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NUGCET

IS LABELED "PUSH"

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NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY

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Edmonton, Alberta

NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY



THE NUGGET STAFF EXTENDS A MOST SINCERE WELCOME TO ALL VISITORS OF OUR OPEN HOUSE 1969

WE HOPE YOU ENJOY OUR SEVENTH AND BEST OPEN HOUSE AND WE LOOK FORWARD TO SEEING YOU AGAIN

THANK-YOU
FOR ATTENDING

THE EDITOR G. ANDERSON

NAIT CAMPUS

The Northern Alberta Institute of Technology is located on a thirty-one acre campus adjacent to the Industrial Airport 2 miles from downtown Edmonton. It is one of the largest and best equipped Technical Institutes in Canada. The original group of buildings was completed in 1963. Since then additional buildings were completed in 1965 and 1968. Further buildings are now in the planning stage to meet the ever-increasing need for technical and vocational education in Alberta.

The Institute has a floor area of 865,000 sq. ft. or 20 acres of floor space in 8 buildings most of which are interconnected and esentially under one roof. The facilities include 170 shops and laboratories and 110 classrooms providing accommodation for a maximum of 4,800 students at any one time.

A self-service cafeteria provides reasonably priced meals for students and staff in a dining area that seats 900 persons at one time. In addition banks of vending machines have been installed in student areas at several locations to serve hot and cold drinks, soup, sandwiches, etc.

The McNally Library with 30,000 technical books and 300 periodicals has a seating capacity of 250. The Institute Book Store, operated by the School Books Branch, handles all student requirements for text books and supplies and handles up to 90,000 texts per year at reasonable cost.

Facilities for physical education and extra curricular activities include a large gymnasium, games room, bowling lanes, auditorium, little theatre, offices of the students' executive, newspaper and yearbook. There is also an athletic field which has a 1/4 mile track and facilities for football, baseball and track and field.

The Institute has parking space for 2,000 cars. Reserved parking is not available to students.

While the Institute can accommodate up to 4,800 students at any one time, it is estimated that it will serve up to 16,000 students during the 1969-70 academic year. This includes 4,000 full-time day students, 5,000 apprentices and 7,000 evening students in the Extension Division.



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Peter Poznasky



PHOTO BY M. HOWELL JONES

It is a well known fact that public acceptance is one good indicator of success of any organization. Sometimes this success factor is difficult to accurately determine, however, when the public begins to refer to NAIT in terms of "our" or "we", rather that "they" or "it", it would appear that the Northern Alberta Institute of Technology has become an accepted part of this community.

Not long ago I had this point illustrated to me very vigorously by a taxi driver. He didn't know me or my connection with NAIT. As he talked I became aware that he was proud of NAIT and he considered it as part of his City. He said "We've got to build more buildings or we aren't going to take care of all the people who want our courses". He considered NAIT as his Institute and that's the way it should be.

Naturally we are pleased, if not somewhat amazed, at the interest and reaction of the general public towards NAIT and the courses we have to offer. For the past three years we have had about 40,000 peop per year visit NAIT at Open House and we expect the same will be true this year.

We know from past experience that many of the 40,000 will have made several visits to NAIT in the past. This is fine, we know it is difficult to see it all in one visit, we therefore encourage you to return again this year.

Our enrolments this year are just about at our maximum. We have 4,600 on the Campus at one time during the day and we will have over 6,000 evening or extension students. Overall we expect to give some type of training to 15,000 this year.

For the coming year we have already oversubscribed nine courses, however, we are still accepting registrations in forty courses. We hope our visitors will ask all about our courses. The students are taking a keen interest in Open House this year and are most anxious to tell visitors all about it. Please ask them.

We personally invite you to Open House on March 14th and 15th from 9:00 a.m. to 10:00 p.m. on the 14th and 9:00 a.m. to 6:00 p.m. on the 15th. We believe you will enjoy the tour.

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

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BUSINESS **ADMINISTRATION**

Business Administration is the industrial equipment, financing, society. The number of opportunities existing in this field are unlimited. The very substance of our nation is wealth, and where wealth is involved so is Business Administration.

It is the aim of the Business Administration program at NAIT to equip students with the fundamental tools of business and to train them in areas of modern business that will allow graduates to adapt readily to areas of modern business occupations. This specialized training when coupled with on-the-job experience and application, will result in rapid progress and promotion within the chosen field. The quality of the course is evidenced by the growing number of employers who are approaching the Business administration graduates to fulfill their Company's needs for future man-

First year students enrolled in the Business Administration program study material designed to give them a general background in business practice and theory. Having this background, the student tarting the second year may then choose, from the four options offered, the one program in which he is most interested.

SECOND YEAR OPTIONS

ACCOUNTING

In any business, management needs systematic, comparative cost records and reports as well as analytical cost and profit data to manage an enterprise. The accounting option is designed to give a general knowledge of how an organization presents, analyzes and interprets its own financial affiars both for management and owners. Students enrolled in the accounting option are trained for careers is accountants, auditors, cost analysts, controllers and/or other related fields. Graduates who continue with their studies may challenge examinations to obtain second year R.I.A. or C.G.A. certification.

BUSINESS MANAGEMENT

This option is designed to add to the understanding of the fundamental principles of business from the viewpoint of the administrator. It emphasizes administrative decision and the general unity of business administration. Graduates are trained towards eventual supervisory administrative positions in commerce, industry and government. After a period of orientation with an employer a graduate may find himself in a responsible position in the general office, plant work, production, sales, finance, marketing, traffic, etc., to name a few of the potential areas of employment.

CREDIT ADMINISTRATION

This option is designed to meet the need for trained credit personnel in such activities as credit granting, credit reporting, and credit procedures. Emphasis throughout the course is placed on practical applications. On-the-job training, which is provided in the sixth quarter, provides the student with practical experience.

Employment will be available in the areas of wholesaling, retailing,

broadest field of employment in our banking and other specialized forms of credit. Credit administration is big business and affords many job opportunities. These opportunities include investigation of credit, credit applications, reporting of credit, clerical operations. credit counselling, etc.

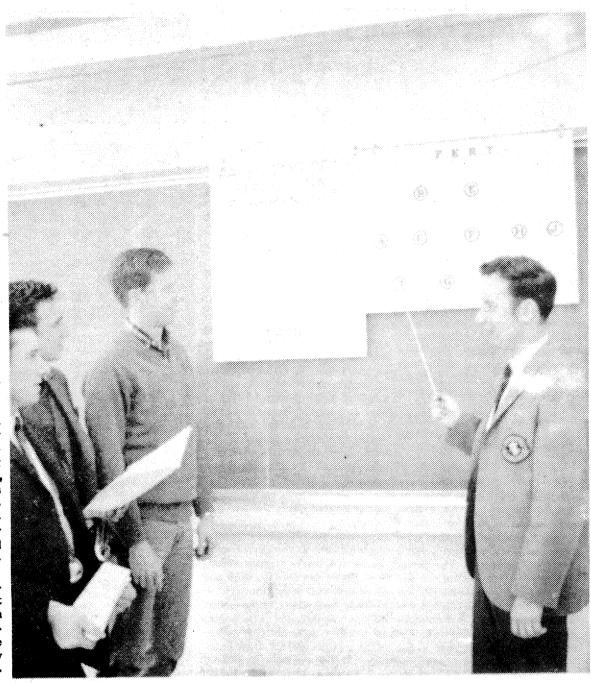
Office Administration

The office administration option provides broad training in office organization and supervision, office functions, methods analysis, systems development and electronic data processing.

Upon completion of the option, a successful student may transfer directly to the second year program of Computer Systems Technology. If again successful, the student will possess, after three years at NAIT, two diplomas, one in Business Administration, and the other in Computer Systems Technology.

The Business Administration program requires effort whatever option is chosen. Business Administration graduates are competing with graduates, in related courses, of Universities and Junior Colleges that have three or four year programs. Since the Business Administration program at NAIT is only two years in length, much hard work and perservance is required to graduate.

Students of Business Administration not only work hard but play hard. Business Administration has a very good record in intramural sports competition, and the Business Administration Society is the most active, fun-loving student society at NAIT.



IBUTIVE TECHNOLOGY

Distributive Technology is like agement are taken as well as re- as a career with the basic and adgetting in on the fifth floor, not the ground floor of the business world. With Distributive, you ride SALESMANSHIP the elevator to the top, not climb man or woman with aspirations of reaching a top executive level.

Distributive offers a thorough business. A varied program to representative who is market mantrain those who will be in the process of distributing goods from manufacturers to consumers.

first offered in 1964. Now, under the guidance of Mr. Baird, the course runs smoothly from the teaching of subjects to the par- will be schooled in four basic subticipation in social functions.

sports activities are a few of the techniques in the realm of indusfunctions enthusiastically joined in trial and retail markets. Second-

basic knowledge of the various program. fields of distribution.

vertising is chosen you take Ad- representative. vertising courses as well as cre- ADVERTISING ative labs. In Salesmanship you MANAGEMENT learn of the various facets of sales
The objectives of the advertising in the specialized course. In Mer- program are twofold. First, to prochandising, courses in retail man- vide students seeking advertising

tailing labs.

PROFESSIONAL

Our on-going society demands the stairs. Yes, the course offers a constant flow of goods and sera good background for the young vices. This flow is maintained through the constant efforts of the Professional Salesman. In this decade, personal and industrial sellknowledge of what is involved in ing is identified with a company ager in his territory, who sells within a keenly competitive business structure, and who utilizes Distributive Technology was highly sophisticated motivational tools, combined with a problemsolving approach to business.

