

THE MACHINERY EDITION OF THE CANADIAN MANUFACTURER

Established in 1880.

Published on Fridays.

The Canadian Manufacturer Publishing Co., Limited

Office of Publication: 408 McKinnon Building, Toronto

D. O. McKINNON—Managing Director**J. C. ARMER**—Editor

Montreal Office—204 St. James Street,

ARTHUR B. FARMER—Representative

London, Eng., Office: 16 Devonshire Square, E.C.

WM. TUCKER & CO., Representatives**SUBSCRIPTIONS:**

Canada \$1.00 United States \$1.50 per year. All other Countries in Postal Union six shillings sterling, including postage.

ADVERTISING RATES:

Made known on application to 408 McKinnon Bldg., Toronto

THERE SHOULD BE NO FALSE ECONOMY.

A reader writes us concerning the articles which have been appearing in *THE CANADIAN MANUFACTURER* on technical and industrial education. He is the manager of a large manufacturing concern. The contents of his letter shows him to be deeply interested in the question. He suggests lines along which we might give information which would be appreciated. He also calls attention to the fact that certain sections of the Canadian Manufacturers' Association are opposed to the sending of a Commission abroad at the great cost of \$25,000. It is believed that there is available all the information necessary as to the different systems of education which are in existence in the United States and on the Continent; and that this information can be obtained in Canada without any cost to the Association. They are in favor, however, of a Commission going round to the different industrial centres in Canada to ascertain which of the several systems of industrial education would be most suited to the requirements.

In our opinion this question of industrial education is the biggest problem facing the manufacturing industry in Canada to-day. Upon the efficiency of the way in which this problem is handled will depend in no small measure the future industrial expansion of Canada. Therefore, the problem must be handled thoroughly. There should be no half hearted or inefficient method adopted. If it costs \$25,000 to do the thing efficiently, by all means let the Association spend that amount, if it can be raised. However, this fact should not be lost sight of, that a very great amount of money will be required for establishing systems of education after they have been adapted to the requirements, and needless expense should not be indulged in.

This issue contains a complete description of the system

of co-operative engineering education in operation at the University of Cincinnati, as well the opinions of the University authorities and manufacturers interested as to the success of the system are quoted at length. We are advocating that a somewhat similar system be tried out in Toronto and Montreal; but we do not advocate that this be done without a thorough investigation by a committee or commission appointed jointly by the Universities concerned and the Canadian Manufacturers' Association. This investigation would probably include a visit to Cincinnati.

In the same way detail information might be gathered concerning various systems of education in operation in Great Britain, United States and on the Continent by the Committee without leaving Toronto. But none of these systems should be adopted without a thorough investigation, which might necessitate a visit to England, Germany, France or the United States, any more than the co-operative system of engineering education should be adopted without a thorough investigation even although detail information is furnished. Detail information is not everything. Impressions of men capable of judging are absolutely necessary in many cases before an adequate decision can be reached. In the investigation such as will be carried on by the Commission of the C.M.A. there will be many instances where these impressions of capable men will be needed; and there is no doubt but there will be many cases where detail information can not be obtained except by a personal visit.

It will not be obligatory for the Commission to spend the \$25,000; but it will be very advantageous to have that amount if such be found necessary to make a complete investigation.

The duties of the Commission should be to make a thorough investigation and report. If this does not necessitate going abroad, the Commission need not go; but if it is necessary the Commission should not hesitate to spend the money at their disposal in such a way. It is our opinion that more or less travelling by the Commission will be absolutely necessary if a thorough investigation is to be made.

ANNUAL MEETING OF A.S.M.E.

The annual meeting of the American Society of Mechanical Engineers will be held at New York City in the Engineering Societies' Building, 29 West 39th St., on December 1 to 4. There will be some important papers on steam and power plants, on machine shop practice, besides several good general papers. Two papers will be given before the Gas Power Section.

Visits will be made to the many points of engineering interest in the vicinity of New York—the large and efficiently operated power plants, the tunnels, the construction work constantly in progress.

At the last semi-annual meeting in Detroit, there were only two Canadians present. It is to be hoped that more Canadian engineers will take advantages of this meeting.

Full information as to railway rates, programme, etc., can be obtained from the secretary at the Engineering Societies' Building, 29 West 39th St., New York City.