he dom from prejudice to the leader in en- athletics and a rational social life. In which would send out men the better gineering and industrial pursuits. But | Xenophon we were told that "to ride | fitted for their secular duties, which there are other reasons than these. It horseback and to speak the truth" would produce the better public men, of such an Institute as this is to train the education of a Persian gentleman, bonor to posterity, he would have no science plays a leading part. It should, are much less liberal. Fortunately it ing. Well, clearly we cannot make however, do more than this; it should is now becoming generally recognized architects and engineers by doing nothtake its share in the great work of get- that a sound body is the basis of a ing; work and hard work too. must alting the nation imbued with the scien- sound mind and of sound morals, and ways be the leading feature of a techtific spirit. For this purpose the schools that men play the game of life better nical institute; but I see not the slightof applied science are strategic points for what they learn in manly contests est reason why we should not have all of the highest value. If you can show manfully conducted. It is of course de- the advantages of a rational social life people the "practical" value of science plorable, if true, that the cult of mere amongst the students and work as (in the narrow sense of that ill-used ad- utbleticism seems to be eating like a hard as ever. Work is perhaps the one jective), if you can demonstrate that it canker into the college life of this coun- thing needful to check these abuses of makes for healthier and fuller life, for try just as of some older ones, but the social side of college life, which no greater prosperity and greater happi- there is comparatively little danger of one who speaks with any real knowlness, then you will have some chance of there i comparatively little danger of edge can fail to recognize as all too directing their attention to its other as this abuse of a thing so intrinsically common. In social matters tradition peets. And this suggests another pur- good in an Institute of Technology, is all powerful, and we are fortunate

no more than I see why a business man of knowledge, not only in the applica- ductcu, but for a healthy social life should not take his exercise in walking tions of science to industry, but in any amongst the students. Success in pracwholly, or even mainly on knowledgeunless you use the term so widely as to include the knowledge of men and of the world. It is common experience here as in the older world that the men who make the greatest mark are often ton learned practical mechanics, Leibnitz those that were quite unhonored in the invented machines, Kelvin laid cables. schools. At Oxford or at Cambridge And so it should cause no surprise that they pursued "a little learning and who can direct his attention to the real when we bear in mind the size of this probably much more boating," but, whatever their shortcomings in the of high rank and wide outlook who can that its alumni have contributed a full in their social life. A great and learned church which has been so rich in men with profound human insight) said that amongst its students, and gave its degrees to any person who passed an ex-But of coure there are other things amination in a wide range of subjects,









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Correspondence should be addressed to Prof. A. L. MERRILL, Secretary of the Faculty.

PUBLICATIONS

- The Annual Catalogue (issued in December), the Report of the President and the Treasurer (issued in January), the Register of Former Students (issued in March), and any of the following descriptive circulars will be mailed free on application: The Massachusetts Institute of Technology: An illustrated pamphlet describing the labora-tories of the Institute
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- Circulars of the Departments of Mechanical Engineering; Mining Engineering; Physics and Electro-Chemistry; Architecture; Chemistry and Chemical Engineering; Biology; Naval Architecture.
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