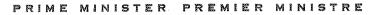
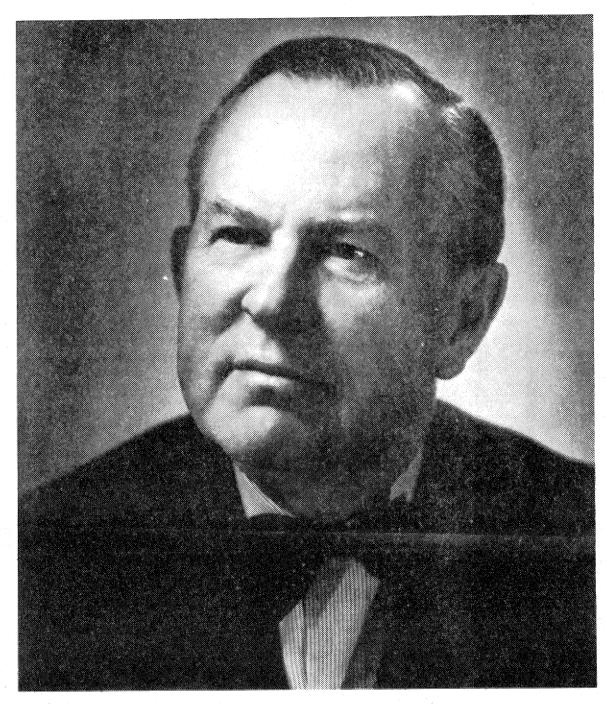
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NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY EDMONTON, ALBERTA, CANADA — ASP NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY

NAID 67





I am pleased to extend warm greetings from the Government of Canada, together with my own, to all the teachers and students of the Northern Alberta Institute of Technology in Edmonton.

We are all celebrating the Centennial of our country this year. It is a good time to reflect on the blessing we all enjoy because we are Canadians.

In our first one hundred years of nationhood, Canada has grown in stature and status beyond the dreams of our Founding Fathers. We have achieved much in this country and in our Centennial celebrations we are acknowledging our Canadian achievements.

Centennial celebrations we are acknowledging our Canadian achievements.

Most of all, we have a great variety of human resources in Canada and the Canadian ideal of social and cultural diversity, within a political unity is uniquely encouraging to the wise and compassionate enjoyment of these; most valuable of all our national resources.

This concept of Canadianism is far more demanding on all that is noble in the human spirit than any concept of conformity would be. But it is also far more rewarding, both for our nation and for all individuals whose separate dreams and infinite variety of personal aspirations are all that can ever make any nation endure.

May I wish you all success.



Mearson

L. B. Pearson.

On behalf of the Government of the citizens of Alberta I wish to extend sincere best wishes to the Northern Alberta Institute of Technology on the occasion of its fifth annual Open House. It does not seem possible that five years have elapsed since we opened our second major Technical Institute in this province. However, the fact remains that in this short span of time 30,000 people have received some type of instruction in the four main divisions of the Institute.

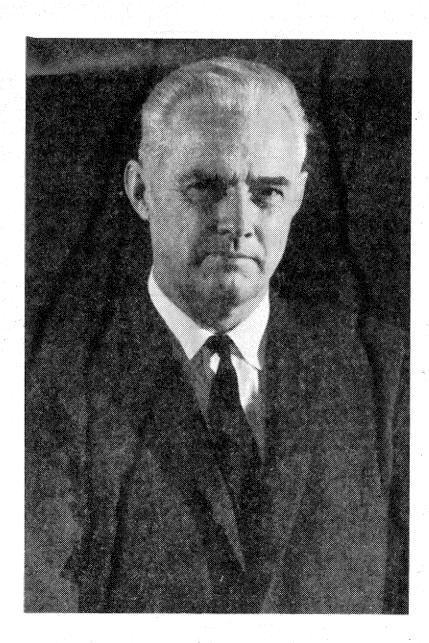
We are proud of the fact that we can provide this service to Albertans of all ages, particularly our young people, and we are pleased that this type of training is so well received.

With the ever increasing demand for technically competent people in this province, it is our sincere hope that as many young people as possible will take the opporunity to see for themselves the variety of courses offered at the Northern Alberta Institute of Technology.

May I also extend my congratulations to the students responsible for the Open House edition of the "Nugget". Your unselfish effort in producing this edition is to be admired.

Ernest C. Manning, Premier of Alberta.





The students and staff of this Institute are happy, once again, to welcome you to our 5th annual Open House. The welcome mat is always at our door but at this time of year we make special arrangements to acquaint you with the various activities of our Institute.

This being Centennial year, we are supposed to take the time to reflect on our one hundred years of nationhood, progress and accomplishment. Somehow it is difficult to relate this Institute to anything connected with the past. We are so young we don't have any fixed traditions, unless we consider instant success a tradition Perhaps we represent the new Canadian concept—youth—change—society today—the Canada of the present.

We hope that as you tour our buildings you will be aware of the spirit generated by our students. This is one of the largest, most modern, best equipped Technical Institutes to be found any place and we believe we have acquired an exceptionally well qualified staff. The students exposed to such an atmosphere seem to have developed into forward looking, responsible adults, willing and able to cope with whatever the future may offer. They are not afraid to try, they are independent in their thinking, and at the same time they have a very healthy respect and concern for their fellow man.

Please take the time to ask them about their courses, you will find them to be proud of their work and willing to talk to you.

W. A. B. SAUNDERS, P.Eng., Principal

ELECTRONIC TECHNOLOGY

offered at N.A.I.T. is orientated to tronics, Exploration and Instruprovide knowledge and training in mentation technology are combinelectronics which prepares the ed into a common course. The graduate for employment in in- student therefore, can, if he wishdustry. Subjects such as mathe es, change technologies after his matics and English are offered to first year. In the AB pattern the enable the graduate to enter in- first quarter is common and the dustrial fields of sales, distribu- rest of the programme different. tion and advertising. Those persons who are more interested in that there will be 200 students entime. The lab courses are aimed Year AB. at providing the electronic techdevelopment and manufacturing.

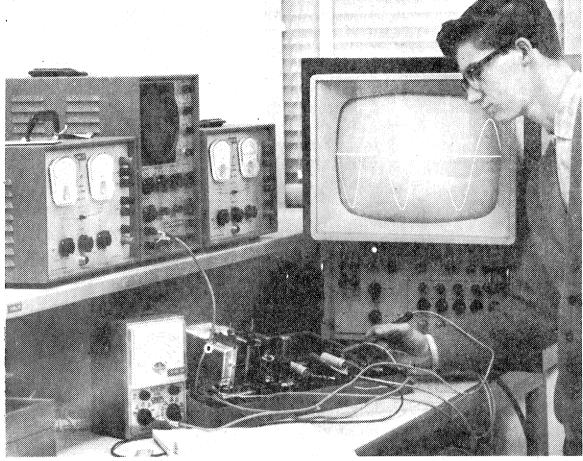
state devices.

Year B.

The Electronic Technology course In Year A the students of Elec-

Next year, 1967-68 it is expected the technical tasks may find rolled in Year A, 100 in Year B, greater interest in the laboratory 160 in Year C and 160 in Year AB. courses which constitute approxi- These figures include Exploration mately half of the total instruction and Instrumentation in Year A and

On the social scene the Elecnologist with the knowledge and tronic Technician Student's Society skills required to enter research, offers a varied programme including parties, dances, a queen cam-Each year brings a greater em- paign, participation in intramural phasis on computers and super- sports, and tours. This year for the visory control as applied to in- first time the Electronics club has dustry. With an increasing use of sponsored the N.A.I.T. television solid state electronics the course show. Through club sponsorship is now being revised to give a the television studio has produced sounder basis in the use of solid two three-quarter hour shows per week through the closed circuit Anyone with a senior matricula- facilities within the school. In the tion can enter an AB programme immediate future we hope to be in which the first two years are able to patch in to the Educational combined into an accelerated TV system that is being organized course. High school graduates who by the Department of Eduction have taken Electronics 22 and 32 within Alberta. The membership courses are admitted directly into fee for the student association is \$2.00. Membership entitles one to



participate in all club activities.

personal projects or to catch up on lab assignments.

nology may become an associate tries. This year a lab room was also, member in the Institute of Elec-Any student in Electronic Tech- electrical and electronic indus- club.

To get some idea of the projects opened one night per week to allow trical and Electronic Engineers. and services of the electronic techstudents to use school facilities for This is a professional organization nology course a series of Open set up for the exchange of current House Displays have been erected information of importance to the by the members of the electronics

DIROTRONIO TEORNOROS



tries in the world with an abundance of primary natural resources, such as base metals, rare metals, natural gas and petroleum. The majority of these minerals still lie untouched and hidden within the confines of the earth.

It is the search for these untapped riches, which becomes the main concern of the Exploration Technologist. In order that this search can be carried out successfully, intelligent planning and programming are of primary importance. The explorationist must therefore be thoroughly familiar with the use and operation of all equipment available to him, as well as a sound knowledge of geology and geophysics.

struments and the subsequent in- problems of structural geometry. terpretations, it is a must that he is proficient in the above men- earth below the surface by physitioned courses.

full year.

Canada is one of the few coun- undergone, and the causes which ing both refraction and reflection are responsible for the alterations methods, involves the finding and in the crust.

> of economic mineral deposits and niques. the study and classification of common rocks and minerals. The Prospecting - This includes the study is supplemented with labora- use of gravimeter, the principles tory study of the specific minerals involved in gravity field measureand rocks under study.

> tails the chemical aspects of earth's magnetism and principles geology. The laboratory work in of magnetic prospecting are this section comprises qualitative studied and interpretations of magmineral identification and analysis netic data made and evluated. of elements commonly encountered in geochemistry.

he has an understanding of elec- tonics and Structural Geology con- tory. ronic principles and applications. cerns itself with the evolution of As a result the prospective student the continents, earthquakes and of study. In addition the student starts his career at N.A.I.T. with earth structures, fault and fold also takes up surveying, drafting an intensive study of electronics, classification. To increase his and an introduction to computors. physics, mathematics and English. understanding of these processes. In the last year of studies the stu-Before the student can understand the student constructs structural dent will have a choice of options, the complete operation of the in- cross-sections, tectonic maps, and he may either study towards a

Geophysics is the study of the cal measurements. During his final its structure, the changes it has is made of (a) Seismic Prospect- there are graduates.

locating of favorable structures Petrology and mineralogy in- for the accumulations of gas and volves a detailed study of the for oil, by interpretation of data formation of minerals, the genesis obtained through shooting tech-

(b) Gravity and Geomagnetic ments and data reductions. Geo-The study of geochemistry en- magnetic prospecting involves the

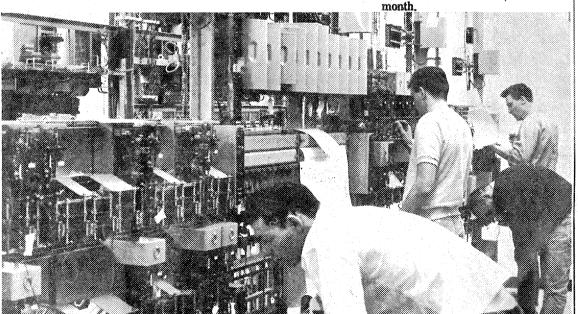
(c) Electrical Prospecting—This incorporates self-potential resis-In order to understand the tivity and electro-magnetic methhappenings at the surface of the ods in mineral exploration. All The Exploration Technologist earth, an understanding of the these different methods are supwill be required to work with a earth's interior and processes in- plemented with actual field probwide variety of electronic gear volved in the alteration of the crust lems, which are reduced and evaland it is therefore essential that is essential. The study in Geotec- uated by the student in the labora-

mining career or a petroleum oriented job.

The future for the Exploration Technologist looks very bright in-Geophysics, its uses and appli- year the student will become fa- deed. Whether your interest lies cations, is taken in detail for a miliar with most of the instru- in mining or the oil patch, interestments employed in geophysical ex- ing and rewarding careers are Geology is the study of the earth, ploration. A comprehensive study available in greater numbers than



UNLIMITED **OPPORTUNITIES TELECOMMUNICATIONS**



Telecommunications Technology is the first course of its type taught in Canada, therefore grads should have unlimited opportunities. Up until now, major telephone companies have been training their own technicians or hiring engineers to fill positions that the Telecommunications Technician is being trained to hold.

The Telecommunications Technician works in the broad field related to telephone, carrier, microwave, electronic switching and other communication fields. Much emphasis is also placed on computers since automation is also taking over in this field.

Students enrolled in Year "A" are given training in basic electricity, electronics, math, physics and English. Much emphasis is placed on math and physics since at the completion of this year students gain their High School Diplomas. Transistor and tube circuits are studied in much detail so that the student will have a complete knowledge of basic electron-

When a student begins Year 'B", he gets into the actual Telecommunications courses. Courses are taken in subscriber equipment, step-by-step switching, electronics, carrier, radio and transmission lines. These courses are supplemented by courses in math, physics and English. Some other related courses are also taken. Operational equipment is used in the labs, so that the students get experience on equipment that is in use in industry.

An accelerated course is also offered to students that have completed Grade 12 and have high standings in math, physics and English. A student enrolled in this program is given a combined "A" and "B" Year.

Students in Year "C" study electronics switching in detail. Basic computers and computer programming are also studied. The Third Year student also studies micro-wave, direct distance dialing, cross-bar switching, data transmission and other courses on modern communications systems.

Grads of Telecommunication Technology can look for careers with nearly any major Telecommunications company, such as A.G.T., Northern Electric, Automatic Electric and Bell Telephone. Since there have been no grads as yet, salaries are unknown, except that this year's graduating class have been offered over \$500 a

INSTRUMENT— ATION A VOCATION TO CONSIDER

mentation is the science of apply- organized and very efficient. operations.

ledge in the sciences which will tions. enable him to keep pace with the of automation.

tion course is devoted to training cal experience and a good mechstruments, actual lab training by If you are a person who is able to using the instruments, theory and meet the requirements as set operation of related electronic cir- down by the Institute, there is a cuits, chemistry, physics, mathe- world of opportunity awaiting you. matics, and English, Because of the rapid de elopment of new instruments and the large number of existing types of automatic controls, it would be impossible for the student to study them all. Therefore the instrument theory course is designed to give the student a sound knowledge of the principals of automatic control, and in this way enable him to cope with practically all types of existing industrial instrumentation. In the future it is hoped that a post-graduate course will be offered to Instrumentation Graduates to help keep them abreast with new developments in the automatic control field. As the course progresses the amount of time spent in the Lab increases to about half the total training hours. Here the student will learn fault analysis. instrument repair, and installation. Tube fitting is also studied as well as a short course in welding. At this institute we are fortunate to have perhaps the most completely equipped instrument lab in Canada. Upon completion of the new "J" Wing of the institute, the existing instrument lab will be moved to more spacious and fully equipped quarters.

This course, as mentioned before, is relatively new and has had

Many people are unfamiliar with its growing pains. However, most what is involved in Instrumenta- of the early problems have been tion Technology. Probably one of eliminated and the new student the best definitions is that Instru- will find the entire course is highly

ing devices and techniques to You may wonder whot the job measure, record, monitor and con- opportunities are in this field. trol plant equipment and process After all, there is not much point in attending a two or three year Instrumentation technology is a program if after that time you are relatively new and expanding field, unable to obtain employment. By requiring a great degree of know- all standards the opportunities are ledge in electronics, pneumatics, excellent. In Canada there are only and chemistry of processes. Be- three institutions training instrucause it is a new field in technical mentation technologists. Consetraining, there is a lack of proper- quently the demand for graduates ly trained people in industry. It exceeded the supply. Last year the is therefore the function of this average was two job offers per institute to train young men to graduate, with the average startfunction efficiently in the atmos- ing salary at \$440.00 per month. phere of industrial instruments, as These jobs were divided primarily well as to provide a basic know- between industry and sales posi-

This has been a brief outline as rapid development of new meth- to what instrumentation is all ods and mechanisms in the field about. Of course there is much more in this field than can be The basic two year instrumenta- learned from books alone, Practithe student in the operation of in- anical appitude are great assets.