Within this program, the student ject matter areas. First, the stu-Queen Week, Open House, and dent will examine and develop sales ly, he will explore the area of ates Even though Distributive is one the consumer with psychology and agencies, advertising depart- have volunteered to co-operate with of the more enjoyable courses motivation. Thirdly, administra- ments, print and broadcast media NAIT in a progressive in-store socially, there is a lot of work tive concepts of sales management or research organizations. involved in receiving the essen- are probed and analyzed. Fourthtial training for the future. In the ly, an orientation of marketing two-year training you receive a methodology will round out the

After a successful completion of In addition to the main core the program, the student's emyou receive courses applicable to ployment possibilities range from the program you choose. If ad- direct sales to corporate accounts

vanced techniques of advertising. Second, to provide the advertising industry with trained personnel.

There are three main streams followed in the course. Creative Advertising includes the study of copywriting for print and broadcast media, layouts, story-boards, production and direction. Advertising Management involves a study of the various media, the role of advertising agencies, the role of advertising in the marketing process and the role of advertising management. Advertising Research covers such areas as Nielson ratings. Starch Surveys, pretesting and postesting, and measuring sales effectiveness. Extensive case study is used in all

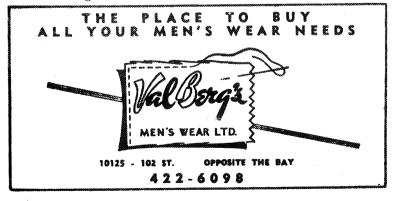
Possible positions open to gradu-

MERCHANDISING **ADMINISTRATION**

The purpose behind the Merchandising Administration program is to provide students with a solid grounding in the practical and theoretical approach to Merchandising, and to develop for retailing organizations, employees who can immediately function as responsible staff members.

The course content is very extensive, and covers the following aspects of Merchandising: Retail Organization, the Customer, the Buyer, Merchandising Policies, Technique of Buying, Fashion Merchandising, Visual Merchandising, Merchandise Control, Mathematics of Merchandising Control.

There is also a Co-operative Work Program included in this program. It entails twelve hours a week of practical part-time work in local Department stores that program.



COMPUTER SYSTEMS

yourself after graduation? Or are mote terminals to computers. you interested in getting a high-

The objective of this course is simple: to train students, both men and women, to become efficient programmers and competent system analysts in the rapidly expanding field of electronic data processing. This course is well-suited to people with reasonable mathematical ability and a clearly logical mind; furthermore, certain subjects offered will help to develop these qualities. Prerequisites include Math 30 and a high school diploma. Suitable applicants with senior matriculation are welcomed.

What is offered to the proslems which you program are ining more necessary because we at the Institute.

Undecided about a career for have now entered the age of re-

The second year in Computer paying exciting job in the field of Systems, school becomes even tomorrow? If the answer is yes, more fun as you begin to solve it's time you considered enter- practical problems that allow each ing the fascinating world of "man- person to use his own creative made brains" as a student in Com- abilities. Also, more emphasis is puter Systems Technologyat NAIT. give to the aspect of systems analysis in computer systems; that is, analyzing and designing workable business systems using the computer as an aid. Other subjects taken include advanced mathematics and cost accounting; statistics, which requires a more scientific approach to problem solving; business production and inventory control, various computer applications, and others. Naturally a proportionate amount of work is expected from the student in both years to produce the results required for graduation.

As a graduate of Computer Systems, what can be expected for job offers? Recent graduates of pective student by the Computer the technology have been employ-Systems Technology? As a first ed as programmers, systems anyear student in Computer Systems alysts, operators, technically you will immediately begin to pro- competent sales representatives, gram the newly installed Control etc, with some of the largest com-Data 3150 computer. The prob- panies in Canada. Starting salaries range from \$450 to \$550 and tegrated with the mathematics, and promotion and salary increase is accounting courses. In addition, you virtually unlimited. Improvement receive instruction in communi- in jobs and salaries is foreseen, cations so that you can learn how as industry is made more aware to effectively present your ideas. of the superior quality of the Com-Believe it or not typing is becom- puter Systems course as offered



BANKING & FINANCIAL MANAGEMENT

changes of our time, Canadian vided into two programs: banking has also undergone many A. TELLER TRAINING AND GENservices and better systems have for girls) resulted. One of the most signiemployees.

the clerical and middle manage- ures. ment positions. The NAIT Bank- Both programs include a basic ly designed to provide the prac- gital) in keeping with the changing machines, a small scale bank in

In keeping pace with the rapid tical training required and is di-

changes. New policies, improved ERAL BUSINESS (One year-mainly

This pattern is designed fundacreased education required of new ganizations with young men who ly for boys) will advance rapidly through jundiploma has become the minimum man takes courses mainly in credrequirement. There is, however, a it, accounting, economics, law, for young men and women to fill general bank practices and proced-

ing and Finance course is special- course in computer principles (di- see, equipped with modern banking

Completion of one of the above programs provides the student with an excellent business background. Because of this, the graduating student is not confined to the banking

This course deals mainly with teller training, practical banking, accounting, posting, general bank practices and procedures, typing and operating other various business machines.

B. BANKING AND FINANCIAL ficant changes has been the in- mentally to provide financial or- MANAGEMENT (Two years-main-

field and may pursue a career in With most banks, a high school ior executive levels. The young almost any part of the business world.

If you wonder what banking really large and ever growing demand banking and business machines and does entail, you are encouraged to come to the fourth floor of the tower building. Here is our banking lab, room T-413, you will

welcome your questions.

The banks of today are very whom they deal; and you, the people, T-413) and see how we treat it!

operation. The students here will should be concerned about the banks. Your money is your most personal and precious commodity. concerned about the people with Come up to the Banking Lab (Room

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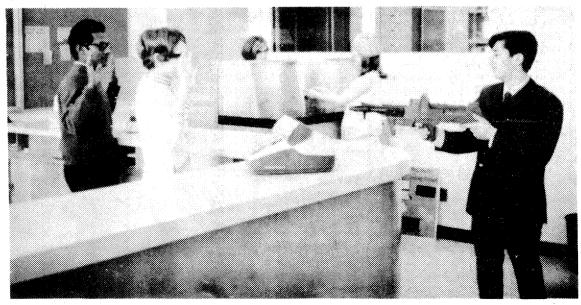
PARK PLAZA BRANCH

PHONE

11832-103 ST.

474-2411

MANAGER; MR. W (WALLY) TIMOFFEE



DIETARY TECHNOLOGY

In Hospitals, Nursing Homes, and commercial Institutions there is a rapidly increasing need for personnel capable of assuming responsibilities in food service operations. Through the combined efforts of the Department of Education, the Department of Health, and the Alberta Registered Dietitians Association the Dietary Technology course was establish-

Graduates are capable of assisting Food Service managers or Dietitians with some of the follow-

Supervision in food production areas; supervision in cafeterias; handling therapeutic diets; supervision of service of food, helping in office routine.

In small country hospitals, graduates may assume responsibility for the food service area.

The cirriculum consists of a two year program of studies involving theory and practical training. The course is divided into Plan A and Plan B. Plan A involves the post high school student. Applicants should have 67 High School credits, with at least a B standing in Mathematics 20, 21 or 22. Plan B is an upgrading course for persons involved in ood Services. Applicants must have a minimum of five years employment in Hospital or Restaurant Food Services, Concerning dress regulations - all students are required to wear standard white

uniforms, white stockings and white shoes. No jewellery is to be worn except watches and engagement or wedding rings.

As previously mentioned, the course is two years in length. Instruction of theory will take place September to May (9 months) at NAIT. This is followed by a 1 year term of in-service training at two or more hospitals or commercial institutions. At the end of the year of training the students return to NAIT for twelve weeks of classes, consisting primarily of review, solving problems and applying knowledge learned so far in the course. Plan B is exempt from the year of hospital train-

The courses offered in this technology are all interesting and a valuable asset to the future career. The subjects consist of introductory courses in typewriting, English, mathematics, record keeping, physiology, health and personal development, as well as more involved courses in: foods, food preparation, normal and therpeutic nutrition, institutional management and psychology. The students attend weekly food labs and go on various field trips. There are also chemistry labs during the third

Upon graduation from this technology, the students will receive a Technology Diploma, cap and pin to signify that they are Dietary Technicians.



MEDICAL RECORD LIBRARY TECHNOLOGY

day! NO - we don't work in a ports, diagnosis, and treatments, library!

falsehoods is because we are such

therefore an average of at least cord Department. the first year's summer vacation, Medical Records Technology is a assigned hospital.

record of a person's illness or building.

NO - we don't play records all injury, including all medical refor verifying insurance claims, The reason people believe these and for aiding in medical research.

What are the duties of a Medical a new technology - only two years Record Librarian? (1) to secure old. Our course is a combination complete medical records from of both medical and business sub- the professional staff. (2) to aid jects. When we have completed our the medical staff in retrieving datwo year program we will be re- ta for research. (3) to abstract cognized as Medical Record Li- certain data for computer processbrarians. If we write the national ing. (4) to prepare statistical reexamination, we will then be class- ports. (5) to represent the hospital ified as Registered Record Librar - in medicolegal cases. (6) to select, train and supervise subor-The course at NAIT requires a dinate personnel. (7) to supervise high school matriculation and daily duties of the Medical Re-

sixty per cent. The program is Since the demand for Medical two years in length and during Record Librarians is favorable, we work for two months in an promising course to enroll in. If you want to know more about this What is a medical record? A challenging career, visit our dismedical record is a permanent plays on the 5th floor of the tower



Hey-Just a minute!

Stop and think. Millions of women are using Tampax tampons. There must be a reason.

Maybe it's because Tampax tampons are so easy and convenient to

Maybe it's because they give truly hygicnic internal protection.

Maybe it's because the satin-smooth container-applicator protects the tampon prior to

Maybe it's because once the tampon is in place you never know it's there.

There are a lot of good reasons for using Tampax tampons. So take that minute. Find out for yourself.



