

Engineering Survey Key

So direct is bearing of articles prepared by late Dean H.M. MacKay that they are given intact, following are topics discussed:-

- A. Results international survey of engineering education by S.P.E.E.
- B. General objective and curriculum of engineering courses; preliminary training
- C. Provision of new or increased laboratory facilities in hydraulics, mechanical engineering, electrical engineering, municipal engineering.
- D. Changes in curriculum including: abolition of shopwork; requirements regarding engineering experience before graduation; new courses in communications, preparation of reports, public speaking.
- E. Special emphasis laid on need new building for Mining, Metallurgy and Geology, and on development of graduate work, requiring both staff and scholarships of adequate amount.

And, compiled from a questionnaire then sent out (D927-28) this is opinion of graduates on such questions as:-

- A. Extent to which college training provided a proper scientific and technical training for future work.
- B. Quality or sufficiency of relationship between subjects studied in college and the problems and procedure of engineering practice.
- C. Objectives of an engineering course; subjects of greatest professional value; desirable subjects for study not included in curriculum.
- D. Relative values of academic attainment, personal qualities such as initiative, leadership, etc; and value of college training in developing qualities looked for in engineers in practice.

It was found that our general policy and aims were in harmony with recommendations resulting from the International Survey.

Re Mathematics and Cultural Subjects.

The whole question of matriculation is under review now by the Matriculation Board. The pre-engineering year course should be made more suitable to engineering needs by being made a part of their own curriculum, but for present there can be no change.

Specialized courses

Such as Industrial, Ceramic, Marine, Radio, Textile, etc. engineering. The best opinion is opposed to over specialisation. Legitimate needs of specialization can usually be made by providing options in the fourth year courses. This Faculty holds tenaciously to the view that the curriculum should be the same in the first 2 years of all engineering courses. Some 25 years ago a dept. of railroad engineering was established here. It was found that graduates in civil or mechanical engineering were well qualified to go into rr. work. Experience proved t