WESTERN JACKETS

COMBOY BOOTS

LEE RIDERS

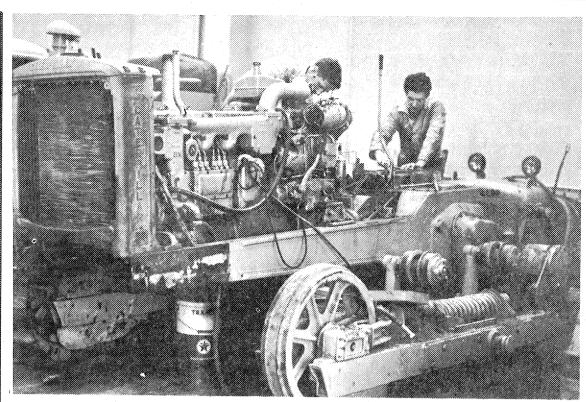
LEE LEENS

RJ.WELSH

10315-101 ST. 422-2731 2 Blocks north of Woodward's

fanomaranaming.





BRING ON THE WHITE KNIGHT!

stitute there are two classes of Heavy Duty Technicians who use this large shop as a training ground. What they do in this shop and why is the technician not just a mechanic are the reasons for this report.

First of all "Heavy Duty" is short for Heavy Duty Equipment Technology not Heavy Duty Mechanic as many people assume.

Our course includes the apprenticeship technical training and a firm foundation in math and science while in the second year. The course is more of an engineering program. Some of the courses are electricity, thermodynamics,

In the north-east end of the In- hydraulics, fuel and lubricants, his way up to Foreman or Superviswork.

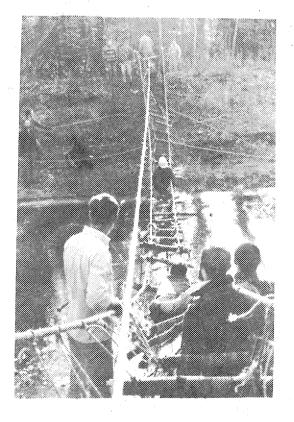
> separates the technicians from the tremely detailed and very exten-

Upon completion of the course the student receives a diploma and instructor. may enter the trade as an apprentice. After serving two years to qualify for his Journeyman's Certificate of Proficiency without further technical training. After seveacquired he may proceed to work other questions you may have.

drafting, and some advanced shop- or. The successful student could also choose to further his education The second year is the one that by becoming a mechanical engineer or a more qualified technician. mechanics as the theory is ex- From this position he could become a Service training technician, an engineer, or choose to come back to the Institute as an

This is a very rewarding course to the person who is fascinated by gain trade experience, he may mechanics but would not like to remain a mechanic.

We wear black felt jackets with Heavy Duty on the front. Stop us ral of his Journeyman's papers are and we will be glad to explain any



ing. That's why things go better with Coke . . . after

Coke . . . after Coke.

CIVIL PARTICIPATE IN A **BRIDGE BUILDING CONTEST**

ONAN MEGIR CEMANS RECOGNIZADIA USA

is a semi-professional man, who capacity the civil technician is employed in construction industry as: surveyors, draftsman, estimators, inspectors, superintendents and assistant to design engineers.

technician enters a two or threeyear program at the Northern Alberta Institute of Technology. During the two years the civil technician is introduced to all phases of civil engineering technology. His courses include Math, Physics, English, Statics, Strength of Materials, Drafting, Soils, Surveying Highways, Municipal, Hydraulics and Wood, Steel and Concrete de-

construction field in whatever aspect that interests him.

these prospective fields the civil the Institute. This year's graduating class will enter the engineering and construction fields with the valuable information attained by two previous graduating classes. This information will be valuable in letting them know what will be expected of them by their prospective employers and what they will expect of their employers.

Civil graduate are unlimited, as courses in Mathematics and Mechsign. These courses are packed it is estimated that the number of

The Civil Engineering technician into six ten-week quarters of three Civil Technology graduates will hundred hours each, with final never equal the number required acts as liaison between the design exams at the end of each quar- by industry. As a result of this, the engineer and the builder. In this ter. With these basics the Civil Civil graduate is offered a start-Technician is ready to enter the ing salary of between \$400 and \$450 dollars per month. This year the Provincial Government is off-The field of Civil Technology is ering a bursary of \$50 to \$100 a not a new one, although it is only month to students in Civil Tech-To accomplish a proficiency in in its third year of operation at nology, who will work for them for one year after graduation.

The fall of 1967 will mark a milestone in the Civil Technology section, as it will be the first time that our courses will be recognized by the University of Alberta. A graduate of Civil Technology will be able to enter into second year University, upon the recommendation of the N.A.I.T. course The job opportunities offered a and upon completion of additional

ARCHITECTURAL TECHNOLOGY —

During the past two decades we produce registered architects. have witnessed a pace in the buildstruction methods and a growing of Architecture. need for buildings of all types. It The course provides a practical has become an industry of con-background through the exercise suming interest to all those en- of constructional methods in the gaged in it.

The primary objective of the the materials of construction. three-year course in Architectural that he can, with experience, per- niques are completed. form on-site inspections and super- Technical studies are made of agent of the architect.

restrict the graduates field of em- systems of buildings are studied. ployment to the architectural Working drawings of several office; rather, it prepares him for buildings are produced and printa wide variety of positions in the ed. construction industry.

in a variety of phases of the con-plish the preceding work, studies struction industry. They might in- are made in relevant areas of clude: Architects' offices, con- English, Physics and Mathematics. struction companies, town and distral Mortgage and Housing Cor- will be displayed during Open poration, civic building inspectors House. offices, drafting companies, trailer or home manufacturing companies, and building materials com-

spacious and well lighted. Work is existing complex. The addition was He will at other times be working E 205. long hours under high pressure. The usual working week is 40 hours.

\$300 to \$350 per month, while sala- with high academic standards may ries for experienced personnel complete the course in one exvary from \$450 upwards.

years of the course is \$54.00. In months. Students admitted to this addition, a registration fee of \$5.00 program should be prepared for a is required each year at the time more intensified course of studies. of registration.

and for the third year \$60.00.

training of architectural techni- minimum overall average of 55%.

This course is NOT designed to Registrar.

Even though a route does exist ing industry which has never be- whereby a graduate can, by servfore been approached in the his- ing articles and writing professiontory of man. Most of Canada, es- al examinations attain registration, pecially Alberta, is among the this route is NOT recommended. vanguard. A vigorous and chal- Registration is properly attained lenging new architecture has evol- by attending one of the courses ved from a multitude of new con- offered at the University School

shop, and an extensive study of

Skills, knowledge and aesthetic Technology is to train students to abilities, are of pre-eminent imbecome highly skilled technical as- portance. They are developed in sistants to the professional archi-freehand drawing and illustration, tects. Upon graduation, the stu- in mechanical drawing, and in dent will be a skilled architectural general artistic and architectural draftsman with well developed design courses. Perspective drawabilities in freehand drawing, ings and renderings, and presentasketching, and illustrating tech- tion drawings are made in various niques. He will be fully able to de- black and white and coloured tail structures and be competent media. Models of proposed buildin producing thorough working ings and design projects are condrawings. He will be sufficiently structed. Numerous design proconversant with construction prob- jects in two and three dimensions, lems, materials and methods, so employing many coloring tech-

vision of work in progress as the strength of materials and structuctural design of buildings. Mech-This training will by no means anical, sanitary, and electrical

To provide the academic tools Employment opportunities exist necessary to completely accom-

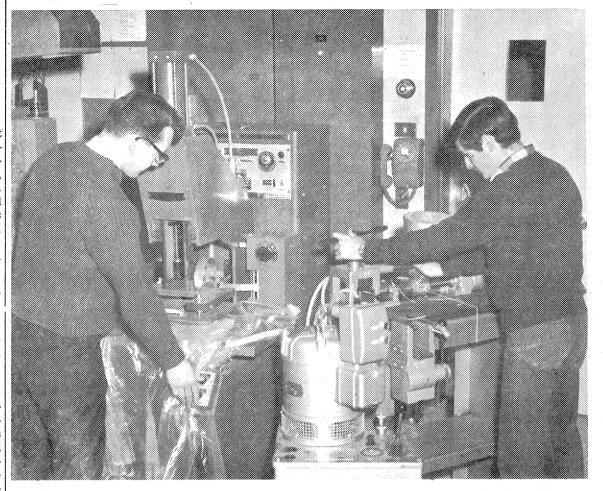
Examples of the work done by trict planning departments, Cen- the present architectural students

Of particular interest to both prospective students and the general public will be the model of the N.A.I.T. campus built by the year Generally, condition of work is "c" students. This model features exceptionally good. Offices are a new proposed addition to the regular and steady, although the designed and constructed solely by industry is characterized by occa- the students as a joint project in sional "rush" and "slow" periods. their design and presentation tech-Consequently, a person engaged in niques courses. The model, along this work may find that the pres- with other examples of student sure of work is very low at times. work, will be on display in Room

In addition to the regular threeyear course in Architectural Technology a special program has been Beginning salaries average from set up whereby Grade XII students tended term of 10 months duration The fees for each of the three and one regular course of 8

To gain entry into the accelerat-Drafting instruments, supplies ed program, students must have a and text books for the first year minimum of 100 Alberta High will cost approximately \$140.00 School credits or equivalent with and for the second year \$90.00 at least a "B" standing in Math 30 or 32, Physics 30 or 32 and The objective of the course is the credit in English 30 or 33 with a

cians. A diploma will be received For further information as to upon graduation from the Insti- courses and registration, prospective students may contact the



PLASTIGS - UNIQUE IN NORTH AMERICA

large. The two-year course offered tructive Testing. at N.A.I.T. in plastics is the only

cal background of both thermo- in this unlimited field. setting and thermoplastic mate- Open House Display rials as well as an intensive study The Plastics section is attempt-

need for technicians is just as rials, Physics, Drafting and Des-

one of its kind in North America. fied technician capable of handling students a brief preview of what It provides a thorough theoretiany one of a multitude of positions is entailed in the study of plastics

of production and manufacturing on the techniques involved in the the course itself.

Consider, if you will, attempting techniques. A great deal of time manufacture and forming of plasto pass a single day without uti- is also devoted to a detailed analy- tic articles, primarily through the lizing plastics in one manner or sis of the major plastics utilized application of heat and pressure. another. It would be next to im- in industry. This takes in physical Also open to the public will be possible. Your day is a fabulous and chemical properties, identifi- a practical demonstration on the maze of these mystic and wonder- cation, inspection and testing actual demonstration of the raw ful chemically derived materials. methods of each type. The balance plastics by chemical reaction. An The world of plastics is a wide of the course is comprised of interesting display is to be set up and rapidly expanding one and the Mathematics, Strength of Mate- illustrating a few of the odd properties of some plastics materials.

This exhibit has to be designed The Graduate is a highly quali- in an attempt to give prospective and it is a must to see. Students will be on hand to answer any questions that viewers may have of the chemistry of plastics and ing to set up a variety of displays on either the topic of plastics or



Many years before Confederation, traders and adventurers of the Hudson's Bay Company helped to shape the history of Canada through exploration and settlement. Since the establishment of the Bay's first department stores — Winnipeg in 1881 and Edmonton in 1890 the Bay has progressed with the country. Today, 100 years after Confederation, the Bay still serves Canadians in its continuing tradition of quality. Your satisfaction is assured when you shop at the Bay.





Survey Technology

technology are affecting every profession the world over. New equipment and methods are conare affecting the surveying profesthe surveyor is irreplacable, and must utilize in surveying. the demand for qualified personnel is steadily increasing.

at N.A.I.T. believes that a broad basic knowledge of surveying is necessary to cope with the modern their application in surveying. changes constantly being introduced into all fields of survey. The Division also believes that an sive courses on this subject rectly related to surveying the extensive field program is also are included in the Survey pro- student becomes familiar with the essential to produce an eficient graduate.

The basic knowledge required to cope with these changes in Surveying lies in the fields of Mathematics, Physics, Photogrammetry, Geology and Astronomy. These courses are also the curriculum of the Alberta Land Surveyors' and the Dominion Land Surveyors' program. These courses prepare the student to write the professional logical surveying. examinations of these organizathese courses at N.A.I.T. and a business letters and an oral dis- rate, modern and complete. Its three-year period of articling will sertation of a report provides the product will be graduates of high give the candidate professional necessary background in English calibre, thoroughly educated in the status. It may well be noted that the Survey Technology program is an intensive field course conduct by familiar with the instruments the only one at N.A.I.T. from which a professional status can be obtained without further training.

The course in Mathematics is perhaps the most essential course is the use of vanous basic instru- field with a minimum of instrucin Surveying and consequently a most rigid and extensive Mathematics course is followed.

plications of physics in surveying: light and electricity.

Courses in Astronomy and Geostantly being introduced and em- logy prepare the student for his related course in electronic comployed. Many of these advances professional examinations as well puter programming is utilized to as giving him the necessary knowsion. It is an established fact that ledge of these subjects which he

playing a more important role in the country where typical survey The Survey Technology Division surveying; to provide the student problems are solved. This also prowith a practical and theoretical vides the student with an opportunknowledge of the principles and ity to develop initiative and

> Drafting is also an essential of the problems, course of surveying and extengramme. Following the course in following types of surveys: Engiare taught, the student becomes graphic, highway and road confamiliar with such topics as struction, and exploratory and topographic drafting, engineering recconnaissance surveys. Courses drafting, and legal survey drafting. in survey calculations enable the Descriptive seemetry is also in- student to easily cope with the cluded. This provides the student various problems related to the with an understanding of the theory. A course in the principles principles of mine wirveying, con- of legal surveying supply the starstruction surveying and also geo- dent with information on regular-

A course in technical writing, The Survey Technology program Successful completion of including the writing of reports, at N.A.I.T. is most intense, accurately

> ed with the use of modern instru- and their uses, and versatile ments and amplified by a thorough in every aspect of surveying.

ments, as well as the familiarization. He will not only fill the detion with such applisticated instru- mand for qualified personnel, but ments as the Commeter and the he will fill it well. The Physics programme provides Tellurometer, which provide the

most modern and efficient method of the measurement of distance. The field course includes all typi-Today's advances in science and a good basis for the two man ap- cal engineering survey problems being worked out under field conditions, then being computed and recorded in the drafting room. A solve some of these practical field work problems. The field work is accomplished by field trips to vari-Photogrammetry is constantly ous locations in the city as well as leadership in the solution of some

In the theoretical component diwhich the basic drafting practices neering, land, topographic, hydrotions.

The survey programme includes principles of surveying, thoroughstudy of the theory of surveying. He will be able to cope with Included in the field program any changes or advances in the

DRAFTING TECHNOLOGY

The technical demands of indus- draftsman. try are increasing, changing and ing of mechanical, structural, ar- bility. chitectural, and topographical objectives of the course.

is the basic understanding of mod- the present demand in industry. ern construction techniques and tices are available. The curriculum tion shop techniques. includes courses which discuss these and other new methods in approximately 65% of the course shop, surveying and drafting.

tricity, heat, sound and light are ics course. Construction, machine part of the physics course. Con- an array of various models with struction shop consists of demon-various applications. For example strations, field trips and shop exthere are models such as the "Ski perience in the many systems and Boat" complete with controls and types of construction operations engine built to one sixth full size; commonly performed in the ma- a beer and spirits "Distillery" chine shops. In surveying, actual modelled after Corby's of Corbyfield work involving leveling and ville, Ontario; and "Industrial traversing is carried out by the Kiln' modelled after the "Edcon" student.

ing.

