January 16, 1963 BRUNSWICKAN

. . ENGINEERING Message From The Dean

of Engineering producing an is- Arts Faculty, with the professue of the Brunswickan as part sional subjects given by practisof the program of "Engineering ingengineers. The number of Week". I congratulate them on graduates in any year was usually the continued excellence of their not greater than five or six. edition and thank them for the opportunity afforded me to address a few remarks to the University generally. This year, in contrast to previous occasions, I have prepared a short history of Engineering at this University and hope that it may be of some interest to all readers of this edition:---

Instruction in Engineering at ence. He was succeeded in 1893 Canada's oldest University began by George M. Downing, B.Sc., as the result of the foresight of an electrical engineer educated two men, William Brydone-Jack in the United States, who was and Sir Edmund Head. Brydone- appointed as Professor of Phylack was appointed as Professor sics and Electrical Engineering. of Mathematics and Astronomy from 1861 to 1885. Sir Edmund marked by an awakening of the conferred in 1953. Head was Governor of New necessity of expansion in engion-Brunswick from 1847 to 1854 eering instruction, agitation for a period of steady growth marked and Governor-General of Can- the purchase of equipment which by a large extension to the Enada from 1854 to 1861. These the University could not afford gineering Building in 1957, and men had the foresight to appreci- and frustration of the staff, which the beginnings and rapid growth ate the significance of the techno- changed frequently. The unrest of graduate studies, further inlogical developments of their of this period resulted in the es- crease in staff, increased support times and their place in an aca- tablishment and awarding of the by the University and Industry, demic institution. Together, they first degree in 1899 and the com- rapid improvement of laboratory guided the institution, known pletion of an engineering build- facilities and equipment and finthrough the most critical years creased considerably following courses in Engineering, with the first offered by other careers. Far by a wide variety of firms the of its existence. They opposed these favourable developments in 1962. The Survey classical traditions which had de- ing education as we now under- ing course is unique at Englishveloped under the first President stand it stems from them. of the College who, in his Encaenial address of 1851 stated:

"In a thinly populated and

"It is a pleasure again this year instruction to engineering stuto see the students in the Faculty dents was given primarily by the

The first staff appointments to recognize the separate existence of engineering was made in 1889 with the establishment of a Chair of Civil Engineering and Surveying, and the appointment of Mr. Allen Wilmot Strong as the first Professor. At the same time Dr. Wilmar Duff was appointed to a new Chair of Experimental Sci-

until 1859 as King's College, ing in 1901. Registration in- ally by the institution of degree through the most critical years creased considerably following courses in Chemical and Surveythe conservative policies and and it can be said that engineer- graduates in 1962. The Survey-

nated by B.A.I. but this was gress during the Nineteenth cenchanged to B.Ss. (in Civil and tury, gradual development under Electrical Engineering) in the the leadership of capable, deditry, no means which could be em-ployed would have the effect of John Stephens, a graduate of this century and accelerating exfilling the College with agricul-tural, manufacturing, mechanical, pointed as Professor of Mechani- the Faculty of Engineering at or commercial students. The at- cal Engineering. His unique per- the University of New Brunswick tempt could have no better effect than miserable, disheartening, erations of students until his April, 1962 self - destructive disappointment. retirement in 1945. A. Foster Intellectual and moral culture Baird was appointed as Professor of Physics and Electrical Engineering in 1916 and continued as Professor of Electrical Engineering from 1927 until his retirement in 1957. There can be no doubt that John Stephens, Foster Baird and Earle Turner were the founders of the modern engineering Faculty at the University of New Brunswick. Singlehandedly they built up and maintained their separate departments through the lean years of the the Colleve to consider giving depression and into the hectic years of World Wor II. During eering. As a result, Mr. Creagan, this period, Electrical Engineering acquired separate facilities in the World War I Memorial ropean and North American Building (opened in 1924) but



DEAN J. O. DINEEN

year curriculum graduated in 1952 and the first degrees in The decade prior to 1900 is Mechanical Engineering were

The past ten years have been speaking Canadian universities. Against this background of an

The first degree was desig- early start, painfully slow pro-

Engineer's Poet Her That I Loved

Last night I embraced My girl of the street, When I caressed Her playful thighs A joy flickered In those limbs of sin, Of course it was then I stole the heart Of that capricious girl, Entwined in her cobweb hair She lulled me to sleep.

Oh, I have lost a dream To discover that rude dawn Has softly stolen her away; O empty the heart O empty the purse That under pillow lay.

