

economic fact combined with intuitive appraisalment of human nature, serves to supplement and add greatly to technical ability.

The engineer is, in short, the true economist; if he were not, there would exist no engineering science at all. Unless the product of his inventive genius resulted in economy of time, saving in actual cost, or added to public convenience its decay would be inevitable if it had ever developed at all. On the grounds cited, it does exist and expand, hence those in contact therewith are already economists if not economic experts, whether they are conscious of the fact or not.

While all this is true, a great many technical men fail to realize that the subject is worth their attention. While it is generally considered a commercial subject of a business nature the engineer who takes trouble to read a few treatises on the subject finds his interest quickened and his powers improved.

The weakness of most technical training is want of commercial realization. The study of economics supplies in the main this deficiency to the ultimate advantage of the practical man when called upon to face larger issues. As a useful corrective to exclusive concentration upon distinctly technical matters its value can scarcely be overstated and the engineer is already prepared and usually proves an apt pupil. Short of a grasp of essential facts concerning exchange and finance and other related phenomena of trade and commerce, the highly trained technical man finds that superior positions are filled exclusively from the commercial side. It is realized that this is unjust but technical capacity is of value only in technical matters and there is a technique of business whose name is economics.

#### C.P.R. SCHOLARSHIPS AT MCGILL UNIVERSITY.

George Bury, vice-president, Canadian Pacific Railway, has issued the following circular: "Three free scholarships, covering four years tuition in chemistry, civil, mechanical or electrical engineering at McGill University, are offered, subject to competitive examination, to apprentices and other employees enrolled on the company's permanent staff and under 21 years of age, and to minor sons of employees. The competitive examination, which will be the regular entrance matriculation examination provided for in the University's annual calendar, will be held at the University, Montreal, and at other centres throughout Canada, in June. The candidates making the highest average and complying with the requirements of admission will be awarded the scholarships and have the option of taking any of the above courses. Scholarship will be renewed from year to year, to cover a period not exceeding four years, if, at the close of each session, the holder thereof is entitled, under the rules, to full standing in the next higher year. In case a scholarship holder finds it necessary to interrupt his course for a year or more, notice must be given at the close of the session to the company and to the Dean of the Faculty of Applied Science of the University, in order that the scholarship may be open to other applicants. In order to establish prior claim to the next available scholarship, notice of the students' intended return must be given to the company and to the Dean not later than January 1 preceding the opening of the session in which such scholarship will be available. Applications for certificates entitling eligible persons to enter the competition should be addressed to C. H. Buell, Staff Registrar and Secretary, McGill University, Montreal.

#### PERSONAL.

P. J. VENOIT has been appointed Minister of Public Works of New Brunswick.

F. ROBERTS, town electrician of Pincher Creek, Alta., has resigned in order to enlist for overseas service.

T. T. AUSTIN has been appointed manager of the waterworks department, Belleville, Ont., in succession to J. W. Evans.

C. J. HUNT, who until recently was chief contract engineer to Bruce Peebles & Company, Limited, Edinburgh, has been appointed chief engineer to the company.

J. RUSSELL ELLIS, acting city engineer of Regina, Sask., has resigned. D. A. R. McCannell, formerly assistant engineer, will succeed him, and R. W. Allen will succeed Mr. McCannell.

C. B. HUYCK, formerly with Mussens Limited, of Montreal, who enlisted as a private with the 6th Company Divisional Engineers, which was recruited from Queen's University, Kingston, and who has been in France for two years, has just recently been granted his commission.

WILLIAM TANSLEY, formerly assistant superintendent of the London, Ont., division of the C.P.R., has been appointed superintendent of the company at Montreal. He will be succeeded by E. WILLIAMS, superintendent of the Brockville Junction Division, who in turn will be succeeded by H. J. HUMPHREY, who has been acting superintendent of the Laurentide division with headquarters at Montreal.

H. S. PHILLIPS, A.M.Can.Soc.C.E., of the engineering staff of the Canadian Nitro Products Co., has received a commission as a lieutenant in the Tunnelling Section of the Canadian Engineers. Mr. Phillips was formerly assistant engineer in the sewer section of the Department of Works, Toronto, and was loaned by that department to Prof. Phelps to assist in the preparation of the latter's report on "Pollution of Boundary Waters," recently presented to the International Joint Commission.

#### OBITUARY.

JOSEPH GEROUX, a Quebec contractor, died on April 4th at the age of 52.

ALFRED BATHO, a Toronto contractor, died recently at the age of 70 years.

HUGH RUSSEL, president of Hugh Russel & Sons, Limited, iron and steel merchants, of Montreal, died recently at his home at the age of 73 years.

#### CORRECTION.

In our issue of March 15th, 1917, there appeared an article on the "Don Incinerator," Toronto. It was stated that "The plant is equipped with three high-temperature "Sterling" furnaces of modern design, which have been installed by the Canadian Griscom-Russell Company, Limited. There are three furnaces of four units each. Each furnace has a grate area of 25 square feet," etc. The foregoing should read, "There are three furnaces of four cells each. Each cell has a grate area of 25 square feet."