Open House Display

ture.

Drafting Technology has prepared various fields of importance to the

Perhaps the most important obdiversifying at an accelerating jective of the course is to turn out rate as we enter the last third of draftsmen who are well trained in this century. It is quite probable the basics of drafting. An emphasthat this trend will continue into is is therefore placed on such the future and it is with this in seemingly uncomplicated things as mind that the curriculum of Draft- good dimensions, line-weight and ing Technology was set. The Cir- composition in each assignment riculum has been designed to in-throughout the course. In general, clude only those courses that will the entire program provides an enable the graduating Draftsman educational background of such a to cope with any problem he may nature as to fit the ambitious inencounter. A working understand- dividual for positions or responsi-

The course of Drafting Technoldrawing practice design are major ogy is designed to supply the student with the required high degree A prime objective of the course of skill that is necessary to meet

Due to the various types of draftshop practices. During the past ing encountered in the technical few years new materials have field, a working knowledge of brought about greater freedom in mechanical, structural, architectudesign and hence new methods of ral, and topographical drawing construction. The machine shop practices is instructed. Along with has also undergone basic changes these basic subjects, the students during the past few years: Greater receive practical training in suraccuracy and new machining prac- veying, and machine and construc-

In the first year of drafting involves laboratory experience. Interesting experiments in elec- This experience is mainly in physplant in Edmonton for making Throughout the entire ciriculum light weight aggregate to approxithe greatest percentage of time is mately one-twenty-fourth full size. spent on the drafting table cover- There are many others, some of ing the basic procedures in mech- which have been designed by the anical topographical, structural, students themselves; a "Recreaarchitectural and electrical draft- tion Centre" housing a separate gymnasium, curling rink and dance hall; a "Swimming Pool", One of today's most important completely enclosed and housing drafting techniques is that of 1200 spectators for the olympicmodel building. By building a sized pool, a \$30,000 "Residential model to exact scale a draftsman House". As a feature of the discan have at hand a three dimen- play are two model bridges. One, sional representation of a particu- the Thaketa Bridge built in Ranlar project, that is both cheap and goon, 933 feet long, made 1/20th easy to build. Lessons can be full size, with a centre drawbridgelearned in the building of the section 121 feet long. The second model which can later be applied is an HO scaled CN bridge over to the building of the actual struc- the Big Berland river in Jasper National Park complete with a As it's "Open House" display working model train which will guide visitors through the display.

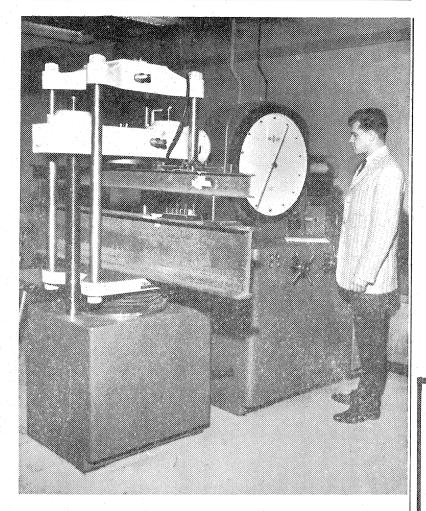
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MATERIALS TECHNOLOGY - Producing Technicians of a High Calibre

gineering materials are taken.

tion, and orystallography will be and ceramics increased. The testing of construc- Other courses the student takes

ing fields:

Research Assistant, Atomic Energy Commission

Steel Manufacturer

Metallurgical Assistant, Tar Sand nical project.

Corrosion Inspector, Petro-Chemi- Technology is unique in Canada, cal Plant.

Extensive Course Coverage

plete mechanical testing laboratory abundant sources of information.

This course is designed to pro- covers destructive testing which duce technicians of a high calibre includes Tensite, Fatigue, Charpy to work in research, inspection, Izod Impact, Torsion, Rockwell, and selection and application of Brinell and Tukon Hardness tests engineering materials. The first as well as microscopic analysis four quarters are designed to give and heat treatment of metals. Nonthe student a broad education in destructive testing covers the use the engineering sciences, the sub- of X-ray, gamma ray (isotope), jects varying from modern physics magnetic particle, dye-penetrants, to welding. In the last two quar- and ultrasonic equipment. The ters, intensified courses in testing, study of Physical Metallurgy ininspection, and properties of en-cludes corrosion equilibrum diagrams, solutions, phase changes, Beginning this fall, the second and diffusion. Theory is suppleyear students will be able to mented by experimentation and specialize in either Materials Test- laboratory work including speciing Technology or Metallurgical men preparation and the use of Technology. The metallurgical the microscope and metallograph. technician will spend more time The study of non-metallics covers dealing with metallurgical theory subjects such as properties, strucand laboratory assignments. Metal-ture, selection and uses of nonlograph (the study of metal struc- metallic engineering materials such ture and fractures), x-ray diffrac- as wood, cement, soils, plastics

tion materials will be deleted are Physics, Math, Statics, (soils, asphalt, and concrete). Strength of Materials, Dynamics, When the students graduate, they Chemistry, English and some inwill probably work in the follow- struction in Welding, Photography, Drafting, and Machine Shop.

In the sixth quarter the students will be required to use their acqu-Supervisor of Heat Treatment, ired knowledge and solve a specific problem from industry as a tech-

Due to the fact that Materials no text books have been written for specific courses. However, ex-The Materials student takes a cellent reference texts are selectwide variety of courses. A com- ed to provide the student with





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Cheminal Technology

are well worth the effort.

The chemical industry is increasing in importance, particularly in Alberta because of the tremendous strides that are being made in the petroleum and natural gas industries. The chemical technician can apply his knowledge to a variety of fields. The greatest need for his services is in process or quality control of a variety of chemical products. His knowledge is also utilized in such places as the universities, Research Councils and the research departments in private industry. Because of the wide field that is open to the chemical technician, his knowledge must be broad.

To qualify for a diploma, a student must successfully complete two years in the Chemical Technology program. Since the main industry in Western Canada involves the manipulation of organic compounds, the two years are naturally slanted in this way.

Theory of some subjects such as polymerization of plastics is covered in detail as well as the actual production of pharmaceuticals such as aspirin and sulfa drugs. With the exception of the universities. N.A.I.T. is the only institute that instructs in the use of high vacuum equipment. We can prepare compounds of high purity at 111/000,000 atmospheric pressure working with temperatures as low as -320° F. A course in scientific glass blowing can be taken as an option. We are also instructed in basic subjects such as advanced mathematics, physics and even English in the form of written and oral communication.

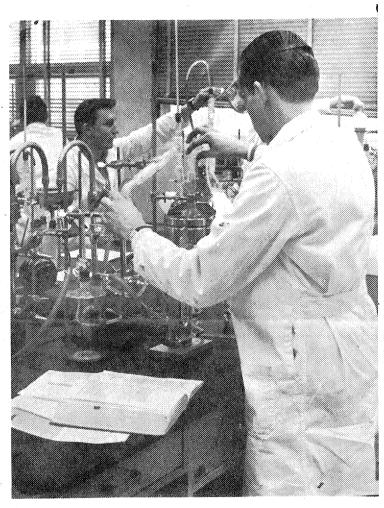
Over \$100,000 In Equipment

As indicated by the surroundings, N.A.I.T. is new, and therefore edu-



spectrophotometer.

Have you ever passed the oil re- cational aids such as laboratory The greatest asset of the chemifineries, the chemical plants, or equipment and library reference cal technician is his practical the science departments of a uni- material are not as plentiful as knowledge of chemistry which enversity and wondered: What do we would like them to be but time ables him to go to private industry they do in there? Have you ever will see our needs fulfilled. The with very little time wasted for seen a synthetic fabric, a plastic equipment in the instrumental an- on-the-job training. Already some cup, a bag of fertilizer and won- alysis laboratory has already of the graduating students have dered: How do they make that? attained a value of about \$100,000; attractive positions with many Obtaining answers to these quest he most expensive pieces of companies ranging from applied tions can result in an interesting machinery being the Infra-red research to food analysis. Again vocation. Pursuing a chemical vo- Spectrophotometer a Saschemeto- this year, we expect that there cation is not easy but the rewards graph and an atomic absorption will be more jobs available than there are graduating students.



Three Great Stores To Serve You

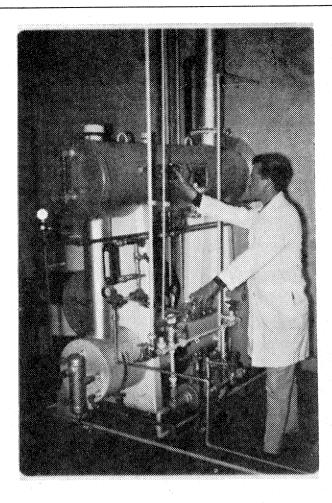
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GAS TECHNOLOGY

The natural gas industry is one wellsite equipment. of the largest and fastest growing in Alberta. Each year the produc- in power plant engineering, comtion and sale of natural gas in- puter programming, instrumentacreases considerably, with the future holding nothing but promise. A large number of trained personnel are needed each year to meet the engineering and technical demands of the industry.

The purpose of the Gas Technology course is to train technoloindustry. Almost all graduates from the course begin work as engineering technologists in the engineering offices of the oil and gas companies of Alberta. The acceptance of the graduates in industry and the validity of the course is each year there are more jobs fill, and they enjoy the highest dynamics, and industrial relations. average starting salary of all graduates from the school.

He may assist in gas plant deis designed to produce gas techniing, and data processing are tween the graduate engineer and and natural gas research projects. the skilled tradesman.

are studied. The major gas course course. deals with design and operation of

The second year includes courses tion, strength of materials, and more advanced mathematics and chemistry. The gas courses include design and operation of basic gas processing equipment, a study of the operation of a complete gas processing plant, and a course in the analysis of natural gas. Later gists for careers in the natural gas in the second year, advanced courses in formal report writing, industrial chemistry, gas instrumentation, gas processing equipment, and a basic course in electronics are studied. Finally, the education of the gas technologist is rounded off with further courses easily verified by the fact that in gas plant operations, materials of construction, formal report writavailable than the graduates can ing, industrial chemistry, thermo-

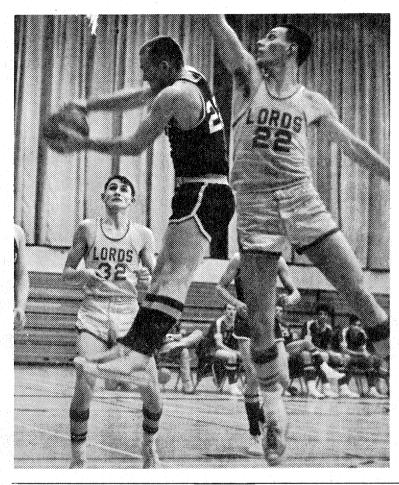
During the two-year training period, approximately 35% of the The work of the graduates as an Gas Technology student's time is engineering technologist is varied. spent in the laboratory and in field work. Practical experiments sign, revision, or operation, in eco- are carried out in chemical analynomic studies, in reservoir studies, sis and reactions, physics, elecor in field operations such as well tricity and electronics, instrumentesting, and many other engineer- tation, and thermodynamics. Pracing projects and duties. The course tical courses in drafting, surveycians who will be of maximum studied. The gas laboratory periods value to their employers. The gas are spent studying gas flow rates, technologist fills a large gap be- wellsite equipment, gas analysis,

During "Open House", the Gas The Gas Technology course be- Technology students plan to disgins with a review of basic mathe- play gas analysis apparatus, and matics, physics, chemistry, and a working model of typical natural English. The specialized study in gas processing equipment as used the field of natural gas begins with in industry. The students will be the basics of geology, reservoir available at all times during Open mechanics, and drilling operations. House to explain the purpose and Later in the first year, statics and operation of the apparatus and to dynamics, formal report writing, answer any questions about the surveying, and organic chemistry display or the Gas Technology

MUCCEY

EDITOR	J. C. GANTNE
Associate Editor	
Features Editor	
Advertising Manager	Les Tomlin
Staff Advisor	

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STUDENT SERVICES

ATHLETICS PROGRAM

SERVICE PROGRAM

Education Service Program.

and the Physical Education Dept. is that our students must be pre- INTER-SCHOOL pared to successfully cope with a ATHLETICS for a happy, healthful life.

as well as recreational.

unique part of the sum total of ticipated in by both men and ter insight into the program.

life experiences which make man women. All first year students enrolled in as we know him. The Department's sonality and in maintaining our all W.I.C.C. athletic supremacy. The philosophy of the Institute democratic way of life.

world of increasing leisure time Students at the Northern Alberta and automation. In order to do this Institute of Technology can avail we are presenting a program which themselves either as spectator or competition. If we can accomplish ber of institutions and geographic- at least one activity. this then we feel that we will be ally represents almost all of the may be included. It will be through ivities offered in the Conference murals. this method only that we will be include Cross-Country; Golf; Vol-

In the short time of its existence the Business and Vocational Tech- philosophy is not elaborate but it N.A.I.T. has enjoyed a great deal nology courses are required to take does plainly state how universally of athletic success and is presently two hours of physical education per important it feels physical educa- the holder of the Lethbridge Herweek. This course is the Physical tion is in developing the total per- ald Trophy which represents over-

INTRAMURAL PROGRAM

The Intramural Program at the Northern Alberta Institute of Technology is a sports recreational program that presents each student the opportunity to compete in phywill provide students with the nec- player to a fairly diversified pro- sical activity. Possibly the motto essary skills, knowledge and ap- gram of athletics. Competition is "A sport for everyone and everypreciation to constructively fill carried out within the Western one in a sport" would be a more their abundant future leisure time. Inter-College Conference, a con- expressive way of indicating the We hope to instill in them the fact ference formed several years ago above statement. N.A.I.T. attempts that continuous recreation is re- to meet the need for competition to present a variety of activities quired to maintain physical fitness at the Junior College level. The so that the program will encourage in a world of high pressure and W.I.C.C. encompasses a large num-participation from each student in

We at N.A.I.T. feel that Intracontributing something of inestim- Province of Alberta. Member murals are for the students and able value in the students' quest schools of the Western Inter- Col- therefore should be run by the lege Conference are presently - students. We have an Intramural There are four major hopes for Lethbridge Junior College; South- Board with membership compiled the future of the program. Firstly ern Alberta Institute of Technology; of first and second year students, aquatics is a prime requisite for a Mount Royal Junior College; The two from each technology. A memprogram of our type thus the need University of Calgary; Olds Agri- ber of the Physical Education staff for a pool. We hope to have one in cultural and Vocational College; acts as staff advisor to the Board. the not too distant future. Secondly Red Deer Junior College; Camrose This Board is directly responsible it is hoped an adaptive program Lutheran College and N.A.I.T. Act- for the smooth operation of Intra-

We hope you will take this able to meet the needs of all stu- leyball; Curling; Basketball; Bad- opportunity while you are visiting dents. If at all possible, the pro- minton; Bowling; Wrestling; Hoc- us at N.A.I.T. to look over and gram will be corrective in nature key and in the near future a fall inquire about our intramural prosport such as Rugger or Soccer. gram. We plan to have displays Physical education is a vital and Most of these activities are par- set up so that you may get a bet-

STUDENT PLACEMENT OFFICE

This office is operated by De- ployer in that the Student Place- and employer must be available to partment of Manpower and Im- ment Office can aid the employer: migration personnel, who provide an organized placement activity. This central handling of the placement function is designed to keep order in the campus recruiting program.