DEVELOPED BY A DOCTOR NOW USED BY WILLIAM OF A DWIN

TAMPAX TAMPONS ARE MADE ONLY BY CANADIAN TAMPAX CORPORATION LTD .
BARRIE, ONTARIO

SECRETARIAL **TECHNOLOGY**



If you are dreaming about promotions and salary increases, find out what more you have to know and master to be as qualified as those with "executive secretary" and "administrative assistant" ti-

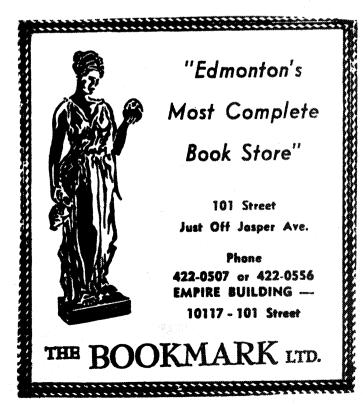
trend in management and business during the past few years to give ly. In the past, courses were all recognition to the secretary. NAIT compulsory, but now there will secretarial graduates are accept- be a "core" of basic subjects and ed throughout Edmonton, and with options. These options will be ofthe growing reputation of NAIT as fered from such fields as Busi-NAIT Secretarial diploma will soon Medical Records, and Radio and be recognized throughout Canada. TV Arts.

There are many reasons why NAIT secretaries are given this prehensive two-year program at recognition. NAIT offers a two year Secretarial program to de- education received here will help to velop the basic skills of typing, make the secretary an integral filing, shorthand, English, and accounting as well as courses such truly professional secretary is the as psychology, sociology and law one who merits and receives--that are not found in the ordinary gratitude, admiration, raises, and business school. Courses such as office management train the sec- seek. With her NAIT diploma, the retary for potential administra- young secretary is well on the tive positions. Oral communica- road to success.

tions develops the ability to communicate effectively, and since the stress is on communications in the modern business world, this is invaluable to a young secre-

Beginning in the fall of 1969, There has been a noticeable the Secretarial Technology course outline will be changed significanta fine technological institute, a ness Administration, Distributive,

Consider the advantages of com-NAIT! The superior secretarial part of the business team. The promotions---the rewards we all



COMMERCIAL COOKING

ist industry.

The Food Service Department

Institute.

develop the students' appreciation a professional food worker. and understanding of sound food of cooking and serving food.

preparation of food on a large end work. scale. Students are taught to prepare and serve nutrious food in varied and attractive ways, and to that an establishment may operate at a reasonable profit, observing public relations.

Students are taught meat cutting, pastry and desert preparation, sacookery and the service of food. ing and other factors.

In recent years millions of dol- Mastery of the practical skills lars have been invested in the Food is achieved by realistic and prac-Service industry to cater to the in- tical work in the kitchen while the creasing demands of the Canadian comprehension and technical inpopulation and the flourishing tour- formation is taught in the classroom.

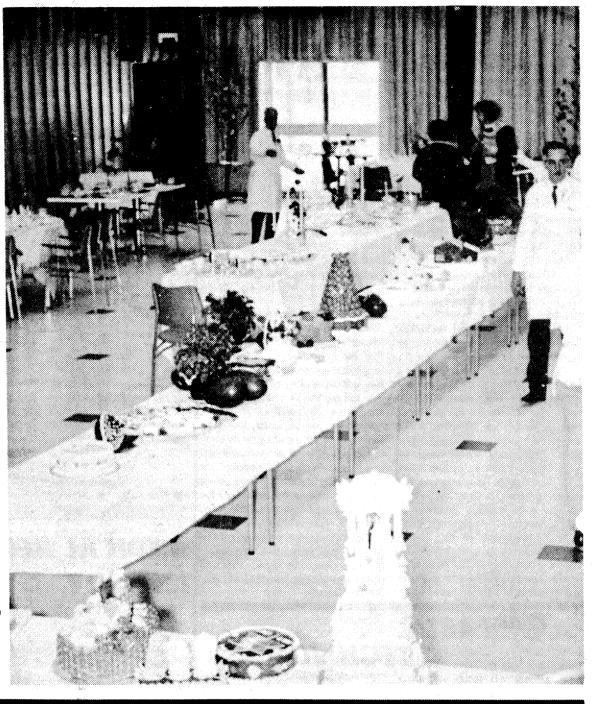
While the first year of the course at the Northern Alberta Institute acquaints the student with the baof Technology has a dual function. sics of Commercial Cooking, the First the Food Service Dept. second year broadens and deeptrains young men and women for ens the knowledge and skills of the expanding field of Food Ser- the first year. Emphasis is placed vicing. Secondly, the Food Ser- on the culinary arts. Advanced vice Dept. provides catering as cooking, ice carving, far sculpa professional service to the In- turing, pulled sugar work, chocstitute as a whole. To effectively olate work and marzipan, are some train students and at the same time of the areas covered in the second provide suitable service to the year. Professional responsibilities are also emphasized in the This is a two-year course. The second year. The student is enobjectives of this course are to couraged to assess himself as

Since catering is a service to preparation methods. This entails people, the prospective student a knowledge of the physical fac- should have certain personality ilities within a food preparation traits. He should be even temperarea as well as various methods ed and have a sunny disposition. He must be able to work under This course is designed to fill pressure, communicate effectivethe growing need for men and ly, and bear in mind that food women who are trained in the catering means evening and week-

EMPLOYMENT OPPORTUNITIES

Jobs are many and varied: respurchase and handle supplies so taurants, hotel dining rooms, department stores, coffee shops, clubs, hospitals, institutions, minat all times the importance of ing and logging camps, and catercleanliness, sanitation and good ing firms are all looking for people trained in quantity cooking.

Starting salaries vary depending on experience, personality, willlad making, soup and vegetable ingness to cook, amount of train-



BAKER'S CHALLENGE WORLDS RECORD

a worlds record in breadmaking Milling of wheat 3 min. 15 sec. that was set in May, 1966, at the International Food Fair at Belle Vere, Machester, by a Mr. Albert Alpin, an instructor at a British High frequency baking Bakery Institute. An interesting Final baking factor you might note is that he started out with wheat and milled bread.

Mixing dough 2 min. 45 sec. 1 min. Moulding 6 min. Proving 3 min. 4 min.

his own flour before he made the bout making bread this seems like feature of Open House and a dea pretty tight schedule and almost light to all viewers. This year it impossible to make bread in this promises to be bigger and better Using a micro-wave oven and a time limit but seeing is believing than ever so just follow the signs

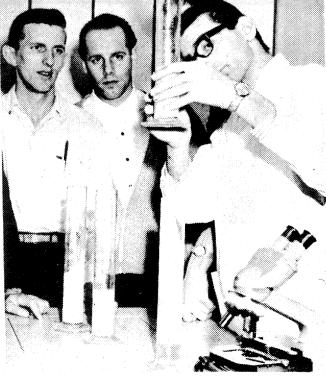
During Open House weekend, the a world record time of 20 mins. ing to show you that it can be done second year Commercial Bakers from wheat to bread. The 20 min- but in less time. So come on downhave decided to attempt to break utes were broken down as follows: stairs to the bakery and cheer them on to a new world record.

Along with this demonstration you will be able to view the bakery in operation and a display of baked goods made by the first and second year students and apprentice bakers. The bakery food For anyone knowing anything a- display has always been a main high speed mixer, he established and NAIT Bakers are not only go- to a once in a lifetime treat.











ZORBA'S

CAFETERIA-DISCOTHEQUE-RESTAURANT **DANCING**

OPENS 7A.M. - 2A.M.

ENTERTAINMENT NIGHTLY

CAMPUS TOWER BLDG.

(DISCOUNT TO N.A.I.T. STUDENTS) THERES ONLY ONE THING BETTER THAN ZORBA'S"

SOCIAL SERVICES PROGRAM

designed to provide the basic knowledge and skills, both practical and others. theoretical, required to work with people under the auspices of social service agencies and institutions. The need for persons with this kind of training is indicated by the acute shortage of professionally trained personnel; the expansion of existing programs and agencies and the implementation of new services.

Opportunities for interesting and rewarding careers at the direct services level are provided by public and private social agencies, in the areas of child care, financial assistance, probation leadership development group homes, institutions for the aged, the physic-

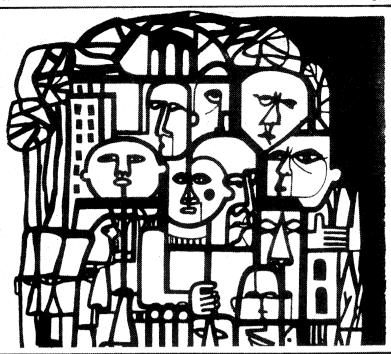
The Social Services Program is ally and mentally disabled, juvenile offenders, alcoholism and many

> Included in the curriculum are the following topics: The basic universal needs of people, human growth and development, contemporary social problems, casework, groupwork, community organization, social service programs and resources, curr t welfare problems and practical administration including recording and budgeting. In addition, students are provided with a practical field work experience two days of the week and they participate in field trips, seminars and conferences in the Edmonton area.

designed to enhance the student's capacity for human relationships and his effectiveness as a helping person: it is philosophy oriented in that each student is required to examine his personal philosophy and that of the social services it is practical oriented in providing the student with the practical knowledge and skills required by the social service worker.

Prospective students are encouraged to make enquiries about the social services field before applying for admission to the

People who enjoy life, who have wide range of interests, who are sensitive to the needs and feelings of others and who desire to work with people at the direct services level are well qualified for this program. An essential quality is The program is growth oriented a genuine concern for other people.



FOOD PROCESSING TECH

Food Processing Technology deals with applications of modern science and engineering to industiral processing, preservation, packaging, and distribution of food. Though food technology is also oncerned with aspects of nutrion and food utilization, it should be not confused with dietetics or food service.

