

Department kept pace with the advances of industrial and theoretical metallurgy during the past ten or twenty years? Having in view the cramped accommodation, the limited finances and the small personnel of the department, I believe that we have made satisfactory progress and kept pace reasonably well with outside advances.

Mr. Sproule and I keep informed of changes of metallurgical practice by means of the technical press, by our connection with technical and scientific societies (I belong to twelve of these) and by periodical visits to smelters and other metallurgical works. We also have a very close contact with practical metallurgy through problems that are referred to us from time to time. It follows from this that we can keep our lectures and other instruction reasonably up to date. Although it is essential that a student should have some knowledge of metallurgical practice, it is even more important that he should be well grounded in the theoretical studies that enable him to understand the principles on which practice is based, to ascertain the degree of efficiency of any operation and to judge correctly in what way the present practice can be improved. I have therefore endeavoured to advance the teaching of fundamental studies such as thermo-chemistry, physical chemistry and electro-chemistry and their application to the problems of metallurgy.

In my report to the Faculty of Graduate Studies and Research I point out the importance of metallurgical research and its suitability as a subject for graduate study. In the