Service to Students

The Placement Office exists primarily to serve the student and can help them in the following

By providing counsel and guidance to help them with their career decisions:

and employing organization;

By working with other advisory Basic Functions of the services on the campus which Student Placement Office complement this service to the student:

Service to Employers

By making their needs and operations known to the students; By enabling them to visit and and institute personnel;

By keeping them informed of changes in educational programs. Service to the Institute

are the faculty, the admin-By maintaing an ample supply istrative staff, and the many others of reading materials on career who come to exchange and obtain information.

Students should know what they have to offer, have adequate information on the overall state of Extensive contacts with the em- the labor market and have availployers are essential as well as able knowledge of specific requirebeing vital to the accomplishments ments of individual companies. of the Placement Officer's duties Companies need be appraised of and responsibilities to the students. the kinds, numbers, and quality of There are advantages to the em- students in the institute. Student of the services provided.

each other at appropriate times, and the premises must be adequate to accommodate orderly discussions between the parties. The interview qualified applicants and major activity of the Placement to make contact with instructors Office centers on providing these

Before the recruiting season gets underway, a considerable amount of planning and scheduling by The Student Placement Office is placement staff is needed. Comnot limited to the confines of the pany interviewing dates must be campus-its functions reach be- reserved, company needs estabyond the academic environment. lished, informative materials from In a sense, it is the crossroads companies obtained and displayed. By providing facilities for stu-where the traffic of students meets Early student registrations and indents to make employer con- that of the employers. Meeting here terviews with Placement Officers where, the officer can get to grips with each individual's potentialities and problems. The officer also arranges and allocates space on the recruiting calendar, based on company needs and supporting written materials and student applications.

The Student Placement Office located at E1123, invites and welcomes enquiries from prospective employers, students, and others who wish to discuss or make use

GUIDANCE AND COUNSELLING

N.A.I.T. GUIDANCE AND COUNSELLING SERVICES

N.A.I.T. Guidance and Counselling Service was established in order to assist students to profit by their education here at the Institute. Various factors that may interfere with the processes of learning are dealt with.

In order to assist the student in self-realization, maximization of education opportunity and acquiring information about his occupational goal the following services are made available:

- 1. A compulsory program for all prospective students. This information can be of considerable assistance in making an occupational choice.
- 2. To provide an information service to students concerning occupations, attitudes and other educational opportunities.
- 3. Assessment and identification of various intellectual, personality and/or socialogical problems which may hamper the student's ability to learn.
- 4. Counselling (therapeutic) services to students who require pre-discharge interviews and re-assessment of goals outside of N.A.I.T., or re-allocation of students in other courses of-
- 5. Establish lines of communication with outside agencies for referrals and information.
- 6. Provide assistance to staff in educational, psychological and guidance matters.

The testing program is presently only open to those students who have made application to the Institute for day courses.

Offices are located in Room T112 in the Tower Building. The phone number is 479-7890. Services are available between the hours of 8:15 p.m. and 4:45 p.m. during the winter months, and between the hours of 8:00 a.m. and 4:30 p.m. during the summer.

MCNALLY LIBRARY



HEALTH SERVICE

Health services are designed to Specific Health Service Offered maintain and improve the health of employees and students so that each individual may function as a productive and self respecting happy worker for a maximum period of time.

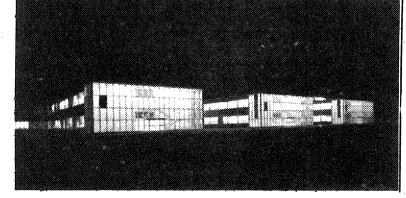
Health programs are designed to fit employees and students into jobs that are within their physical and mental capabilities, to protect them against environmental hazards, and to provide emergency treatment and rehabilitation services when they become sick or injured on the job.

Personnel Involved in Health Services

- 1. Public Health Nurse-- a qualified public health nurse who is responsible for the operation and administration of the health service, including the public health program.
- 2. Nurse-a qualified registered Health Insurance Programs nurse who is responsible for minor treatment and emergency first aid services.
- Stenographer Technician acts as receptionist as well as in the capacity of Nursing Assistant, Assists with emergency first aid as required.
- 4. First Aid Auxiliary Workersa number of qualified St. John Ambulance First-aiders prepared to render immediate temporary assistance to an individual suffering from an accident or sudden illness pending the arrival of the nurse.
- Consultant—a Physician with industrial experience appointed to advise and supervise the overall Health Service.

- 1. The Health Service Office, Room Tower 110, telephone 477-3277 or grey phone 263, is open Monday through Friday from 8:00 a.m., to 5:00
- 2. The Health Service is provided free of charge,
- 3. Minor on-th-job illnesses or injuries will be treated as required and as recommended by the Medical Consultant.
- 4. Health Counselling of employees and students will be offered when requested.
- 5. Individuals requiring assistance at other times during the day should not besitate to call the Nurse at 477-3277 or grey phone 263.
- 6. First Aid coverage is provided from 7:00 - 10:00 p.m. Monday through Thursday in the Industrial Wing A170,

- 1. Industrial Students are covered by Workmen's Compensation Insurance in the event of accidents while on the job.
- 2. Industrial students are covered by Students' Accident Insurance in the event of accident while participating in sports or Gymnastic activities.
- 3. Technology and Business Education students are covered by Students' Accident Insurance in the event of accident while on the job or during sports activity.
- 4. Alberta Vocational Training Students' receive financial assistance for transportation from the Dept. of Education, for injury or illness occurring while on the job.



In the immense complex of N.A.I.T. there is one room that the only key needed to open it is the keen desire of the student to learn the truth and further his knowledge.

The Library shares with the school in the education of its students. The school teaches them to read intelligently, the library supplies them with the reading material.

The Library 5 W's.

- 1. WHO—The McNally Library and staff, anxious to make research material available to all Institute members-student or staff.
- WHAT— Approximately 20,000 volumes and 150 periodicals aimed to supply up-to-date reference material
- 3. WHEN-First used September, 1963 with an average daily attendance of 75 students and now in 1967, an attendance of 750 (ten times greater).
- WHERE—"Believe it or not," the McNally Library is the hub of the wheel radiating out-

ward to the Business, Vocational, Technologies and Apprenticeship sections. We are run without us.

5. WHY—To extend a welcome invitation to all to enter our Open Door and make use of the material found in The Room.

At the risk of sounding quite pedantic the library is a storehouse of knowledge. It is the easy, rapid access to the world's best thoughts. It is for the distribution of mass media. Our books range from the serious technical factual title to the popular paper back thriller. Like the other schools, we too have our 3R's-Reference, Research, Relaxation. Idealistically, in the words of the late Sir Winston Churchill, we try to supply "the tools to finish goals.

in black and white, the aims, ob- to where to find it.

jectives and services of a library in a short newspaper article. Like Koko in the Mikado, we "have a conceited enough to believe little list," and like his partner, that the Institute could not Pooh-Bah, "our object all sublime we shall achieve in time." For instance, on this list some of the other services include:

providing a quiet study atmosphere which often entails "baby-sitting" over 200 students.

-maintaining a "lost and found" department

-coming to the rescue with such items as scissors, staples, paper pnnch and other stationery equipment

-collecting fines-which do act as a deterrent to tardy students who are withholding the privilage of equal distribution from their fellow students.

So,-happy reading to you and the job" of helping students further if you don't know the answer to on their road to their prospective your problem, "ask your Librarian." She may not know either, *It is rather difficult to put down but at least she can direct you

THE REGISTRAR'S DEPARTMENT

year as early as possible so that classes, prospective students and counsellible

the Department so that they might rolling than any previous year. be screened. Each course has a On August 29th and the 31st we different academic requirement, will have over 2,000 students regsome are involved in age require- istering for the first time. The ments or special skills. In instances following week we will have well where the appliacant is not taking over 1,000 students involved in their the correct subjects these people final year of studies at this Inare notified to this effect and stitute. suggestions are made as to where considered that year. As the final books, classrooms, and instructors, marks for the High School year are sent out to the students by the academic records of the stutranscripts must be forwarded to and, of course, we have the sad itate to contact us.

This Department is concerned us for final selection purposes project of helping people who have

Registration for the year 1967-68 no doubt be a heetic event. This All applications are submitted to year we have more students en-

Gently, but firmly we remove the applicant may obtain this, their tuition fees from them and perhaps insufficient time to be orientate them to their studies,

At this point we are involved in

with the distribution of informa- so that all applicants can be not- academic difficulties, people who tion to the High Schools through- ified by the middle of August of withdraw, and others who are not out the Province, revising calendar their acceptance or rejection, and interested in continuing their studinformation and issuing it each the date of commencement of their ies and leave us prior to Christmas. For the student who applies, is accepted, and has the initiative ors have all the information poss- will commence August 29th and will to work at a steady pace; no doubt, these people will succeed; and we wish them every success in their endeavors at this Institute. To those who do not have this initiative even though they may have the academic ability, we find that in many instances they have to learn the hard way, that it requires additional instruction to become successful. Quite a number of these students return to us at a later date to do the type of work that will make them successful.

To the visitors of this Institute we would say that at any time you require information, counselling or the Department of Education, dents throughout the academic year a personal interview, do not hes-

THE ADULT EXTENSION AND EVENING DIVISION AT N.A.I.T.

The emphasis today is on continuing education and one can no longer be content with the body of knowledge he or she originally acquired. Society, with all its complexities, demands more educapete, and in fact, demand opportunities for self-improvement.

ranged programs for those wish- tion of Engineering. ing to continue their education, short intensive day courses, for are urged to check the calendar available in June 1967. industry, and summer school thoroughly for the prerequisites to courses. The program has been enter such courses and consult plication forms, write: organized with the following broad with the Institute in planning their NORTHERN ALBERTA objectives in mind.

1. To assist those already entheir own particular ideas.

2. To provide sufficient basic in- With the opening of the Northible change.

tion. The adult of today must com- ing class programmes, the In- registration in the region of 5,000 stitute will offer courses for stu- applicants. It is estimated that dents enrolled in the Society of in 1967-68 there will be approx-The Institute, in recognizing the Professional Engineers, and for imately 6,000 registered applicants needs of the community has ar- students enrolled in the Associa- and an increase in the number

Students who are interested in Extension Division calendars for providing evening courses, obtaining credit towards a diploma the school year 1967-68 program.

Other courses may be organized Evening Course Division gaged in trade or occupation on request provided we have the by providing them with in- facilities and the instructors, and struction in the technical and a sufficient number of applications theoretical aspects of their are received to make the course work; to bring such students worthwhile. Interested groups up to date with the latest in- should communicate directly with formation and practices in the Director of the Extension Division.

struction to those who wish to ern Alberta Institute of Technolchange to a new occupation ogy in 1962 a limited number of or to prepare for such a poss- courses were offered, but in 1966-67 over 350 Extension Courses will In addition to the regular even- have been offered with a total of courses offered.

For further information and ap-INSTITUTE OF TECHNOLOGY

11762 - 106 Street Edmonton, Alberta

or telephone

Extension Division — 479-3513 Evening Course Information -477-1053.

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PAT CLARKE President, Students' Association

On behalf of the students of the Northern Alberta Institute of Technology I wish to extend a sincere welcome. Our annual "Open House" means a great deal to us . . . it's our chance to show you our multi-million dollar educational complex, the largest Institute of its kind in Canada.

Needless to say we are proud of our Institute and whether you are here simply to look over this giant complex or to register in one of its many courses offered, we hope we can be of assistance to you. The displays arranged by the students are intended to give you an insight of the many programs.

Thank you for your visit. J. Patrick Clarke, President, Students' Association. NORTHTERN ALBERTA INSTITUTE OF TECHNOLOGY STUDENTS ASSOCIATION

N.A.I.T.S.A. PROVIDES MAXIMUM SERVICE

NAITSA's main purpose is to provide a means of communication among students and between the students and staff of N.A.I.T.

From the initial Freshmen Orientation Week activities, and throughout the year's endeavours, NAITSA WORKS TO ASSIST THE STUDENT ON CAMPUS.

Social Activities, such as the Welcome to Campus Bar-B-Q and Hootenany, and the Miss N.A.I.T. Queen Ball, provide a wide and varied choice of themes and areas in which students can let off steam. Because of a Provincial Government regulation, dances at N.A.I.T. (on campus) must be limited to one per month. Each dance held this past year has been a rewarding success to each of the sponsoring technologies.

The highlight of the scheduled dance calender of each year is the Queen's Ball, at which is crowned Miss N.A.I.T. This year's Miss N.A.I.T. is a charming blonde, Cecilia Halwa. Cecilia won out over seven other candidates in a week of fun and frolic. It is most unfortunate that the public does not get an opportunity to see the school spirit and enthusiasm shown during Queen Week on campus.

School spirit is most difficult to maintain in an institution of N.A.I.T.'s size. But through special activities and groups that come into the institute to entertain, as well as the NAITSA sponsored clubs, rewards made to those people who devote much of their already taxed time to NAITSA

activities, are presented on Awards Night, (usually in April).

N.A.I.T. Radio is strictly an "on campus" radio station—complete in itself. NAITSA is proud of the excellent equipment obtained for the club. This equipment enables N.A.I.T. Radio to provide the students with a means of communication and enjoyment. N.A.I.T. Radio is a club whose membership is not restricted to any member of any technology. Each year more members are required, and anyone interested is urged to join or to inquire as to the club's operations.

The Northern Torch, N.A.I.T.'s Yearbook, is artistically designed to portray a reminiscent look back at the year's activities. The quality of this NAITSA sponsored publication, leaves little room for improvement. The yearbook offices are a constant hive of activity, but more students from a

greater variety of technologies are needed. The Nugget, N.A.I.T.'s newspaper, is NAITSA's prime medium of presenting information to students. The Nugget has shown dramatic growth, as in only four years it has grown from a ditto machined piece of paper to the present size and format. NAITSA's Nugget has drawn praise by many who have read it, not only in Canada but as far away as Moscow, U.S.S.R. (It is not because the paper has any leftist attitudes, but because a delegation of touring education officials from Russia were suitably impressed by the publication, that they asked to take copies of the Nugget back to Russia with them.)



STUDENT COUNCIL IN ACTION

ARETEAN SOCIETY — or Greek Girls

Not really . . . but the Aretean Society on our N.A.I.T. campus has adopted the Greek theme for their association. The Society gets its name from the Greek word "Aretean" meaning "all round excellence," which the Society Council felt fully described our purpose in starting such an organization.

PURPOSE: The objectives of the Aretean Society are to form an organiza-

- 1. To increase participation of women in the athletic pro-
- grams of N.A.I.T.

social life while at N.A.I.T.

3. To encourage a friendly relationship and successful communications among technologists.

ORGANIZATION:

The Society is comprised of four "houses," and each girl is placed in a house according to their last name. A house president administers each house and is responsible for that house to the Society Council. These four houses compete in social and athletice activities during the year.

ACCOMPLISHMENTS:

have centered around intra-mural sports. The girls participate actively in our program of basketball, volleyball, table tennis, badminton, archery, curling, and bowling.

2. Each house president was given a month in which to promote her house.

3. The Annual Toga Party is the climax to the year's operation. This one social function brings all the girls together for one get-together before the final exams.

The Aretean Society has done much to help the badly outnumbered girls on campus (about 10 fellows to every 1 girl). By providing a means of exercise, communication, and comradship among the girls at N.A.I.T., the Society looks forward to next year with eager anticipation.