Canada's development has been marked by the transfer of acquiring food from an individual effort to a complex industrial operation. until today the vital Food Industry is our largest manufacturing industry. With eighty percent of Canadians now living in urban areas, almost all foods are processed to some extent between producer and supermarket. The trend is clearly towards more intensive processing, increasingly sophisticated plants, and far more convenience foods in the

The two-year NAIT program has been developed to prepare skilled personnel for a wide range of technical and supervisory career opportunities to be found in the food several years the industry will facturing, milling and baking,

technicians per year in Alberta, and research, education, and inand at least one hundred annually across Canada.

provide a sound knowledge of the ments of food science and food basic sciences as a foundation for technical courses in food processing, food microbiology, sanitation, production of wholesome foods of food analysis, quality control, unit operations, instrumentation, packaging, processing equipment, industrial relations, computing, and production and marketing manage-

The graduate food technician often seeks initial work experience in quality control. With suitable experience, ability, and application he can progress to occupations such as assistant chemist, government inspector, packaging technician, pilot plant superintendent, product development technician, production foreman, quality control supervisor, or research technician. Some major components of the Alberta food industry include dairy foods, meat and poultry packing, brewing and distilling, canning and freezing, dehydrating, industry. Surveys indicate that for vegetable oil refining, sugar manu-

require about twenty qualified food wholesaling and retailing chains, spection agencies.

The food technician applies the The curriculum is planned to principles and technical developengineering. He helps to conduct the complex operations in mass consistently high quality. From his knowledge of biology, physics, food chemistry, and food microbiology he understands the effects of processing procedures. Heanticipates and prevents what the untrained man cannot - the ever present hazards of inadequate processing and subsequent spoilage, and possible food poisoning. He also knows how to use food additives safely. When quality or quantity of raw materials varies he knows how to regulate production. Above all, the food technician has to be a good manager: he must be able to get things done effectively through people whether his work is in the laboratory, in the plant, or behind

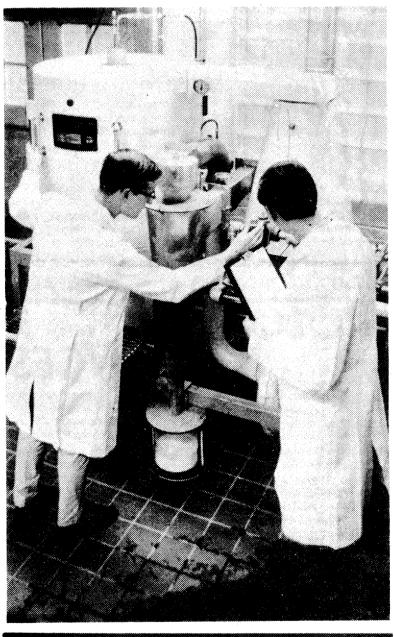
> Prerequisite to the program is a high school diploma with credit in grade XII chemistry. Mathematics, biology, or physics would be

an asset.

DISPLAY:

Food Processing Technology's Open House display in E118 will deal with cryogenic freezing, con-

tinuous fermentation, yeast production, extraction of flavour oils, synthetic foods, food grading, investigation of food spoilage, testing of dairy products, and a model dairy foods plant.



The dental assistant is becoming main purposes are: a greater necessity and a more girl and is now becoming the doctor's right hand. She knows the instruments, procedures, and technical knowledge that goes on in working skills in chairside, clindentistry and although she is not ical, and laboratory techniques. allowed to work directly in the This mouth, she knows what's going to inary clinical practice at NAIT relations. happen and is prepared for all

The assistant saves the doctor money, time, and fatigue. The demand for trained dental assistants has become greater and greater and thus more training centers are being established in Technical Institutes and Vocational Schools across Canada and the U.S.A.

circumstances.

Canada has not yet set up an association for dental assistants but will have one in the very near future, so that all dental assistants, whether trained or not, will be able to be certified.

In hope of meeting the demands for trained dental assistants, NAIT has set up a program whose four

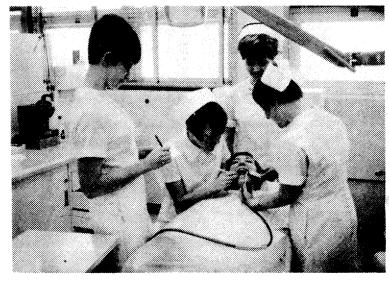
1. To provide the student with valuable member of the dental knowledge of dental theory adequate field. She started off as a scrub for understanding the significance and implications of all procedures knowledge, understanding and to be performed.

2. To provide the student with office management.

and through the co-operation of private dental offices in Edmonton and Calgary.

3. To provide the student with skills in recordkeeping, typing and

4. To impress upon the student the importance of professional ethis accomplished by prelim- ics and conduct and of good public



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DENTAL LAB TECHNOLOGY

dates back as far as the Phoen- appliances have esthetic function icians, Greeks and Romans. The and fit. practise of using gold crowns and bridgework flourished in Ethruria restorative dental materials as it and Rome as early as 700-500 now exists reveals that the field B.C. The arts of soldering and is extensive in scope with regard crown preparations must have been not only to the wide variety of well established, as this early work materials and techniques of manis preserved in museums.

The teeth used in these ancient sciences which are employed. appliances were either human or those carved from the teeth of the object of NAIT to prepare the animals. Wooden teeth were used prospective student with a genprimarily by the Egyptians who eral outline of all phases of comwere the Fathers of prosthetic plete dentures, partial replacedentistry.

There was very little progress made in the Dental Technologist materials and methods of manip- come highly specialized. Con-

An evaluation of the subject of ipulation, but also to the related

With this idea in mind, it is ment, crown and bridgework and ceramics.

The dental technician today is field until 1789. At this time, so highly trained that the dental porcelain was introduced for teeth surgeon can no longer compete and this was regarded as one of with the dental laboratory work as the most important events in the was expected of him less than 50 history of Dental Technology. Man years ago; therefore, it has been has continued to develop dental necessary for a technician to be-

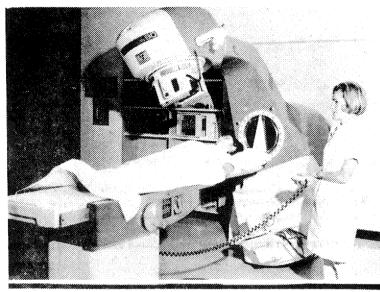
The field of Dental Technology ulation until today that prosthetic sequently, a technician must have a thorough understanding of dental materials and human anatomy, and must also obtain a high degree of manual dexterity in working with dental materials.

> After completing the course at NAIT, one must decide whether they want to become a Dental Technician or a Dental Mechanic. A Dental Technician is one who specializes in crown and bridge construction and partials and requires 3 1/2 years of apprenticeship. However, a Dental Mechanic is one who specializes in complete dentures and requires 18 months of apprenticeship.

> After apprenticeship, the opportunities for young men and women are present in Government Hospitals, Dental Laboratories, or your own Dental Laboratory.

> Entrance requirement is a High School Diploma.





BIOLOGICAL SCIENCES

This program has been devel- croscopic examination; and envioped in co-operation with the Ad- ronmental health laboratory provisory Committee to help fill the cedures. Technicians are also reincreasing national demand for sui- quired for field work involving: tably qualified Biological Sciences the collection and analysis of air Technologists. The need for train- and water samples, surveys of ed technicians in the life sciences plant and animal populations, ec-(biology, health and environment) ology studies, related activities. has been created by the increasing concern of all levels of government and related industries in biological research and control measures. The increasing human population will place additional stresses on the natural resources of this country and the world. Recognition of the into the preservation of wild life species, botanical and zoological; health sciences dealing with diseases of both other areas. man and animals; and concern over the increasing expenditures of pub-

iology; analytical analysis of bi- student. ological material; the instrumen-

Career opportunities are available in a wide variety of fields. These include: University Departments; Medical Schools; Federal and Provincial Experimental and Research Stations; Veterinary Laboratories; Fish and Wild Life Services; Environmental and Public Health Agencies; the Meat and Food Processing Industry; Biological Supply Houses, and many

in Biological Technology lic and private monies. Authorities have a good background in bio- x-ray procedures involve teamhave estimated that present needs logy and chemistry. An interest work with other medical personnel, exceed 30 per year on a national in working with living material the student spends part of his trainbasis and there is no doubt that and the aptitude for attention to ing period at the hospital and the the need will continue to increase. details are considered desirable. remaining time in the X-Ray Sec-Emphasis is placed on theoret- Direct contact with laboratories tion at NAIT. ical and practical instruction in or agencies involved in the aca broad variety of biological pro- tivities of major interest to the accredited training school in the cesses common to both Botanical student may be of value in deterand Zoological sciences. Labor- mining the type of work involved. atory activities will include: an- The course will demand a con- for training in Diagnostic Radioimal care; plant growth; bacter- siderable amount of work by the

tation, recording and analysis of plies should not exceed \$100.00 training school among the hospitals physiological data; preparation of per year. Attendance on occasion- or clinics in the province that plant and animal material for mi- al field trips will be required.

MEDICAL X-RAY TECHNOLOGY

of disease.

examinations undertaken in the hospitals and medical clinics in Alberta. During this time the size of the X-Ray department and the numbers of Radiological Technicians required has increased correspondingly. With the continual increase in population, and development of new radiological procedures there is an ever increasnicians in this area of patient cians to use the designation "R. vancement.

Medical X-Ray Technology is a two year program for either Diagnostic Radiography or Therapeutic Technology. An additional year is required for Registration in both Specialties. Before the training program at the Northern Alberta Institute of Technology was initiated in 1963, the entire training was given at the Accredited Training Schools in the X-Ray Departments in the larger hospitals. The training is now carried out as a co-operative program between the hospital school and the section at NAIT.

The X-Ray Technician spends most of his time with the patient. Following admission of the patient to Emergency, the first stop is frequently the X-Ray Department. Because of this constant involve-Individuals considering a career ment with the seriously ill or injured patient and as many of the

The student is accepted by the hospital. Application may be made to any of the four city hospitals graphy. Students come to NAIT from Red Deer and Calgary. The The cost of books and other sup- Edmonton Cancer Clinic is the only is accredited for the training of

The X-Ray Technologist is a both Radiographic and Therapeu- T." C.S.R.T. after his name which Over the past twelve years there the use of X-Ray, and various rahas been a three to four fold in- dioactive sources for the treatcrease in the number of X-Ray ment of patients with cancer and other diseases.