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New Field For Graduates

Accounting firms have been try- engineer-accountant has a big ing to recruit engineering grad- boost on the road to high manuates. This trend was started in agement positions. Ontario only a short time ago and one large firm took on over tween \$350 and \$400 a month, 20 engineers. These engineers as compared to about \$450 for a are trained through an accelerat- starting engineer. Along with ed three year program, available in Ontario and Quebec, to be- either at night school or correscome Chartered Accountants.

Opportunities are for every branch of engineering and to his understanding of production, the whole or in part by the firm. engineer-accountant gets an imadvising management on a wide to train as C. A.'s more will un-variety of technical and financial doubtedly be heard from them.

This year for the first time on problems. He has better than the U.N.B. campus, Chartered average lifetime earnings and the

The starting salaries are bethis the courses, which are taken pondence, and the registration fees to the Institute of Chartered Accountants, are paid for in

mediate insight into business not This years the active recruiting green eye-shade toiling over a most unnoticed by the engineers. desk in a dark corner, the mod- However, since by 1970 the Acern public accountant is a pro- counting firms hope to be acfessional man actively engaged in cepting only university graduates

Hold Your Heads

what may be considered a small well. backwoods school by some The major reason for our high people, the majority of the in- quality with low quantity is the formed population realize that point of view with which our even if the town is dull and bor- professors look upon us. In the

Even though we come from do but study so you might as

should be our pursuit and occupation."

Even before this time, Brydone-Jack had been giving lectures in surveying as part of the mathematics course and was responsible for the construction, in 1851, of an Observatory which boasted a six-inch telescope and was the equal of any on the continent. In 1852 Sir Edmund Head petitioned the Council of specific attention to Civil Enginan English engneer who was conductnig a survey of the Eu-Portland, gave his first lecture this was the only physical exon February 15th, 1854 to a pansion. class of twenty-six students; the After World War II, the vetfirst engineering instruction at a erans quadrupled our registra-Canadian University. In these tion. Further expansion was early years, the curriculum was necessary in physical plant and heavily charged with preparation the staff grew rapidly. Following

College to the University of New course to five years after Junior Brunswick in 1859, a diploma Matriculation, and to offer a dewas established for the course in gree course in Mechanical En-"Civil Engineering and Survey- gineering. At the same time afing" and was first awarded in filiations were arranged with a 1862 to George Ketchum who, number of other universities during his professional career with respect to offering the first made the first study of the Chig-necto Canal. While a course in Chemical and Mining Engineer-Science was established in 1871, ing. The first class from the five

for the construction of railways. the veteran bulge in registration With the transition from King's is was decided to extend the

DEAN OF ENGINEERING

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held in high regard.

the size of the school and the most.

ericton, there is nothing much to . . . when you graduate.

ing the campus is very much large Universities if a fellow gets alive. It is normally very difficult 49 the administration will say to judge which is the best uni- "He didn't meet our standards, versity or the second best, the throw him out" and that's that. only way that this can really But here the administration and be done is by a survey of the faculty ask themselves, not graduates, but in this survey the whether to lower the standards to personalities of the persons in- let this fellow get through, but volved play too great a role to how can they help him rise to. make any estimate accurate. meet their standards. This is the However in talking to quite a important point, do not check the few persons who make it their precision only at the end of the business to know about colleges, assembly line but check it all it is very encouraging to learn along the way and give a little just how well we are thought of. push-if the accuracy starts to The electrical and civil depart- drop off. If you wanted to see ments were mentioned especially, the Dean at McGill about your with much praise for the up and low Christmas marks you would coming surveying and chemical have to make an appointment for departments, the mechanicals are April. When one learns about the severity of the regulations at

This caliber of education with other institutions of learning, one which we are credited may seem appreciates the reasonable and strange to you when you hear considerate outlook held by the about the fantastic number of staff. You would be surprised failures at such places like Mc- indeed to learn what a difference Gill. This can be attributed to this relationship makes in the two very important differences in faculty, their idea is not to do the universities. The minor being the least that they can for us, but

size of the town, it is definitely The credit for this achievenot impressive to listen to a lec- ment of high graduate caliber ture over a loud speaker in an- without a cut-throat attitude rests other room, and this is the case solely with the dean, his staff, in the large classes at the large and the policy of the university. schools, have you ever tried to So when you leave this University study in Montreal, think about you can hold your head high and it, that is the advantage of Fred- consider yourself one of the top