THORNS AMONG ROSES

To create more fan support at W.I.C.C. athletic events the Challenge Cup was up for grabs at this basketball game. Pictured are Miss NAIT, Miss Eskimo, and "thoms" from Bus. Admin., Electronics, Club Culinaire, and Distributive.





DENTAL LABRATORY TECHNOLOGY

of dentistry. New techniques have been developed and better materials used in laboratory procedures. These have contributed to an improved type of dental service.

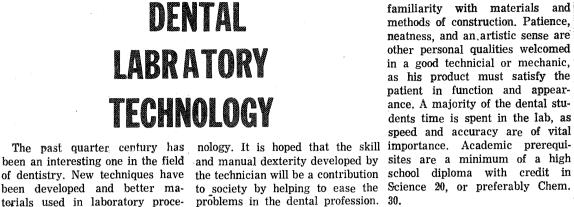
Part of the dental renaissance has been due to a small group of dedicated men in practice who have felt that there were better. and more efficient ways of doing the everyday laboratory tasks. These men are the humble Dental Technicians.

Course of Study

problems in the dental profession. 30. Occupational Opportunities

ing demand for qualified Dental sics, Chemistry, Anatomy, Eng-Technicians in various sectors of lish, Bacteriology, Mathematics, the community.

Technology course consists of able methods of gaining knowledge training in the fabrication and re- of the Dental work. The students pair of full dentures, partial den- of Dental Lab. Tech. along with tures, crowns and bridges, and the Dental Assistants have formed orthodontic appliances. The great- a Dental Club in order to have The Northern Alberta Institute est requirement for success in Den- representation and contact with of Technology offers a two year tal Lab. Tech, is manual dexter- the Students Council. The club is course in dental laboratory tech- ity coupled with the acquisition of an educational and social club



Apart from laboratory proce-Today there is an ever increas- dures, there are lectures in Phyand Dental Materials. Films and The N.A.I.T. Dental Laboratory visiting lecturers are other enjoywhich competes with other technologies in intra-mural contests.

The two-year course is followed by a period of apprenticeship. When apprenticeship terminates the student is classified as a Dental Technician or a Dental Mechanic, having attained a mastery of dental restoration and is qualified to practice his craft.

Graduate wages of Dental Technology are not at the level desired, but with the increasing standard of work it is hoped this will soon change. The Dental Mechanics Association has been very helpful in the past with employment of students. With co-operation from dentists and the Dental Tech. Assoc. the technologists can hope for similar assistance. Employment may be gained in a wide variety of institutions ranging from a commercial lab to your own business.



TECHNICAL SKILLS ESSENTIAL RADIOLOGICAL TECHNOLOGY

nician must also be well trained drugs and chemicals are being and conscientious about small dein the art and science of caring used with increasing frequency for tails. Neatness of personal appearfor the sick. Patience, sympathy, some conditions. skill and accuracy.

fracture or dislocation: it may be ment which has been given. taking films in the operating room Require?

ried out by means of X-ray, radio-

The Medical Radiological Tech- active cobalt and caesium mach- pleasing personality along with the

tion must be linked with technical responsibilities lie in the day to accepted code of professional ethday application of the treatment ics. In addition, the technician lent). Preference may be given to The radiographic technician's prescribed by the radiotherapist, should be of an inquiring mind and those who have a high school working day can be very varied, and in assisting in caring for the progressive in order to keep up to Perhaps the procedure may be to general health and welfare of the date with the details of the many take a simple radiograph of an patient as well as the maintenance and constant new developments in arm or leg to detect a suspected of accurate records of any treat-technique and equipment.

Modern radiation therapy is car- abled, this vocation calls for a and split second timing are vital.

nician is a person who is trained ines, radium and the radioactive qualities of patience, sympathy, in the use of X-ray and other io- isotopes of tantulum, gold, stro- courtesy and thoughtfulness of nizing radiations as applied to the nium, iodine and phosphorus. In others and their feelings. The fudiagnosis and treatment of injury addition to these sources or ioniz- ture technician must be a person and disease. The radiological tech- ing radiations many complex who is meticulous in work habits ance is of highest importance, as tolerance and powers of observa- The radiotherapeutic technician's is a willingness to abide by the

cause of kidney or gall bladder to X-ray someone who has been What Personal Qualities Does the trouble, or whether a stomach ulinjured in an accident: it may be Medical Radiological Technologist cer is the reason for the patient's pain and indigestion: it may be in during a surgical procedure to help The technologist must have a performing the more specialized guide the hand of the surgeon - strong sense of responsibility and examinations where members of speed and accuracy are mandatory a high degree of integrity, allied several hospital departments comhere: it may be in assisting the to the ability to work quickly and bine their skills to examine the radiologist in carrying out routine accurately. Because he is constant- spinal cord, brain, blood vessels examinations to determine the ly working with the sick and dis- or heart -- here perfect teamwork

DENTAL **ASSISTANTS**

the dentist's

Helping Hand

Who is the dentist's helping hand? Who makes his job easier and saves him time? The Dental Assistant that's who!

The modern dental assistant is a valuable member of the dental health team. She works along with the dentist performing tasks which will save him time and therefore, increase the number of patients he can handle in his office.

Many people think that the work of a dental assistant is very routine, but her work consists of manual skills, technical knowledge and clinical experience which make her indispensable to the dentist.

The dental assistant's duties vary more than any other personnel in the dentist's office, that is besides the dentist himself of course. Some of the duties she will be doing

- 1. Sterilization of instruments and materials.
- 2. General care of instruments and equipment.
- 3. Processing of x-rays.
- 4. Maintainance of patient records and office supplies.
- 5. Business correspondence and management of child and adult patients.

In addition to these duties she is expected to conduct herself, at all times, with a high degree of professional decorum fitting to her responsible position in the profession of dentistry.

There are many opportunities for graduate dental assistants. Dentistry is a profession which is continually growing in knowledge and the assistant can help the dentist incorporate new methods into his practice through patient education.

The dental assistant is the first person a patient sees when he comes into the office. Therefore, she must be poised and also present an atmosphere of efficiency. 6. Material used in the dental She should also be neat in her appearance and the office should appear well managed. Nothing makes people feel more relaxed than if they are greeted with a warm smile and by name.

Applicants must have a minimum of 67 high school credits including a "B" standing in any grade eleven Math, Science, or Biology 32 and English (or equiva-

diploma or are eighteen years of

Applications should be made in February and should include the person's academic standing. The people who are being considered may have to come for an interview during the months of April and May. This interview is basically guidance. This is done so that when making the final decision the interest vou have shown can be taken into consideration. The applicant is notified of her acceptance during the month of June.

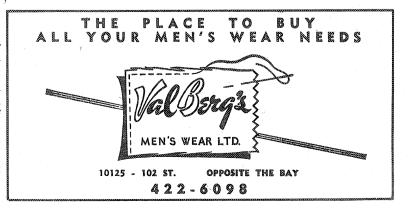
Classes begin during the first week of September and the applicant is required to have a certificate of their medical health, current dental health and a record of innoculations to date. Forms for this purpose will be included with the letter of acceptance.

During the third quarter the students enter the practical training of the course. They begin their extern at the University Dental Clinic in March and remain there for the month. After this has been completed they go into private practice for six weeks in Edmonton or Calgary. Upon completion of this they return fo rgraduation.

During Open House the present dental assisting class will have displays set up, to show the public what is offered in the course. Some of the displays to be included are:

- 1. Mechanical and Manual Toothbrushes and the benefits of fluoride.
- 2. Display of practice in assisting and related duties.
- Illustrations of oral anatomy and diseases of the mouth.
- 4. Nutrition in dentistry for children.
- Receptionist in office management. The student will act as a guide and informist.
- office and laboratory. Uses will be demonstrated.

Any persons interested in the course or wanting to apply can arrange for an interview with one of the course instructors by contacting the receptionist available in the display room. Instructors, Mrs. Sitko and Mrs. Cunningham will be very pleased to answer any questions that you may have at



GOMPUTER TECH.

MEDICAL LABORATORY

Delving back in time we find that medical technology is not such an old profession. It has only been since the advancement of medicine in this century that the medical technologist has come into existance. Originally the physician depended on his five senses to diagnose disease. But by the beginning of the 20th century, with the introduction of more precise methods and the increase of instruments used to diagnose disease, it became apparent that the physician alone could not cope with all' the work. Consequently there arose a need for assistants. The medical technologist helps to provide this assistance. He or she, applies practical and scientific knowledge to the performance of laboratory tests designed to aid in diagnosing

The work of the technologist is roughly divided into five phases:

- 1. Collection of specimens to be tested.
- 2. Preparation for test.
- 3. Learning to operate the various instruments used -at this stage you feel more like a mechanic than a lab-tech!
- 4. Studying methods and their principles.
- Recording the results of the test.

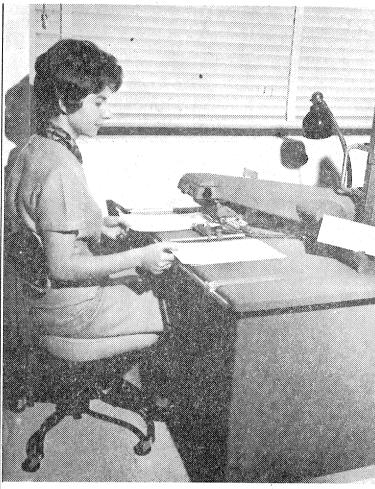
The major areas of learning are laboratory orientation, microbiology, serology, haemotology, immanohamotology, urinalysis, histology and clinical chemistry. Sound like Greek to you? I'll let you in on a little secret, but don't tell the instructors — it still is to me too!

During "Open House" displays will be set up in all these areas of learning in order that you may also get an understanding of what goes on in the classrooms for the first year of training.

The second year of training is spent in a sponsoring hospital where theoretical knowledge is put to practical use. This work will make up for the hours of classroom lectures though at times I'm sure you'll be wishing you were sitting down again. Seriously though the hospital training is/ truly enlightening and rewarding; not only from the satisfaction achieved by helping the patient but you also get paid by the hospital!

After certification you can specialize. Work is not restricted to hospitals either, you can also work in clinics, Public Health Labs, or in pharmaceutical, governmental or vet labs. Starting salaries are around \$350 a month and there is an increasing demand for medical lab technologists.

Qualifications are Senior Matriculation with an overall average of 60% with a preference for Biology 30, although Physics or Biology 32 are also accepted. Throughout the course constant studying and reviewing are necessary but as they say, "In the end it's worth it." Anyone interested should apply to the hospital in which they wish to train as students as they aren't accepted by the Institute until they are accepted by a hospital.



BANKING

The World Wide Business

degree of specialization in the the progress of the Canadian bank-Banking and Finance fields, ing system since before Confedetrained people are needed who can ration, to the present day. The stustep into any Bank, Treasury dent is led through the conception Branch, Corporation, Finance or and development of Canada's eight a clerk-typist, salesman, person-varying economic and banking nel, foreign exchange, teller or ac- trends. counting position.

tioned aims, Banking Technology letters, reports and essays. which allows the men to advance as little as ten months. steadily into an executive position. It is interesting to note the op- an interesting schedule of courses,

gram are designed especially for of Banking and Finance. These qualified instructors and teachers financial training. Such courses as people can fit easily into any finan- from various financial fields. Fundamentals of Business, Mathe- cial department whether it be the Do we interest you? Come and matics, present new and improved accounting, loan, savings accounts, see us during Open House. We are methods of preforming the four current accounts, credit and col- on the fourth door of the Tower

What does your banker do for ods of computing interest on inyou? To many people today, their stallments, numerous types of banker is a friend. The modern loans, on notes and other monetary banker shares the triumphs and documents. Introduction to Busitragedies of people in all walks of ness gives a good look into the life. This certainly makes for an methods used in organizing and interesting and fulfilling career. managing business. This takes into Banking is big business and consideration the forms of comworld wide, and could be easily panies and current economic called the thermometer of the eco-trends. Introduction to Banking, nomic world. Because of the high another interesting course, outlines Trust Company and fit easily into chartered banks according to the

A three-semester course in Ac-Banking Technology was set up counting gives the student a basic to accommodate this need. This knowledge in the fundamentals of course enables its graduates to ad- business accounting and bookkeepvance quickly in the specialized ing. Typewriting is another twoareas mentioned above. The pro-semester subject, giving complete gram provides a basic business instruction into the construction of background for any financial business letters, memos, manucareer, although it is designed to scripts and various other business accounts receivable department, to familiarize the student with the documents. An interesting course name but a few. Because businessbank and its operational routine. In in College English reviews the men recognize our course, the order to achieve the above men-rudements of grammar, business

is divided into two programs: A complete list of courses can rapid accumulation of business Program A, of ten months durabe found in the N.A.I.T. calendar, knowledge. If the desire to succeed tion, which enable the women each one interesting and informa- is there, business is willing to to advance quickly into any restive. With a bit of diligence and open its doors for you. ponsible financial position and; study, two or even three years of What does Banking and Fi-Program B, of two years duration, bank training can be acquired in nance technology have to offer

The subjects taught in each pro-portunities available to graduates a realistic Banking laboratory, and math operations and various meth- lections, foreign exchange or Building.

of the earth, cutting through testing. mountains, diverting rivers, conair above. vice to help man think, to per- tistics. form calculations faster and more tervention by man.

of beads.

man's muscle power.

tent computer programmers, that and Introduction to Business. is, trained personnel able to inmeans he must discipline his studied in the second year. and work becomes productive.

The course takes two years to of studies. complete and may be divided into

In today's world of machines, three rough divisions. These are the giant oceanliner, the rockets courses related to computers, to in space, the monster-sized ma- mathematics, and to business.

chines of the construction indus-The computer courses are detry, all bear scant resemblance to signed to give the student not only the lowly wheel. Even so, today's a familiarity with programming digital computer with its complex but the basic foundation behind maze, of wires and lights and computer logic and concepts. And equipment looks scarcely like the so the gauntlet is run: an introducancient abacus with its strings tion and history of computers; machine and assembler program-Yet, the analogy is apt. For the ming languages; compiler languwheel is a device, invented by ages, FORTRAN, COBOL, PLI; early man, to enable him to move techniques of tape units and ranobjects that he previously could dom access devices; systems study not. Thus it was an invention de- and design; compilers; translators; signed to increase his ability to do monitors and many more.

In conjunction with computer work. From this small beginning man has progressed, has increased lectures there is a lab averaging his power so that machines of to- at least an hour a day. It is priday are literally changing the face marily for program writing and

There are five quarters of quering the land, the sea, and the mathematics. Two are devoted to computer math, one to business Similarly the abacus was a de- math, and two to the study of sta-

The business courses cover a accurately. Yet, today's computer broad range of studies. Accountperforms calculations at the speed ing is taken for six quarters. The of light, can store thousands, even first year consists of general millions, of characters, and most accounting and the second emphaimportant can be instructed to do sizes cost accounting. Graduate a series of operations without in- students interested in an accounting degree may write the Certified The electronic digital computer General Accountant's first year exis a device for storing, comparing, aminations. If successful they will processing or usefully modifying enter the second year of a five knowledge. And with its capabili- year course which is studied by ties it enlarges human brainpower correspondence from the Univerjust as other machines enlarge sty of British Columbia. Further course exemptions are pending. Computer Technology at N.A.I.T. English courses are taken for three Computer Technology is an in-quarters. The remaining are one teresting and challenging course. quarter courses such as Business Its objective is to turn our compe- Procedures, Oral Communications.