If the student has fulfilled the requirements for examination at entrance requirements. One interthe end of the two year training ested in people and their welfare, program, he may attempt the Na- may gain a great deal of satistional Examination set by the Cana- faction from this work. dian Society of Radiological Technicians. Certification following successful completion of these ing Certificate is available to a ing need for fully qualified tech- examinations entitles the techni- graduate who is interested in ad-

member of the medical team in tic Technologists. The students indicates proficiency in his choses the Hospital or Clinic. X-Ray is undertaking the Therapeutic pro- profession. This certification is playing an ever increasing role in gram attend the institute for the recognized across Canada, and medical diagnosis and treatment subject applicable to both courses. through reciprocity in the United Therapeutic Technology involves States, Great Britain and a number of other countries.

> X-Ray Training presents the opportunity of an interesting and rewarding profession to either male or female applicants who meet the

Post-graduate Training, a Fellowship in the Society or a Teach-

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MEDICAL LABORATORY TECHNOLOGY

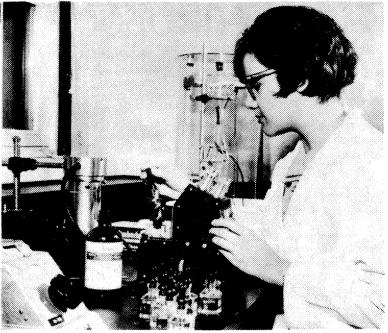
is one of the para-medical sciences which has evolved in the last forty years. It has its origin in the work of scientists of the late nineteenth and early twentieth centuries. The discovery by Pasteur and Koch of the bacterial and viral causes of such diseases as rabies, tuberculosis, and anthrax er's discovery of the RH factor led directly to the medical tech- led to the Blood Bank Technolonologist who examines physiological fluids such as urine, sputum or pus in order to identify the bacterium which is causing the infection; the elaboration of and the discovery of insulin by Banting in 1922 to the biochemical

acteristic of leukemia, and also by tical portion of their training at the Histology technologist, who an approved hospital. cuts sections of tissues which are 1/20,000 of an inch thick, and who stains (or dyes) these sections for examination by a pathologist. Landsteiner's discovery of the ABO blood groups and Weingist who cross matches the blood and kidney transplants.

so investigated the reaction of grounding in the theory underlymears for, among other things, the following year, the students most other fields will make more that there are days when things do) show a glimmer of humanity,

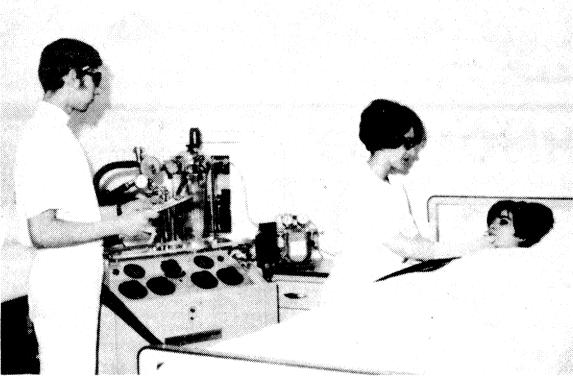
Medical laboratory technology abnormal white blood cells char- apply this knowledge in the prac-

In their ten months at NAIT, they are expected to acquire a bsic knowledge in six laboratory disciplines: Bacteriology (or Microbiology, as it is more precisely termed), Biochemistry, Haematology, Histopathological Technique, Blood Banking (or necessary for such sophisticated Immunohaematology, as it is now and revolutionary surgery as heart called) and Urinalysis. It is a year in which the student must quickly The term "information explo- adjust from a high school atmosa method of determining sugar in sion" is a common one; its ap- phere (where it is interesting but blood and urine by Benedict in 1913, plication to medical science means not essential to learn all that is that no longer is one person - taught) to a professional atmosthe doctor - able to perform, per- phere (where is is both essential technologist who determines, (a- sonally, the multitude of tests nec- and interesting to learn everymong approximately one hundred essary for diagnosis, and treat- thing). It is a year of adjustment other determinations) blood glu- ment (or control) of disease. This to the knowledge that within a very cose levels - most essential in is now the function of the med- short time someone's life will deboth the diagnosis and control of ical laboratory technologist, who pend on precise and accurate work; ends! Is there no compensation? diabetes. The work of Paul Ehr- obtains, at the doctor's request, a year in which the prospective Those who leave in the first few lich, that man of many talents, the pertinent information. This technologist must adjust to instrucwho not only discovered the first cannot be done either accurately tors who (almost unreasonably is none; those who stay (the great tered Technologists with the Canachemical cure for syphilis, but al- or efficiently without a thorough from the student point of view) majority) begin to realize that their dian Society of Laboratory Technot only expect but loudly and firm- painfully acquired knowledge is esdyes with tissues is still being ing the tests, and it is for this ly demand perfection; a year in sential and valuable; that they will, \$400 a month (not exactly starutilized by the Haematology tech- purpose that medical technology which a student must adjust to the if only in a small way, contribute vation wages); and that their innologist who examines blood students come to NAIT. During knowledge that technologists in directly to a patient's welfare; structors can (even if they rarely



money, work better hours and develop fewer ulcers; a year during which study is expected on week- the groundwork for some of the months of the course think there

go all right, instead of all wrong. in a lab; that they are laying most enduring friendships they will ever have; that they starting salary, after they qualify as Regisnologists, will be approximately



RESPIRATORY TECHNOLOGY

(INHALATION THERAPY)

As medical techniques have grown more complex, it has become increasingly difficult for the physician and the nurse to perform all the functions of medical care and treatment. From this development have arisen many modern paramedical specialists who serve as essential assistants to the physician in their designated areas.

One of these new paramedical specialties is Respiratory Technology. This new profession is often defined as the treatment and diagnosis of the many conditions caused by deficiencies or abnormaltities associated with respiration. The last decade has witnessed a great technological advance in the equipment used to treat such cardio-pulmonary disorders. Because of the complexity of the equipment, a new specialized technician in respiratory work has been developed both to treat the patient and to maintain the machinery.

ture. A comprehensive two-year entire medical team and all suptraining program for Respiratory portive care toward caring for pa-Alberta Institute of Technology and taining the actual equipment used some of the teaching hospitals in such care. of the province which possess an accredited school of Inhalation according to the individual hos-Therapy. The course consists of pital's particular situations. These two phases: ten months of didac- responsibilities will include: tic lectures and laboratory ses- 1. Technical Maintenance: As the function and maintenance, micro-tial. biology, pharmacology, pathology 2. Therapeutics: Serving the patice during the second year.

work. By the very nature of hos- ation therapy, (c) how to accom-

This new profession offers you pital work, the technician is alan opportunity to share in its fu- ways working with people, and the Technicians is now available util- tients with cardio-respiratory disizing the facilities of the Northern orders and the other will be main-

The technician's duties will vary

sion conducted at NAIT, followed equipment utilized in treating paby twelve months of clinical in- tients is extremely technical, he struction in a hospital training must know how to maintain, adschool. During the two-year pro- just and repair equipment to engram such subjects as physics, sure its proper function and rechemistry, anatomy, and physio-sults. For this reason alone, some logy, equipment design, equipment understanding of physics is essen-

and nursing arts will be present- tient according to specific instruced along with actual clincial prac- tion from the physician. To do this effectively he must under-The Respiratory Technician's stand (a) the physical and psyresponsibilities and tasks genera- chological needs of the patient, lly make the hospital his place of the doctor's goal in using inhaltechnique and equipment.

of advancement to a senior po- in lifesaving situations if often sition in the hospital department encountered, and, therefore, of is excellent. The duties of senior course requires a stable person and supervisory staff include con- to be able to cope with such probtrol of personnel treatments, pa- lems. The students invariably find tients on therapy, supplies, med- the profession extremely challengical gases, and equipment, all of ing and rewarding because the work these require systems, records is varied, new and interesting. and correct management. These This variety of work also means duties will require and produce that the field is open to both men administrative ability.

4. Teaching: The technician is rein the use of equipment.

is very necessary.

In order to do well in this this and other work. field, a person should have a genuine interest in people and their an unexcelled opportunity for a welfare. One must have the ab- challenging and rewarding future.

plish this goal with his knowledge, ility to work in harmony with members of the staff and other 3. Administration: The possibility hospital personnel. Patient care and women.

For years to come the demand sponsible for instructing patients will far exceed the supply. There and members of the patient's fam- is an urgent need for pioneers to ily about the use of their therapy. establish new departments. With The technician is also involved the profession so new and the dein the teaching of other personnel mand so great, numerous schools are being organized and the need 5. Development and Research: Re- for teachers in Inhalation Therspiratory Therapy is still in the apy is pressing. Many centres infant stage. The need for re- throughout North America are search, development and testing planning cardio-pulmonary funcof new equipment and technique tion laboratories and there is a need for post graduate studies in

Those willing to work hard have

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GAS TECHNOLOGY

The Natural Gas Industry is one begins the student's studies. The duction of Natural Gas has more than doubled and the future promexpansions in all phases of the Industry.