Prerequisites include Math 30, struct any computer to perform English 30, and passing a series of usefully. A programmer must pre- aptitude tests. Also the computsent to the computer a set of minu- ing staff highly recommends that tely detailed instructions to per-undergraduates obtain employment form each step in the solution of in a related area of data processa problem and any alternative ing. The added experience gives steps needed when restrictions to students a stronger background the problem are broken. This and better insight to the concepts

thinking so that he functions with All interested persons, and esclarity and precision. He must be pecially prospective students (or able to define the problem. He employers), are invited to see the must reach an accurate solution displays shown in the Data Centre, that is both practical and flexible. Room T 312 in the Tower Building. And, he must be able to put his Students will be on hand to answer solution to use so his knowledge any questions about the equipment on display or about their course

graduate is assured of a higher wage, faster advancement and a

you? Among other things, it offers



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SECRETARIAL

Secretarial Technology offers a discussed at some length. trative assistants.

theoretical but also in the prac- writer, and duplicating equipment. tical aspects of their field. The In today's technological society, student receives the benefit of this the volume of data to be processed knowledge and experience while in a business has increased to the studying under a highly progres- extent that it is no longer feasible sive stem and working with an to process data entirely manually. extensive array of modern equip- The most common method is

students capable of entering a po- machines and calculators, which sition with a negligible adjust- the student will operate. A fascinment period, a board of advisors ating course, Introduction to Data from business together with ex- Processing, acquaints the secreperienced instructors have selected tary with the basic concepts of the an extremely comprehensive time- punched-card and electronic equip-

The First Year

As the background of most stu- card equipment. dents in business education sall jects ranges from zero to years, special adjustments have student will have the opportunity to operate both manual and electric typewriters; in shorthand, an impressive shorthand lab is avail- any profession and in oral comable for speed building.

the pupil's skills through realistic speech and delivering one correctoffice situations; business English ly in invaluable training for a ensures correct grammatical transcription and composition.

Through an introduction to busitions and the workings of credit, which the student has an opporand Credit and Collections.

Not only should a secretary be adept at her skills and knowledgeable in her profession, but she should also cultivate a charming appearance. Realizing each girl possesses innate characteristics for good grooming and proper etiquette, our program provides a 50-hour personal improvement course. During these classes, lectures in proper application of make-up, hair care, wardrobe planning — to name a few — are covered by a professional model. Why A Second Year?

The first year builds a solid framework from which the secondyear student may continue to more advanced and specialized training.

Application of typing is now emphasized through project work in medical and legal typing. As the theory in shorthand has now been covered, the shorthand writers may turn their attention to the building of speed toward a desired goal of 140 w.a.m.

The majority of legal transactions which flow through an office are concerned with private law. The business law course encompasses the major areas which includes the law of the contract and of real property which are

TECHNOLOGY

challenging future for prospective Responsibility of the individual students who desire a career as is an objective of this program. executive secretaries or adminis- Office management and personal principles and policies prepares a The purpose of this program is potential executive secretary or to develop a high level of techni- administrative assistant for a cal skills, to acquire a sound managerial or supervisory role. general knowledge of business, Not only will the secretary be resand to cultivate good human rela- ponsible for personnel and organization of the office, but she will In business there is an ever-in- quite likely have to operate comcreasing demand for men and wo- mon business machines such as men well versed not only in the the dictaphone, executive type-

through the use of business mach-To produce well-rounded, flexible ines such as the various adding ment. A Unit-Record Lab is used to demonstrate various punched-

Also, to succeed in competitive business, knowledge of the interrelated factors affecting an enterbeen implemented. In typing, the prise is vital. Economic geography and sociology attempt to fulfill this need.

Self-expression is a requisite in munications the student learns ex-Secretarial procedures utilize actly this. The art of preparing a secretary who will be in constant contact with the public.

To obtain maximum performness course, the secretary be- ance and satisfaction in an office, comes familiar with general busi- an understanding of the motivation ness practices. The foundation of and behavior of the individual is most firms is its economic opera- essential. Through an interesting course in psychology, the student gains an insight into human relatunity to learn through Accounting tionships. This, in turn, enables a senior secretary to deal more effectively with those she is associated with or is responsible for. Extra Activities

> School spirit among the students is high. Last year SECRETARIAL won the Challenge Cup from another technology by staging a Penny Drive.

For two consecutive years, students from this technology have won the title of Miss NAIT. And The Future?

Upon successful completion of this difficult but extremely extensive and high-calibre program, the graduate will receive an Applied Arts Diploma. A starting salary of \$300 a month would not be unreasonable.

Opportunities in this field are excellent as there is a shortage of and specialized instruction - as well-trained secretaries. Employment is not necessarily limited to this continent. Two present graduates are contemplating a teaching position in Africa with CUSO (Canadian Universities Students Overseas) while another hopes to obtain a working visa in Britain.

The program of the Secretarial Technology and the facilities at NAIT offer the potential executive secretary or administrative assistaffect a business enterprise. This ant the fulfillment of her ambi-

WHY DISTRIBUTIVE TECH.

tive Technology is like getting in tography, Art and Public Relations on the fifth floor, not the ground floor of the business world. With Distributive you ride the elevator to the top, not climb the stairs. Yes, the course offers a good background for the young man or woman with aspirations of reaching a top executive level.

Distributive offers a thorough knowledge of what is involved in business. A varied program to train those who will be in the process of distributing goods from manufacturers to consumers.

Distributive Technology was first offered in 1964. Now, under the guidance of Mr. Baird the course runs smoothly from the teaching of subjects to the participation in social functions.

One of the better known clubs in the school, Distributive participates in school activities as well as planning many of their own. The club is run by an elected executive consisting of:

President — Lorne Holladay Vice-Pres. — Jim Stangier Secretary — Linda Schultz Social Convenor — Don Walker Treasurer — Per Jorgensen Press Agent - Ken Tomlin

Queen Week, Open House, and sport activities are a few of the functions enthusiastically joined in by the club.

In addition to the main core you receive courses applicable to the option you choose. If Advertising is chosen you take Advertising courses as well as creative labs. In Salesmanship you learn of the various facets of sales in the specialized course. In Merchandising courses in retail management are taken as well as retailing

Also in the second year practical on-the-job training is required in Salesmanship and Merchandising. While in Advertising the time is spent on Labs. This time spent on jobs gives the students a more realistic view of the positions they will secure after graduation. The Advertising lab time is spent designing advertisements as well

Why? Because taking Distribu- as receiving instruction on Phowhich give the student a varied knowledge of the advertising field.

With the thorough training received in Distributive Technology jobs are never scarce for the graduates of the course. The courses and the on-the-job training gives our graduates a more mature approach to their future positions. Distributive Technology, a course to prepare young men and women to join the vast complexity of the business world!

Even though Distributive is one of the more enjoyable courses socially there is a lot of work involved in receiving the essential training for the future. In the twoyear training you receive a basic knowledge of the various fields of distribution.

In the second year, students may choose the option of their choice to specializez in. A choice of Advertising, Professional Salesmanship, or Merchandising Administration. In Salesmanship a pattern is offered to improve skills and techniques so the student can apply the knowledge to any sales position in business. In Merchandising they are taught the principles and practices of retailing from a theoretical and practical approach. And in Advertising the students are given a knowledge of all that is involved in this fascinating field.

All Wool Slax Reg. \$21.95 N.A.I.T. Open House Special \$14.95 with I.D. Card Ace Men's Wear (Next to Ciro's on Jasper)

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"CHECK AND DOUBLE CHECK"

BUSINESS ADMINISTRATION

Business Administration course. The Business Administration Division avoids the womb-like atmosphere found in many business ments may at the discretion of the Office Administration schools by presenting a realistic, practical business course. The at- Accountants be allowed to write fold purpose. Firstly, it is designed mosphere of the market place, the second year exams. (The Cer- purposely broad in nature for stuhigh-in-the-clouds, forward-looking matriculation to write the second vision of office functions, office thought in the course content, but year exams.) it is tempered by a businesslike, profit conscious approach.

Technology offers many of the advantages of a small university. Classes are relatively small and the instructors are often able to provide individual assistance. The student is recognized as a student come a specialist. The manager to enroll in the second year of and not merely as another num-

Prospective students should be aware that although full matriculation is not required for entrance, those with a matriculation pattern background are more likely to be successful than those with a general or business diploma.

A student with a solid base in mathematics, English composition, the Social Sciences, and a diversified outside reading background, a company, graduates may expect the most out of the two or three will likely find his business studies to work in a supervisory position. year programs. both rewarding and self-satisfying. It should be stressed that the In many respects, Business Ada proven business background.

student specializes in his second start his own business venture. year in one of the following majors Credit Administration in which emphasis is placed on

Accounting

specialize in accounting, the majority of graduates will find employment in cost control, controller, and general accounting positions. A student can also branch out in other areas such as sales take on-the-job training in a credit dially invited to visit the display. and administration. Opportunities

the available supply.

secondary school academic require- ing, and in co'lection procedures. Society of Registered Industrial Office Administration has a two-

The Northern Alberta Institute of with the accounting department at areas related to electronic data N.A.I.T. or the accounting associ- processing as well. ations.

Business Management

person who does not wish to be- cretion of the Department Head, in today's business community Computing Technology. Upon sucson, but rather someone who is year will also receive an applied business. An ability, whether de-nology. veloped or natural, to make deci- The instructors in the Business sions, to think, to motivate people Administration department are option.

credit administration. This option course. is designed to give an overall view Business Administration has a For the students who wish to of credit and how it relates to unique theme for their 1967 Open other aspects of business. Students House weekend display. It is enthe various types of credit.

the requirement that the student Tower Building. Everyone is cor-

The Northern Alberta Institute for the graduate are excellent and department of an Edmonton firm. of Technology offers a unique the demand for graduates exceeds Graduates will work in Industrial or Consumer credit, in the areas A graduate who possesses the of credit granting, credit reports

rather than that of the "Ivory tified General Accountants, will dents who want to arrange a protower", predominates. There is a allow a graduate who possesses gram in office organization, superproblems, office management, Persons in doubt about their aca- method analyst, system assistants, demic qualifications should check etc. The student develops skills in

> Secondly, a successful graduate of the Office Administration op-This option is designed for the tion may be permitted, at the disshould not be a specialized per-cessful completion of his third able to deal with all aspects of arts diploma in Computing Tech-

> to work together to a predeter- well qualified. The combination of mined end, will be the factors that experience and education have "make or break" a student in this made the instructors in Business Administration excellent guides for After a period of orientation with the student, so that he may receive

The younger applicants are re- graduate should be prepared to ministration may be the most quired to meet rigid entrance work in all the phases of business, difficult course at N.A.I.T. The standards. Some of these entrance such as marketing, finance, pro-student has to develop personarequirements may be waived for duction, etc., before he can hope litywise, which may be the hardan older, more mature person with to achieve an administrative posi- est, while at the same time he has tion. This option is also recom- to absorb a vast amount of essen-After a common first year, a mended for anyone wishing to tial business knowledge. The "flash-in-the-pan" type will not be successful here. The person who This is the first institution in has a combination of ability, drive, Accounting, Statistics, Data Pro- Canada at this level of education set objectives, and endurance will cessing and Administration Cour- to offer specialized training in receive the most benefit from the

> will take specialized ccurses in titled "Salute to the Transportation Industry". The display will be A unique feature of this option is arranged in Room T 305 of the



FOOD SERVICES COMMERCIAL COOKING

of courses have been developed.

They are: Commercial Cooking

This is a two-year course. The of the food worker. objectives of this course are to deof cooking and serving foods.

the growing need for trained per- Employment Opportunities sonnel in this vital industry. Stutery of the practical skills is trained in quantity cooking. achieved by realistic and practical Starting salaries vary depending formation is taught in the class- and other factors.

acquaints the student with the mated to cost \$150 for both years. basics of Commercial Cooking, the

The Food Service Department at second year broadens and deepens the Northern Alberta Institute of the knowledge and skills of the Technology has a dual function. first year. Emphasis is placed on First the Food Service Depart- the culinary arts. Advanced cookment trains young men and wo- ing, ice carving, fat sculpturing, men for the expanding field of pulled sugar work, chocolate work Food Servicing. Secondly, the and marzipan, are some of the Food Service Department provides areas covered in the second year. catering as a professional service Professional responsibilities are to the Institute as a whole. To also emphasized in the second effectively train students and at year. The student is encouraged to the same time provide suitable assess himself as a professional service to the Institute, a number food worker. He is trained to realize that good work habits and standards of cleanliness have an important bearing on the quality

Since catering is a service to velop the students appreciation people, the prospective student and understanding of sound food should have certain personality preparation methods. This entails traits. He should be even tempered a knowledge of the physical fa- and have a sunny disposition. He cilities within a food preparation must be able to work under presareas as well as various methods sure, communicate effectively, and bear in mind that food catering The course is designed to fill means evening and weekend work.

Jobs are many and varied: resdents are taught large quantity taurants, hotel dining rooms, defood production, meat cutting, partment stores, coffee shops, pastry and dessert baking, salad clubs, hospitals, institutions, minmaking, soup and vegetable cook- ing and logging camps, and caterery and the service of food. Mas- ing firms are all looking for people

work in the kitchen while the on experience, personality, willingcomprehension and technical in-ness to cook, amount of training

The tuition fee is \$69 per year While the first year of the course and supplies and books are esti-



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- CLASS PARTIES
- * GRADUATIONS
- * FRIDAY AFTERNOON GET TOGETHERS.



FOOD SERVICES COMMERCIAL BAKING

A very important part of the ity in the industry. Food Service department is the Bakery section. It is in this area that training is given in all aspects of Baking. Before going any further it might be well to examine this word "Baking" and find out just what it includes. As used by a baker it covers the making of all types of bread - white, whole wheat, rye, fruit breads as well as buns, rolls, and Danish pastries in fact everything which uses yeast to leaven it. Besides this the baker makes cakes in every variety, pies and their fillings, pastries and cookies of all kinds, makes the Provincial Department of Labour. fillings and icings to go in and on them and applies the decoration.

and business management.

Open House

yourself! For Open House days the theory and related knowledge nec-Bakery - situated just to the essary to reinforce his practical North of the main cafeteria down work. the stairs - has a big display of mouth watering goods showing part method of entry to the trade can of the wide range of items that be obtained from the local Appren-

In the main bakery the stu- Bakery here. dents will be in action show-

are offered in this section.

1. A two-year program in Commercial Baking

competent bakers having a sound section occupies. Consisting of two background of practical, theoreti- large bakeries and laboratory cal, and experimental baking with classroom it is fitted with the latrelated mathematics and business est of bakery equipment and maknowledge enabling them to be em- chines. ployed in positions of responsibil-

Some of the subjects covered are: Practical Bread, Cake, Pastry &

Cookie Making Baking Theory & Practice Sanitation Bakery Science Trade Calculations **Business Organization** Merchandising

Full information about the course can be obtained from the Bakery Section or from the Registrar.

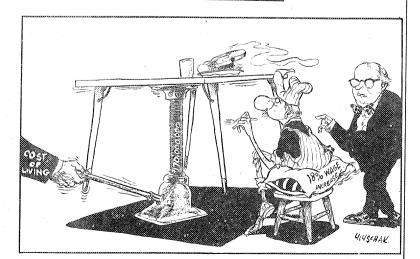
2. The second program is the Apprentice Baker training scheme offered in conjunction with the

Here the student obtains a position with a baker o fhis choice and In addition to these direct skills becomes registered as an apprenthere are included related sub- tice. Training is done while on the jects, quality control, stock con- job (and while earning!) in this trol, costings, selling and display practical situation. Each year of the 3 years this training takes, the student attends an 8-week course But why not come and see for in the Bakery section obtaining

Further information about this the modern baker can produce. ticeship Board office or from the

Besides these two major proing how they go about their work grams there are a number of short and what is entailed in their train- courses in various bakery subjects offered in the evenings. This pro-Two main training programmes vides an opportunity for Bakery workers to increase or renew their knowledge, enabling them to keep up with recent developments.

The prime objective of this Facilities for these programs are course is to graduate qualified and provided in the 4500 sq. ft. this



WAITER WAITRESS TRAINING AT NAIT.

In most eating establishments the responsibility for pleasant dining finally comes to rest on the WAITER or WAITRESS. They are the ones who can really make a guest feel welcome - wanted Their personality and attitude will either bring the customer for another meal or send him away for good.

Food Sales and Service training is available on a 10-week training basis. The prerequisites for young men and women wanting to become Waiters or Waitresses are: age 17, and a good command of the English language. It is also essential that the student have a pleasant personality, ability to get along well with others and a sincere desire to please.

Employment is available in cities, in towns, at summer resorts, at winter resorts and wherever fine eating places are found.

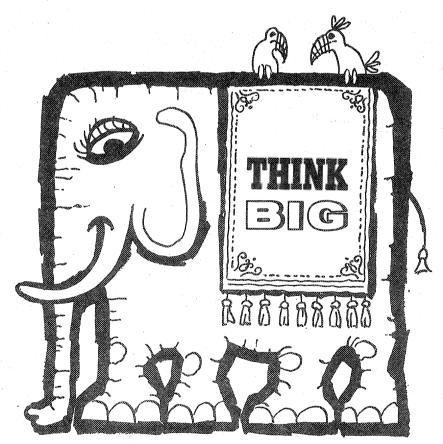
The specific objectives of the Food Sales course are:

- 1. To teach the accepted procedure in serving food.
- 2. To teach the correct way of setting a table.
- 3. To teach the different types of service.



A student puts into practice what she has learned in the classroom.

- To develop correct relations be- 5. To acquaint the student with tween the Waiter or Waitress and guest he or she serves.
 - the different foods and dishes found on the menu.



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Food For Thought . . . DIETARÝ SERVICE

What is a Dietary Technician? instruction in many of the above She is a person trained to assist subjects as well as Dietary office registered Dietitians and also procedures and food purchasing. assume a major portion of the resa Dietitian.

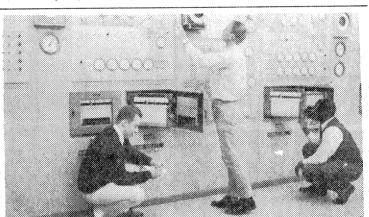
ary student must successfully com- as excellent reference material plete a two-year course of studies. after the student has graduated The course starts in September and is out working. with classes until May. Beginning All students registered in Dietin May the student gains practical ary Service Technology are reexperience for eight to ten months quired to wear white uniforms, by training in the Dietary Depart- white shoes and white stockings. ment of a hospital or restaurant Upon graduating the Dietary Techthat is affiliated with the Northern nician wears a standard white uni-Alberta Institute of Technology. form with gold trim, a cap with Then at the end of this training the gold trim and her graduate pin. student returns to NAIT for ten weeks of classroom instruction.

hours are spent in lectures and terias and residence dining halls. laboratory sessions. Subjects taken
If you are the kind of person sanitation, health and first aid. In Dietary Technicians. the second year, there is further

The fees for the course are fiftyponsibilities in a small institution four dollars plus the registration that does not have the services of fee of five dollars. This does not include the price of textbooks. To receive her diploma the Diet- However these textbooks will serve

Opportunities for jobs are very widespread, covering hospitals, Approximately twelve hundred nursing homes, restaurants, cafe-

the first year include nutrition, who has a keen interest in people, foods, commercial food prepara- enjoys the challenge of difficult tion, personnel management, in- tasks and would like a very intestitutional management, business resting vocation, then you belong math and English, typing and with the active energetic group of



AIR CONDITIONING AND REFRIGERATION

is undergoing a transition with regard to the utilization of technically trained personnel. It is estimated that for every professional engineer engaged in research and design in the industry, there is gineers, application engineers, operating engineers, and air condicians to plan and design, sell, install and operate air conditioning and refrigeration systems.

Helping to educate these person-Air Conditioning and Refrigeration

academic aspect, the student receives instructions on subjects of engineers and architects plans such as English, Physics, Mathe- and specifications. matics and Industrial Relations which are co-related with the main and around Edmonton are includcourse. There are also supplementary courses in welding, sheet metal work, and machine shop industry with which he would be practice relating to air conditioning and refrigeration.

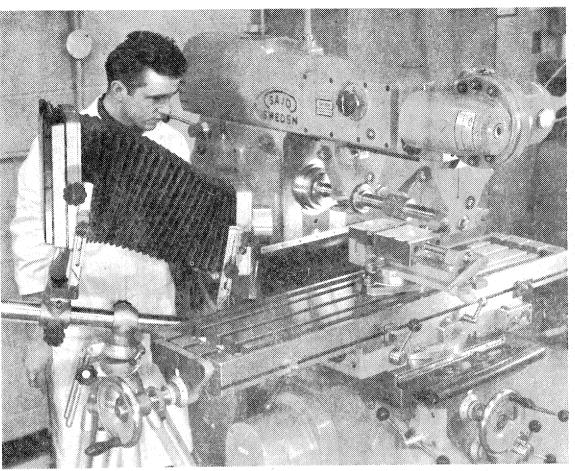
Teaching is not confined to the classroom, the student spends much of his time in the laboratory where he gains practical experience. These labs are fully equipped idea of what to look forward to in with the most up-to-date apparatus this highly diversified field. and equipment. There is a large

The air conditioning and refrig- training unit for air-conditioning eration industry, like many others, practice. This unit is controlled by one of the most modern controls systems, which is arranged so that the problems of a practical nature common to the field could be set for the student to solve. There are also other facilities used for teacha need for five to ten sales en- ing refrigeration heating and air conditioning and modern equipment is continually being added in order tioning and refrigeration techni- to keep abreast with the latest developments in the field.

Two-Year Course

During the first year of the course, emphasis is made on menel is the role being played by the chanical refrigeration theory and practice. This includes installation Division of the Northern Alberta and reservicing of typical refrige-Institute of Technology, one of the ration equipment, as used in comfew technical institutes in Canada mercial and industrial instalations offering a comprehensive course in During the second year the stu air conditioning and refrigeration. dent concentrates on heating and Looking at the course from the air conditioning system design and installation, and the interpretation

Study tours of large industries in ed in the curriculum in order to familiarize the student with the associated after graduation. Experienced engineers in this and other related fields are frequently invited to give talks to the students, so that on completion of his course the student will have a good



Black and White Comes First

PHOTOGRAPHIC TECHNOLOGY

Photography, as never before, has a responsibility to the people and economy of Canada. Once a medium of pleasure and beauty, photography has refined and broadened itself where now, those adehelp to contribute important information towards the production of saleable and competitive goods.

Technology is meeting this challenge by offering to those with the ability, experience and training. entrance requirements, a thorough and complete course in Photographic Technology.

that each stage of theory is accom- darkrooms and laboratories. panied by practical laboratory instruction and assignments.

The first years of the two year LATELY? program puts the course weight on Seen anything colourless lately? maximum efficiency, cleanliness, Have you taken any colour phototechniques of presentation.

recording.

Employment is available in the granted. darkroom of studios, large firms We second-year photographic

and industrial plants. Medicine and tech. students at N.A.I.T. can't Police are using photography more take the results for granted. We

Colour Comes Later

and more, while there are good opportunities in the Audio Visual field and the various retailing and wholesale outlets. It should be realized that the greatest area of initial employment is in darkroom ty to advance to the camera will be greater for those receiving training in such. Like any com-The Northern Alberta Institute of petitive position, the potentials are limited only by the photographer's

The Northern Alberta Institute of Technology has provided studio and laboratory space to ensure the stu-This is a course designed to dent the best opportunity for pracequip a person to accept a photo-tical and theoretical instruction graphic problem with clarity and possible. Every piece of equipment understanding, whether it be in the is new and up to date, yet funcdarkroom or behind the camera: tional and of the type found in the Emphasis is put on "doing", so working photographer's studio,

THOUGHT COLOUR

all phases of black and white pho- It's not likely. Unless you are comtography. Densitometry and other pletely colour-blind or live in a density controls are stressed along perpetual darkness you can't heip with general working procedures, but see colour. You take it for Quality control systems are intro- granted, though, just as you rarely duced to ensure the student learns stop to think about your heartbeat.

and consistency in the darkroom. graphs lately? Chances are you The course includes print and neg- have. You've seen a lovely moun- FULL COLOUR. ative retouching as well as the tain scene, taken out your camera, pushed the button, and sent the laboratory and on location. Basic course in photography, you rarely Motion Picture procedures are also wonder how it is possible to capof film. You took the results for

learn why colour photography is a reality. We learn how colour films are constructed, and why they are so made. We use a variety of materials, and learn why they differ. We are taught why there is an quately trained in photography can technician work, but the opportuni- Ektachrome, an Ektacolor, an Ektaprint, a Type 6740 Anscochrome, an Internegative, a Type 'S' and Type 'L'; and so the list stretches. We realize what a colour is, and why we see pink instead of red, green instead of blue. We learn why an orange may look like a lemon in a photograph, and how to make an orange look like an orange. In short, we learn how to control one of our Miracles".

But knowledge in itself isn't too useful. So when we are finished here at N.A.I.T. we can go to work in a variety of ways. It may be in one of Canada's growing number of colour finishing labs, or in a studio taking colour photographs, free-lancing to fill our magazines with colour, or in our own business. But the end result is the same. We will be the intermediaries, we will provide the link between that lovely scene you saw on your vacation, and the times in your living room when you can again see the same splendour, IN

OPEN HOUSE

The Open House display of the Color processing and printing are film away. Then you forgot about Photographic Department has been incorporated in the second year it until it was returned. The re- designed to provide our open house studies, with the techniques of sults were quickly glanced at, then guests with a first hand view of control and production clearly in- either flashed on a screen, or our section. We have displayed in dicated in each by theoretical and stored in a box, envelope, or al- our studios examples of our photopractical instruction. Advanced bumn; available for a qick, remi- graphic work and a small samplblack and white photography, both niscing look years from then. Un- ing of our working equipment. The portrait and commercial, is con-less you're deeply interested in prints and transparancies on distinued with further instruction in photography, or are taking a play have been planned, photographed, processed and finished by the first and second year stugiven, including editing and sound ture nature's colours onto a piece dents. We hope you will enjoy your tour through our labs, and our photographic display.

FORESTRY TECHNOLOGY

The purpose of the Forest Technology course is to train men in the vital role of managing our forests and other renewable resources. The course is spread over two years, the first of which is spent at N.A.I.T. and the second at the Forest Technology School in

In the first year the emphasis is on theory with about a 60:40 lecture to lab ratio. Some of the satellite courses covered in the first year are: Effective Communications, Math, Business Administration, and Construction Theory. Zoology, Wood Technology, Botany, Soils, Weather, and Dendrology are taught in the first year with practical application being emphasized in the second year.

The major second year project plan on an assigned block of forest. Students must prepare maps, and compile growth figures on that plot by doing his own field work using the knowledge he has gained

the beginning of the second year the Drip club. together with a report on the stu- Muk-Luk dent's summer work in one of the many branches of Forestry. Open House '67

growth chambers will be shown

and explained. There will be displays of Forest Products and Wood Defects representing Wood Technology. Zoology will be represented by a comprehensive collection of over 800 insects of Alberta's forests. The soils display will be of interest to everyone, as there will be a continuous series of soils tests performed by students while, also on display, will be a large rock and gem collection. The whole aspect of forestry will be represented by displays of fire fighting equipment, mensuration instruments, and a model saw mill. During the day various films will be shown to the public on different aspects of forestry which should be of interest to everyone. And, of course, Bertie will be on hand to greet the public and welcome is a comprehensive management everyone to the Forestry paradise.

Bloody Mary Trophy Were you all wondering who won the Bloody Mary Trophy? Well, Forestry won it hands down from his lectures. Second year with 95% of the class donating. courses have a lecture to lab ratio The other 5% were not allowed to give as 100% of the class showed Between the first and second up inside the door. This would years the student is unable to get not have been possible (if it had away from his courses as he must been) on a volunteer basis as we prepare both a comprehensive in- had to drag certain students out sect collection and plant collec- of bed and the library so that they tion. These must be turned in at too could become a member of

Forestry, with the generous support of Sign Writing, were able to represent N.A.I.T. well in the Forestry's open house display Muk-Luk parade of 1967. The float looks like the best yet. The stu- on which Bertie was the star (and dents are working hard to depict our Queen was the beauty), won every forestry subject covered in second in the non-commercial the first year course. Meteorology class. Our deepest appreciation will be represented by a model must go to the instructors who lookout tower, a fire finder, and a contributed a great deal of their model of the weather station that own time to supervise and advise is found at all lookouts. Botany on the construction of the float. will be represented by a plant col- The 8-foot high crest, made for and lection, models of different parts used on the float, has been donated of the plant, and the operation of to N.A.I.T.S.A. for their own use.

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APPRENTICESHIP DIVISION

ticeship is an earning while learn- ics, heavy duty mechanics, auto ing arrangement. It is a training- body mechanics and the partsman. on-the-job and a trade school train- We have the refrigeration meching program. An apprentice is em- anics and the appliance serviceployed by a firm engaged in one man, who is involved in the reof the 28 trade areas now desig- pair and servicing of household nated in the Province of Alberta. appliances. We also have the ma-

Provincial Government- Appren ticeship Board between the employee and his employer. The be as little as four or as long as prentice is treated as a regular enced by, the apprenticeship pro- is an important part of N.A.I.T. student, with the normal responsibilities and privileges of the school.

The contents of the course will have been prepared by the Apprenticeship Board, with the assistance of an advisory committee for that particular trade and a close liaison with the school.

There is a minimum education requirement. For many of the trades it is Grade X, with emphasis on mathematics, science and English. Other trades may have a Grade IX minimum requirement. Many employers do not accept this minimum as a trade minimum; they may require a young fellow to have Grade XI and, sometimes, Grade XII. We can, therefore, expect to have some pretty high quality apprentices in some of the trades.

The economy of Canada and Alberta is expanding, and the apprenticeship attendance during 1966 in Alberta increased 27% over 1965. In certain areas extra classes have had to be scheduled even above the projected increase for 1967. Many programs start the first of September and carry on to the end of June. The largest registration in a single day at N.A.I.T. was January 3, 1967 when almost seven hundred apprentices were enrolled.

There are many opportunities available to young men who would choose to become skilled craftsmen by joining the field of work under a contract arrangement which provides for formal schooling, that will enable them to become recognized as well trained.

In the construction trades we have the carpenter, the bricklayer, and the plasterer, the painter and the decorator, the tile setter and the lather. In the trades closely associated with the construction industry, we have the piping trades, the plumber, steamfitter, gasfitter. We have the sheet metal mechanics, the iron worker, the roofer, the glassworker, and the welder.

We have three electrical trades - the construction electrical, involved in wiring and electrical services in buildings; the power electrical - associated with the distribution of electricity; and the communications electrical, working with telephones and related equipment. We also have the radio technicians, involved in the repair of radio and television equipment.

In the automotives and diesel

What is apprenticeship? Appren- area we have the motor mechan-A contract is drawn up by the chinist and the millwright.

In the food preparation areas, we have the cook and the baker.