The Gas Technology Advisory Committee, a group of representatives from the major gas comthe industry can absorb up to 40 Gas Technologists per year. Considering the enrollment limit of 45 students and less than fifteen diplomas awarded each year, it is easy to account for the high starting salary of the graduate technologist. The average starting salary is presently among the highest obtained by any of NAIT's grad-

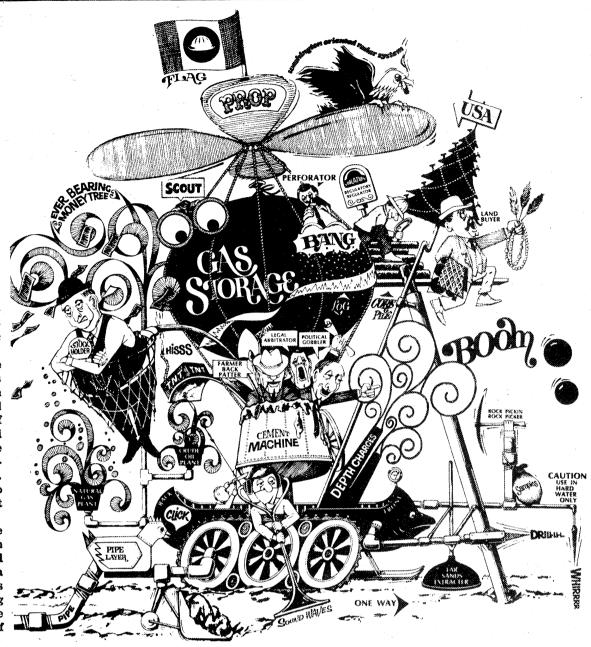
The Gas Technologist is trained to fill the gap between the skillprovide interesting and challenging opportunities.

The Gas Technology course is a two year program which commences in September and is com-

A basic review of mathematics, chemistry, physics and English interest to the public.

of the fastest growing industries remainder of the first year inin Alberta. Since 1960 the pro- cludes courses in such subjects as geology, reservoir mechanics, drilling operations, surveying, ises even greater increases and drafting, statics, dynamics, report writing, organic chemistry and equipment testing. The second year is made up of several basic courses covering the following fields of study: power plant engineering, panies, has recently indicated that computer programming, instrumentation, strength of materials, calculus, organic and inorganic chemistry, design of gas processing equipment, natural gas analysis, formal report writing, industrial chemistry, gas instrumentation, electronics, gas plant operations, materials of construction, thermodynamics, economic evaluation and industrial relations. Upon successful completion of the two year course, the graduate is given a Technicians diploma which ed tradesmen and the professional certifies that he is a Registered Engineer. Graduates may begin Technician III in the province of their careers in either the En- Alberta. In addition, successful gineering Technology field or the Gas Technology graduates have Operations field, both of which the opportunity to write the Alberta Fourth Class Steam Ticket. This is the first stepping stone to a secure and rewarding career at a Steam Engineer.

Gas Technology's Open House pleted the first part of June. Up- display will be located in room on acceptance of a student's ap- E213 (second floor of the Technical plication and payment of tuition Building). We hope a model of a fees, the student spends two years gas processing plant, gas analysis at concentrated studies in the In- and measuring equipment along with literature and opinions of the Gas Technology students will be of



CHEMICAL TECHNOLOGY

course is being offered by the Chemical Technical with a second Chemistry Department of NAIT. year option (Chemical Research The rapid growth of the Chemical Technology) for honor students. increased the demand for com- ganic, oil chemistry, instrumen-

determinations, to reproduce in-

Chemical Technician, one will learn to perform qualitiative and Industry in Alberta and Canada has Theory classes in inorganic, or quantitative analytical tests and

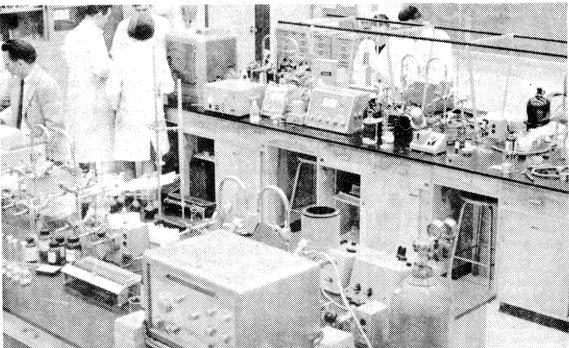
A practical and challenging A two year course is offered in of about 30 hours. As a student dustrial procedures on a laboratory scale, to operate various analytical instruments and in general to get a good background of chemical knowledge.

Industry has been very generous in providing scholarships and awards for students who prove their academic merit. Several hundred dollars has been allocated to Chemical Technology students.

A graduate of Chemical Technology is employed in a variety of industries: Chemical, Petroleum, Plastics, Electrochemical, and Food industries as well as Research Institutions, Consulting Firms and The Atomic Energy Commission of Canada, NAIT offers a student placement service where future employers come to the Institute to interview the students. An average starting monthly salary of \$425 may be expected with the range being \$355 to \$525. Opportunities for advancement may depend on position, type of work and company policy. Each student of the Chemical Technology is eligible for student membership in the Chemical Institute of Canada (C.I.C.) which is the National Pro-

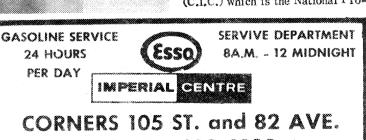
fessional Organization for Chemists and affiliates. Upon graduation, student members are elegible for certification as Chemical Technologists by a program of development recommended by the C.I.C. This includes on the job development, extension courses, or University courses.

The course requirements ar listed in the NAIT Calendar and any prospective students are encouraged to visit the Chemistry department and look our facilities over. In order to avoid disappointment, register early.

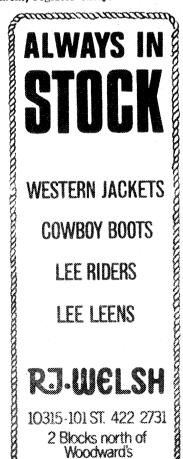


petent Chemical Technicians. The tation and biochemistry are ap-

requirements of Industry and Re- plied in the lab where the stusearch must be filled and the North- $\,$ dent $\,$ performs $\,$ experiments that ern Alberta Institute of Technology illustrate the thoughts presented in has endeavored to do its part in the lectures. The practicality of providing programs which will give this course is emphasized in the students adequate training in the amount of time the student the field of Chemical Technology, spends in the laboratory where he A great potential exists in the or she learns good laboratory techfield of chemistry and students nique and procedure. The first year choosing this field will have pick- course includes 12 lab hours and ed an interesting and continually the second year course averages 20 lab hours out of a total week



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EXPLORATION TECHNOLOGY

ation Technologists were trained on the job by oil and mining companies. Because of recent advances in exploration techniques and use of increasingly complex equipment many have lacked adequate training in geology, geophysics and electronics. This technology offers complete training in the above fields.

Geology and geophysics form the spearhead of oil, gas and mineral exploration. Exploration includes the finding, interpretation, and correlation of information necessary to determine drilling locations and the compilation of subsurface data and conditions as determined by drilling. Geophysical exploration runs the gamut from diverse methods of application in the field to complex decision making at the business end. Geology is the knowledge most central to the oil and mineral industry, and, as the industry can't survive off past discoveries, it will likely continue in this role. Demand is currently at a high level for technologists trained in geology and geophysics and the exploration leap into the Arctic islands this year will have the effect of expanding opportunity

technologists collect and classify forestry.

Up to a few years ago Explor- basic geologic data used in the interpretation and mapping of structural and reservoir characteristics. A technologist will also be employed in fieldwork which includes wellsite geology and assignment to geological surface parties during the summer months. He may employ seismic, gravitational, magnetic methods and electronic and geochemical applications in his search for mineral wealth. He will also work with record computations and preparation of seismic cross-sections and

The profession offers something for everyone - whether you like to spend a major part of your time working in remote places like the Canadian Arctic or in air contioned comfort of the head office where you will have access to the latest computers and continuous technical upgrading.

For the technologist there are many opportunities to specialize including geophysics, geochemistry, mineralogy, structural geology, stratigraphy, paleoentology, economic geology, geophoto mapping, and oil, gas, mineral correlation. He also has the opportunity to enter such allied fields as oceanography and soil studies In a developed area, exploration in the fields of agriculture and



ous training lies ahead and you study in your course will be val- why not drop in and see our dis-

Should a person plan to enroll est a fair trails. In any event you finally enter. If you're interin exploration technology, rigor- many of the subjects you will ested in Exploration Technology should intend to give your inter- uable to you whatever profession plays.

The Drafting Technology program is one of the best and most fully-rounded programs in the Institute. It is a stepping stone into a varied number of fields such as: architectural, structural, municipal, electrical, survey and topographical. While the Drafting program does not pretend to turn out experts in all fields it does offer to the students a food working nowledge in these fields.

The communication of ideas from the designer to the manufacturer, the planner or contractor must be done in such a way to avoid misunderstanding of that information. The trained draftsman offers the means by which that information may be translated from the language of the designer to the information necessary to the builder. The drafting technology program educates the students in the correct graphical communication of ideas through: the developing of skilled and efficient use of instruments and equipment; the ability to use reference material such as catalogues, codes and specifications.

With a working knowledge in several fields, there is a wide range of job opportunities available to the graduates of this program. There is a definite need in the employment field for versatile, broadly trained technicians, and on a long term basis a good technical knowledge is the key to promotion into design and supervisory positions as well as offering a good foundation into a future formal

The graduates from Drafting Technology are those who have sacrificed most of their weekends and weeknights in the pursuit of the ancient and honorable trade. The work load in the Drafting program is rather demanding at the best of times, however with the field trips, parties and the thought of the old diploma, the time passes quite pleasantly and a little too

For more complete information on the Drafting program attend the drafting display in E 205. the future. A whole new attitude of architectural technology. and approach to life will shape EMPLOYMENT our future activities; a new en-

THE BUILDING INDUSTRY

changing. No longer is it possible The work is thus diversified and for the glorious architect to sit the demand fluctuates with the pace isolated in his ivory tower con- of the building industry. Working ectric variations of previous build- and the salaries are commening building industry has already tive of the individual. become a diverisified giant re- THE NAIT PROGRAM

Today our world is changing skillful, knowledgeable and talrapidly; our ways of doing things ented in his own field of endeavor quickly become archaic; our en- as they make their vital contrivironment is becoming antiquated; bution to the vast operation of our world is becoming inadequate. creating the spaces and environ-Our lives are changing. Not only ments of today and tomorrow. Inthe manner in which things are cluded in this large integrated done, but even the very things that team that produces our new buildmust be done will be different in ings are graduates from schools

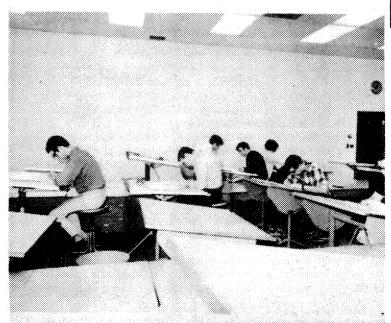
Opportunity exists in many fields vironment will be required. To- for graduates of the architectural morrow's world will be different, technology program. In addition as far removed from us as we to architects' offices, graduates are from our ancestoral aborigin- find employment in the area of engineering, urban planning and redevelopment, building construc-In our rapidly changing world, the tion, building materials supply and techniques of building are also sales, and governmental agencies. ceiving and busily producing el- conditions are usually very good, ing solutions. Today's ever chang- surate with the ability and initia-

Each of these people must be portant role in the changing world built by the student themselves.

of the building industry. The program does not intend to produce architects, engineers, contractors, or tradesmen, although an understanding of these professions and trades are developed by the student during his studies here at NAIT. The courses offered develop skills in architectural and engineering, drafting, detailing and presentation, as well as a basic understanding of architectural and engineering design, surveying, supervision, and office practice. Architectural technology not only teaches present techniques but also emphasizes fundamental principles which will enable the student to make a vital contribution to the building industry as it constantly changes its methods, requirements and goals, Therefore the program at NAIT in under constant review and alterations are made as they are required to meet the changing demands of today's

OPEN HOUSE DISPLAY

The east foyer of the technology wing contains a display of drawings, designs, projects and models quiring the extensive co-operation The program of acrchitectural by current students in architectural of hundreds of qualified men and technology at NAIT aims to pre- technology. These are displayed women working on each project. pare the student to fulfill his im- in an environment designed and



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ELECTRONICS

omnipotent switch.

forth from the realm of the science- initial enrollment since the time fiction novelist and into reality.. of NAIT's opening. and has started a new Era. There is not a facet of our lives that is the student with the basics of elnot is some way connected with ectricity and the basics of trans-Electronics, and it is courses like istor design. Many hours will be the one offered at NAIT that pro- spent doing lab work to obtain duce the Electronics Technicians skills and knowledge required to and Technologists that are required enter research or industry. in ever increasing numbers to create, service and maintain our varied and more detailed. Courses Electronic livelihood.

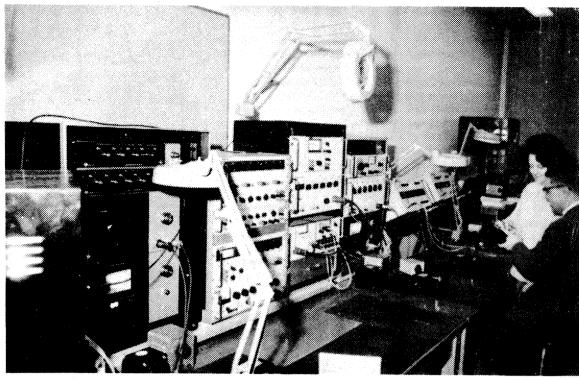
through familiarization of the sectronics, geophysical applications, applications. precision calibration. Together ment and facilities offered at NAIT. offered this year.

The very word itself brings Field trips are organized, guest visions of space-ships and banks lecturers are invited to speak on of computers and flashing lights employment opportunities in the and buildings filled with humming, field, student co-operation and parcrackling equipment ready for the ticipation is encouraged via an able destruction or salvation of the faculty, library facilities and night world. Indeed, the advent of laboratories that are available both science-fiction brought with it the to the spare-time inventor type, concepts of Electronics even be- and the student having difficulties. fore Thomas Edison flipped the The Electronics Department is the largest at NAIT, and is growing But now Electronics has come phenomenally, nearly trebling its

Year A of the course will provide

In Year B, the courses are more in Communications, Instruments, The Electronics Engineering De- Television and Transistor Cirpartment at NAIT covers three cuit Design are offered. The stuyears of extensive study of the field dent is provided with the opporfrom the basics of the first year tunity to study some complete electronic systems such as, a transond and into the specialized options mitter and receiver, a television of the third year - medical elec- set and instrument operations and

The last year brings greater with comprehensive lectures, the emphasis on computers and supcourses are aided with laboratory ervisory control as applied to inexercises with the precision equip- dustry. Optional courses are also



lation can enter the AB program ics, and Communications. Also, in which Year A and B are com- the opportunity for the Electronic stitute of Electrical and Electronic bined into an accelerated course. Technologist to move into man- Engineers. This is a professional High School graduates who have agement is increasing every year. organization set up for the extaken Electronics 22 and 32 are On the social scene the Electronic change of current information of admitted directly into Year B. Technician Student's Society of- importance to the electrical and Graduates in Electronic Techno- fers a varied program including electronic industries. logy have a wide and varied field tours. Also available to the Elof work opportunities to choose ectronic Student is the opportunity from. Some of them are: Com- to operate a closed circuit teleputers, Research, Bio-medical El- vision system. Any student in El-

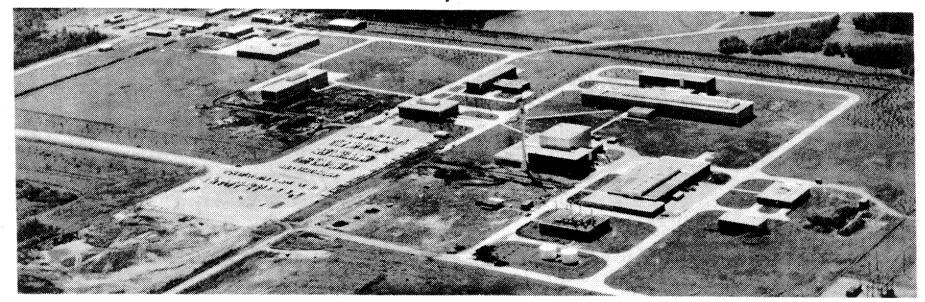
Anyone with a senior matricu- ectronics, Exploration Electron-

ectronic Technology may become an associate member in the In-

To give you a better insight into the Electronic Technology course, visit interesting displays in the

WHITESHELL NUCLEAR RESEARCH ESTABLISHMENT

PINAWA, MANITOBA



EMPLOYING GRADUATES IN:

MECHANICAL

ELECTRONICS and MATERIAL TECHNOLOGIES

ELECTRICAL

The Whiteshell Nuclear Research Establishment is the second major research laboratory of Atomic Energy of Canada Limited, a crown corporation. The laboratory site adjoins the northwest corner of the Whiteshell Provincial Forest Reserve, 70 miles northeast of Winnipeg, Manitoba, with modern plant buildings built along the banks of the Winnipeg River.

Using the world's only successfully operating organic cooled reactor as a test facility, 750 scientists, engineers, technicians, and supporting staff are investigating and developing new materials for the further development of the CANDU (Canada Deuterium Uranium) type commercial power reactor into a highly efficient economical power producing utility. By 1975, AECL expects some 1250 people to be working at WNRE.

The optium complement of 1250, WNRE management expects, will be large enough to execute a productive research program, while being small enough to allow for effective, interdisciplinary communication between technologists working at the research and development projects. People and ideas are the Whiteshell Research centre's prime assets, and its products are new, nuclear materials data and reactor designs.

The personnel, philosophy, recognising the need for continuous post-graduate training of technical and non-technical staff, encourages each individual to par-

ticipate in internal and external training programs. Thus, internationally known scientists and engineers working at the establishment give frequent seminars on the ideas they are researching and advances in their disciplines, advances they may not have yet published in the periodical literature or textbooks. Many personnel travel to the University of Manitoba to take sponsored credit and noncredit evening courses to further their own qualifications.

Most of the WNRE staff live in the town of Pinawa, a modern town carved out of the Whiteshell forest in a joint development by AECL and the provincial government. Town planners have designed the community to take advantage of the forest setting on the banks of Sylvia Lake, a widening of the Winnipeg River, 10 miles east of the plant. Pinawa sits almost in the heart of the Whiteshell resort area, offering a full range of summer and winter recreational activities.

The town and research establishment will grow continually, if not in size then in the breadth of its personnel effort. One fundamental policy at WNRE is that no man is invited to join the establishment unless the proper support can be made available to him. Modern science demands modern sophisticated instrumentation. As a consequence, the Whiteshell Nuclear Research Establishment has one of the most utilized laboratories and test-reactors in the world

INSTRUMENTATION

to help keep them abreast with new developments in the automatic control field. As the course progresinstrument repair, and installa- find the entire course is highly tion. Tube fitting is also studied organized and very efficient. as well as a short course in welding. At this Institute we are competent equipped instrument lab in attending a two or three year

In the future it is hoped that a in Canada, More spacious and fully post-graduate course will be of- equipped quarters were obtained fered to Instrumentation graduates this year, since the new Jay-wing was finished.

This course is relatively new, and has had, and is having growses, the amount of time spent in ing pains. However, most of the the lab increases. In the lab the early problems have been elimstudent will learn fault analysis, inated and the new student will

You may wonder what the job opportunities are in this field. fortunate to have perhaps the most After all, there is not much point

da there are only three institu- the student to study them all. the demand for graduates last year student a sound knowledge of the are a person who is able to meet \$480.00 the year before. These jobs isting industrial instrumentation, strumentation Technology. were divided primarily between industry and sales positions.