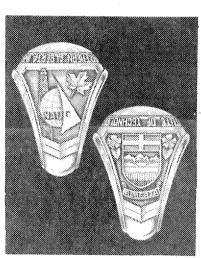
The technologies that have close length of apprenticeship is usually contact with apprenticeship in the three or four years, with a part of same area are in a very fortunate each year spent taking formal position. High calibre instructors training at a trade school. The are found at N.A.I.T. This means length of training per year is usu-that they normally have a very ally six to eight weeks, but may good academic background. Since nologist that may not otherwise the instructors in the technology twelve. While at school, the ap- program are involved in, or influ-

gram, the result is a very well balanced technology. It is recognized that the technologist is between the tradesman and the engineer (or professional of the field); if he is to fulfill his purpose he must not migrate too far either toward one end of the scale or the other. The influence of the tradesman or apprentice at N.A.I.T. complements the highly qualified instructor to make a good technologist.

The benefits are not one-sided. The apprentice is continually in contact with the upgrading influence of an academic environment. He is thus able to understand better the theoretical side of his work, as well as see a facet of the tech-

Yes, the apprenticeship program

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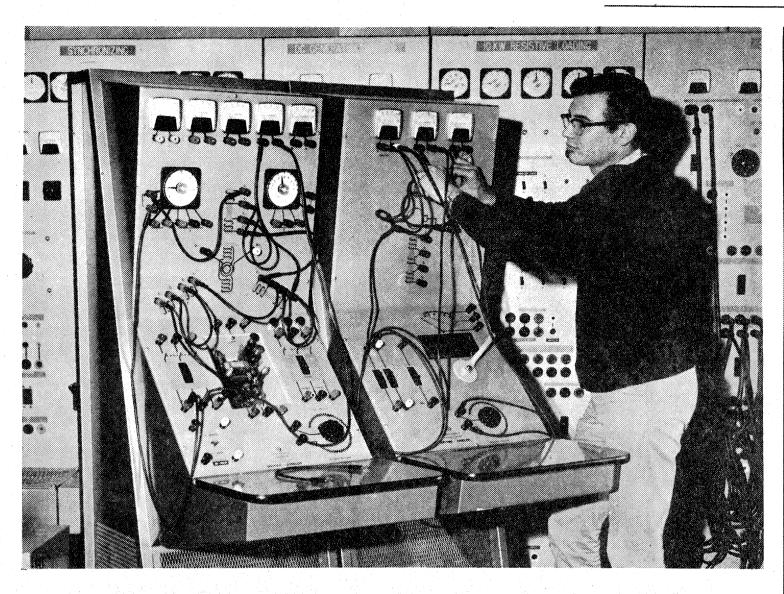
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ELECTRICAL TECHNOLOGY OFFERS MUCH OPPORTUNITY

sumed to the present. This inthe educational institutions for electrical technologists. For the past few years the number of technicians needed has far exceeded the number of graduates.

trical technologist has a choice in day. This type of work entails the a detailed education but more of which part of the country that he wishes to work. A person can, if he so desires, travel on a province-wide basis doing work that is both interesting and challenging as well as obtaining experience in various branches of the electrical industry. The technologist can install equipment, operate equipment or become a maintenance man for an industrial firm. The electrical technologist has a wide range of opportunities open to him. The education that the technologist receives is only designed to open the door to opportunity. After the door is open, it is entirely up to the individual.

In the electrical field, the main industries with which the graduate may find employment are: Calgary Power, City of Edmonton, City of Calgary, B.C. Hydro, Saskatchewan Power, Westinghouse, General Electric, Atomic Energy of Canada, Canadian Chemcell and International Power' Consultants. These industries offer a wide variety of positions from research to the maintenance and design of equipment.

The technologist may also apprentice for two years after successfully completing the course at N.A.I.T. This apprenticeship may.

work.

Opportunities in office work are

man's demand for power will have journeyman's certificate or to-tion of costs of electrical instal- technologists will be able to handle surpassed all previous power con- wards a power journeyman's certi- lations. This is a challenge to the any specific problem in the elecficate. Both of these fields of en- individual who prefers this work trical field. creased growth in consumption deavour offer a bright future for because of the pressures of comhas placed a great demand on the graduate entering this type of petitive firms and the search for and A.C. machines; this will give originality of specific designs.

also available to the graduate. This are designed to give the student a of construction, and the various type of work is usually recom- well rounded education in the elec- methods of using these machines. mended for the person who does trical field. This type of education Because of demand, the elec- not mind working over a desk all is not designed to give the student ments (how to use and repair in-

During the next half century be served towards a construction drawing, designing and the estima- a general knowledge so that the

The student will be taught D.C. him the theory and some experi-The courses taken at N.A.I.T. ence in design, as well as the types The stduent will also take instrudicating meters), basic electronics (tube and transistor circuits and theory), design (installation design of electrical circuits), and logic controls (solid state theory and labs.) As well as the main electrical courses; the student will also be taught Drafting, Physics, Mathematics, Calculus, and English These courses are essential to the technologics in helping him understand electrical theory and to communicate with engineers and technicians effectively.

> The aim of the electrical instructors is to give all students a basic knowledge of the fundamentals and operation of the equipment that a student might encounter in his later years; but, perhaps the most important aim is to train the students to think for themselves.



By JOHN FISHER Centennial Commissioner

Canada's Centennial, besides being a national celebration, is also a time for reflection on this country's past, its present and the promise it holds for the future.

The potential that Canada has in store for its youth is immense so immense that in the first 100 years of our nationhood we have only scratched the surface. In the field of science and technology, new methods and new tools are being perfected each day.

Who but a science fiction writer would have dreamed of the laser beam and its implications a decade or so ago? Or of Telecommunications satellites, men walking in space and nuclear generating stations?

Just recently a Canadian scientist disputed Einstein's theory of relativity and set out to disprove a formula which the world has regarded as fact for years.

There is no telling how far you, as young students, can go in the technical field. No limits have been set because the next invention or improved process could open up entirely new vistas.

Canada is committed to the technological race the same as the rest of the world — a race that hopefully will broaden our horizons and improve the lot of mankind.

It is obvious that the Canada of tomorrow will demand all our resourcefullness and an increasing effective use of manpower. For these reasons alone it is important that young Canadians be given and take full advantage of - the opportunity to realize and develop their maximum capabilities.

Canada is certainly offering the challenge. Now it's up to you to grasp it.

On behalf of the Centennial Commission, may I extend warm greetings to all of you and wish the Northern Alberta Institute of Technology a successful Open House.

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WE AT MUTUAL WISH TO EXTEND CONGRATULATIONS TO ALL WHO WILL BE GRADUATING FROM NORTHERN ALBERTA INSTITUTE OF **TECHNOLOGY**

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dents attending the Technical Institute of Canada now includes professional education. A compre- Experience. hensive work-study program is qualify themselves as vocational September. 70 weeks. teachers, instructors, and research specialists.

The Department of Industrial sity of Alberta, Edmonton has ex-Schools and Technical Institutes. cational Education. This program is designed to develop the instructors and teachers that are now necessary to meet tive world.

Heretofore in the Province of Alberta it was necessary to have had from five to ten years practical experience in business or industry Education field, to work toward a bachelor of education degree, with mendous value of this real life exhowever, another route is open.

The unique feature of this new program is that it enables a stu- and research. dent to obtain an education degree as well to get an enriched industrial or business experience con- that meets requirements similar to currently, under the supervision of University of Alberta, Edmonton. business and industry is an essen- must have U. of A. (Edmonton) tial part of the program. Reception approval. Subsequent University of the cooperative plan by business courses would be carried on at highly favourable.

Well paid positions during the summer that parallel the Univerbe a rich learning situation. During the work period the University will provide supervision of directed reading and seminars.

The program is flexible to accommodate practically and specialty from electronics to food services to business education.

General requirements — Faculty of Education matriculation.

- a minimum of 30 High School credits in a vocational area of interest or its equivalent in the technical schools.
- The ability to work with people and enjoy it.

Registration in the Faculty of Education Route 2 Vocational Education is under way. It is imperative that students register now in the Ed. Voc. 123 course, which constitutes placement in a position that will provide requisite skills in the students area of specialty. Outlined here is the alternating workstudy program. It is flexible, accommodates high school students with vocational credits, technical students and transfer students with university program partially completed.

Ed. Voc. 123 — Supervised Work Experience.

July, August, two weeks in September.

First University Year — middle of September to end of April.

Ed. Voc. 223 — Supervised Field Experience.

May, June, July, August, two

Vocational opportunities for stu-weeks in September. 18 weeks. Second University Year.

Ed. Voc. 323 — Supervised Field

May to September then continuopen for young men and women to ing for a full year to the next

At this point a student is in an excellent financial position to complete the third University year foland Vocational Education, Univer- lowed by a final work experience - Ed. Voc. 423. This alternating tended teacher education aimed at pattern follows through culminatrecruitment from Vocational High ing in a Bachelor's degree in Vo-

> Some of the unique features include the following:

1. A student is enable to obtain the demands of a changing produc- his education and industrial experience concurrently under supervision of the University.

2. The student's background and education fits him to be employed with confidence in the business or before entering the Vocational industrial world as well as in the EDUCATIONAL WORLD.

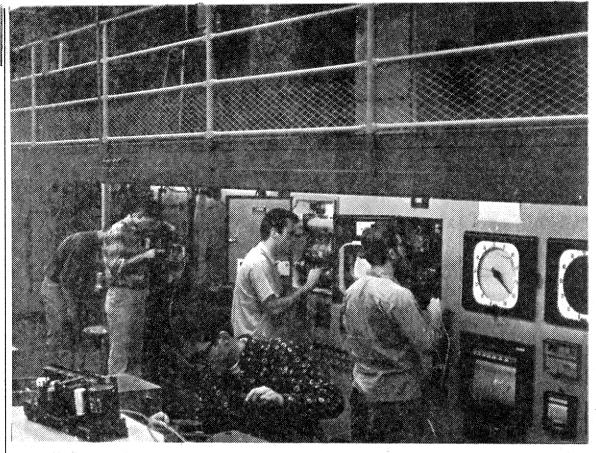
3. The educational career has a a specialty in business education wide range of possibilities such as or vocational education. The tre- high school teachers, both vocational and academic, technical perience as a background for edu-school instructors and administracation is widely credited. Now, tors, training officers within industry, adult training, and personnel training for post graduate work

4. The first year of University can be arranged at any University University. Cooperation of However the Ed. Voc. 123 course and industrial leaders has been Edmonton. The work-experience need not be arranged in one place.

Again, it is imperative that applications must be made as soon sity program can be financially as possible in order to register in rewarding and at the same time Ed. Voc. 123 course which is the orientation to the program prior to University attendance.

Application for entrance to University must be obtained from the University you expect to attend. Registration for Ed. Voc. 123 must proceed through the Department of Industrial and Vocational Education, University of Alberta, Edmonton.

Brochures and other pertinent information is available through the Guidance and Counselling office at N.A.I.T. or contact Mr. L. J. Shields, Room 231, Education Building, University of Alberta.



Students employing their acquired skills.

TECHNOLOGY INDUSTRIAL PRODUCTION

There are many factors, social, nologist is concerned with any one sign, metallurgy, strength of maeconomic and political, which in-Chief among them is productivity. Whatever the product, from canfuel, from buttons to trucks to satellites, from ping pong balls to transistor radios, productivity is the key to making them available in sufficient quantity at a price we can afford to pay.

E. S. Roscoe, Professor Emeritus of Industrial Engineering, Pennsylvania State University, states that, "The material standard of living of any nation depends upon production - the conversion of natural resources into useful things." and he illustrates graphically the role of production in the nation's economy.

Industrial Production Technology is founded on such a philosophy and within such a framework.

Whatever the product may be, its existence in quantity, its quality, and its cost are determined by common basic factors ranging from product design and specification to distribution and sales.

The Industrial Production Tech-

or all of the areas. His success fluence the nation's well-being. rests upon a practical knowledge of materials, design, manufacturing processes, labour, managened foodstuffs to shoes to rocket ment, capital, and the profit motive. His goals are quantity, quality, and low cost; his means are planning, implementation, and control.

While several institutes offer production options in their Mechanical and/or Manufacturing Technologies, the Northern Alberta Institute of Technology is the only one in Canada offering a complete and separate course. Basically it is a three year program but entrance into the second year is permitted to those applicants having adequate academic and/or industrial background. The first year is largely academic, in preparation for more specialized studies to follow, and includes subjects such as English, Mathematics, Physics, Applied Mechanics, and Machine Shop. Second and third year activities include studies, investigations, and laboratory work in areas such as manufacturing processes, machine design, jig and fixture deterials, metrology, work study. plant layout, and estimating.

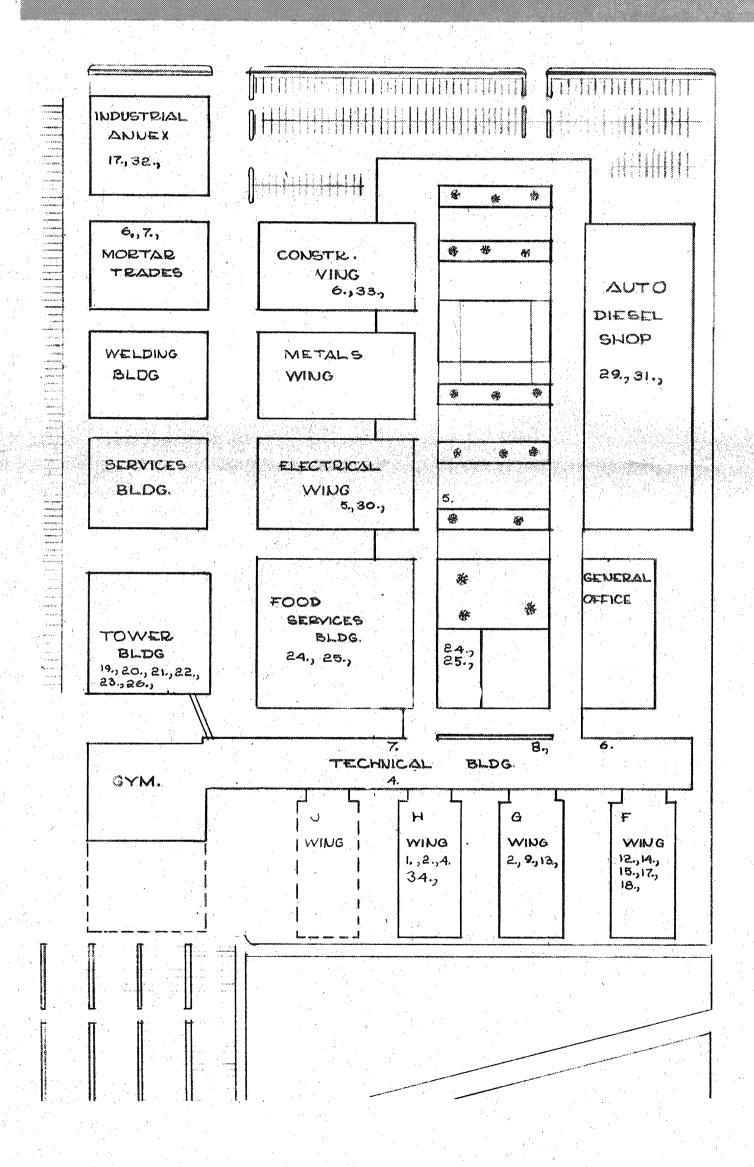
N.A.I.T has accepted the metals industry as the medium for instruction, not only because so much of the nation's potential is applied in this direction but also because of the variety of machine tools, each with characteristics typical of a wide range of industrial equipment, that can be accomodated conveniently within an educational institution.

Graduates from the program have been well received and are highly respected in industry. Several of them have enjoyed early posting to responsible positions. Demand for graduates is good and is expected to grow as industry in Alberta and across the nation continues to develop and expand to meet the needs of a prospering Canada.

You are invited to visit the Industrial Annex during Open House, March 17 and 18, to see the displays and to learn more about the challenging field of Industrial Production Technology.



Your Personal Guide on Your Tour Through N. A. 1.7.



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