Many people are unfamiliar with what is involved in Instrumentation Technology. Probably one of the best definitions is that Instrumentation is the science of applying devices and techniques to measure, record, monitor and control plant equipment and process op-

Instrumentation Technology is a relatively new and expanding field, requiring a great degree of knowledge in electronics, pneumatics, and chemistry of processes. Because it is a new field in Technical training, there is a lack of properly trained people in industry. It is therefore the function of this Institute to train young men to function efficiently in the

program if after that time you are of the rapid development of new

This has been a brief outline as unable to obtain suitable employ- instruments and the large number to what instrumentation is all ament. By all standards the op- of existing types of automatic con- bout. Of course there is much more portunities are excellent. In Cana- trols, it would be impossible for in this field than can be learned from books alone. Practical extions training instrumentation Therefore, the instrument theory perience and a good mechanical technologists. Consequently courses are designed to give the aptitude are great assets, If you exceeded the supply, and the av- principles of automatic control, the requirements as set down by erage starting salary was \$550.00 and in this way enable him to cope the Institute, there is a world per months, as compared to the with practically all types of ex- of opportunity awaiting you in In-



Photography, as never before, of presentation. has taken on a new responsibility to the people and economy of Can- are incorporated in the second ada. Once a medium of pleasure year studies, with the techniques and beauty, photography is now helping to contribute important information towards the production practical instruction. Advanced of saleable and competitive goods.

The Northern Alberta Institute of Technology is helping to meet this new responsibility by offering a course in photographic technology.

Pl rac. the cu solve or ou

The course the im photo qualit: gener. clean dark -150 $clude_{\mathcal{S}}$ touch

Color processing and printing of control and production in each clearly indicated by theoretical and black and white photography, both portrait and commercial, is continued with further instruction in the laboratory and on location. Basic motion picture procedures including editing and sound re-

> his career life. Broadcasters are nouncers, salesmen, public rethe sense organs. They are its lations personnel, or producers informers, its detractors, and its and directors, they will be reemotional outlet. Whether the sponsible for informing people efgraduates of RTA enter the broad- fectively about the world, their cast industry as performers, e- surroundings and themselves.

ne will probably spend most of quipment operators, writers, an-

CONGRADULATIONS TO THE STAFF AND STUDENTS OF NAIT

A STUDY DONE AT THE UNIVERSITY OF ALBERTA, INDICATES 50% OF OUR LISTENERS ARE 21-35 YEARS OF AGE. NAIT STAFF AND STUDENTS WHO PREFER "QUALITY" LISTEN TO THE "SPARKLING SOUND" OF RADIO 1110



"THE GOOD MUSIQ STATION".

SURVEY TECHNOLOGY

be patient, aggressive, have a terrific knowledge of mathematics do know have gone wading in stagnant beaver dams, walked miles misled by thinking that this life in this course. is one of solid hardships. Not truck out of a creek.

best teacher. But don't limit your- his choice. self to one phase of surveying. You may not prefer one type but and fifth year of high school, forget find your chosen field in another. it! This is an adult course and They vary from city surveying you have to work on your own. If which is very precise, to seismic you want a preparation course, this surveying where ten feet is an course at present is in the vague acceptable error in distance measurement.

But where are the shortcuts? There are always shortcuts in courses for further information. every occupation. You may think the course here at NAIT is one. Well, let me clue you in. If you their opinions? are experienced in surveying, it is a waste of time and effort because the course is geared toward the man going for his pro- but if you are outdoors minded it fessional status.

courses should be dropped for ing. Perhaps I shall meet you there. the benefit of students. The variety in a surveyor's life is lessening,

So you want to be a surveyor!! professional draftsmen are used Do you realize that you have to for drafting plans, computers are used for complicated mathematics.

The main portion of the students and have a strong back. You may enrolled in this course believe the never be as comfortable as your extracurricular courses and non neighbour is, working in his little essential courses should be dropoffice, but you will get your share ped and a one year course offered of frostbite, wet feet, mosquito which will give a person a working bites and blisters. How many people knowledge of problems which will be encountered.

This will give the large majoracross soggy musket and had their ity of the students a chance to faces slashed while trying to cut learn all that is necessary in one willows with a dull axe? If you year, instead of literally wasting a have the guts to become a sur- year learning useless facts and veyor, then welcome. Don't be developing doubts as to why he is

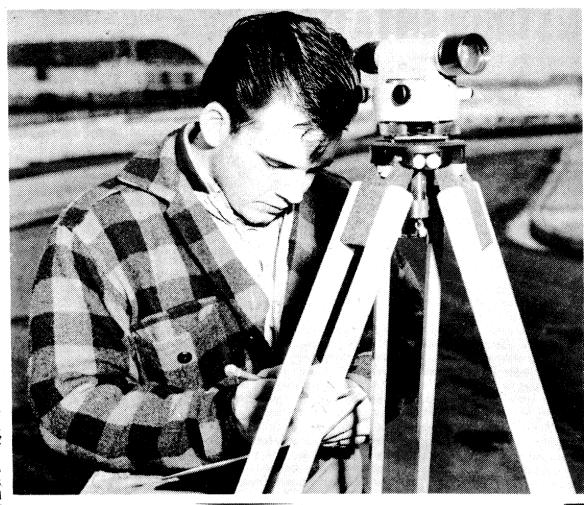
A second year could then be quite. You may be working in the offered at NAIT or SAIT where city near a nurses' residence, students could enter a crash proflying up to Melville and finding gram in preparation for their proa raging blizzard, or having a fessional examinations. This would riot pushing your four-wheel drive result in better training and preparation for the exams. The per-What do you have to do to join son going surveying and not after this group of ultra-hardy men? his professional license, would then Practical experience is always the be released sooner to the job of

> If you are expecting a fourth direction of a surveyor's education.

Ask a student enrolled in the Instructors are very biased, but after all, aren't they paid to give

Surveying is an enjoyable career. The wages are the best, the working conditions are far from the best, is a field of growing opportunity. The math course in relation to Just over the hill is a whole new survey is adequate but other world of unsurveyed territory call-

> GERALD WHALEY Survey Year 1



Civil Engineering Technology is fessional people, and vary dependa course in the training of semi- ing on the experience and personprofessional people: draftsmen, al capabilities of the employee. surveyors, estimators, designers and materials inspectors to aid the Civil Engineer in modern construction.

Qualified graduates are employed in various engineering fields wherever there is construction. Approximately one-third of the graduates are employed by engineering consultants and material testing companies. This includes the study, design, construction and mains, reservoirs, sewage disposing field includes the laboratory manager. Advancement is on erials used in construction. An- as opportunities present them other third of the graduates are selves. employed by private contractors

Advancement opportunities are good for graduates because of the increasing amount of construction and the resulting expansion of the need for technology graduates. Many graduates start as junior inspectors, draftsmen, and estimators. The road to seniority in these fields involves experience and diligence, but many graduates will succeed. Civil graduates are given basic knowledge required of inspection of roads, sewers, water job superintendents for private contractors: grads may start work al plants, water treatment plants, as assistant to the superintendent harbour installations and irriga- and advance to superintendent, field tion canals. The materials test- superintendent and construction and field testing of soils, cements, merit basis, and so the individua concrete, asphalt and other mat- dictates his rate of advancemen

To become a Civil Engineerin as estimators, draftsmen, survey- Technician, a person must hav ors and job superintendents. The a Civil Technology diploma. Th remaining third work for various Civil Technology course at NAI governmental agencies as drafts- is a two year program. Entrance men, surveyors and inspectors. requirements are a high school di-Apart from the engineering fields ploma or equivalent, with at least mentioned before, there are grad- a "B" standing in mathermatics uates involved in technical sales, 30, 32 or a combined average while still others are continuing of mathematics 30 and 31, and their education at university level. credit in Physics 30 or 32. Ad-Salaries for graduates are com- ditional data may be obtained from parable to those paid semi-pro- the Office of the Registrat, NAIT.

TELECOMMUNICATIONS TECHNOLOGY

is a relatively young technology at NAIT. With the present trend towards the use of specialized technical equipment in industry, the need for more highly trained technicians in the Communications industry is on the increase. The major aim of this 3-year program is to train students at a posthigh school level to become assistants to communications engineers. Telecommunications Technology deals with the broad field of telephone, carrier, microwave and other communication systems.

The first year of the program provides students with a good understanding of basic electrical theory and practices, technical mathematics and physics. During the second and third years, extensive training in telephone company operations prepare the Telecommunications technicians to carry out both field and office duties. In the well-equipped communication labs, students are trained to perform many of the duties required to operate a communications system.

Graduate technicians will be able to carry out the various installations and maintainence programs in the field or will be able to serve in various supervisory capacities. Graduates can assist engineers a list is available through the in designing and testing the new Registrar's office.

Telecommunications Technology components. Their basic knowledge of electronics enables them to embark on a variety of careers in the electronics industry.

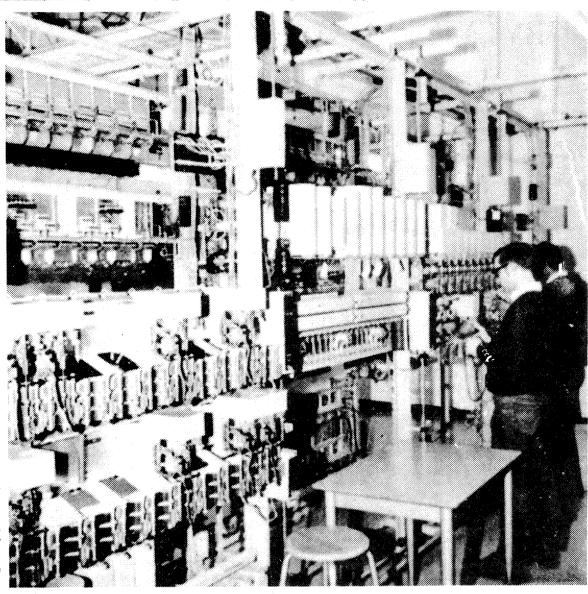
Many rewarding careers with communication companies are being offered. The demand for telecommunication technicians continues to exceed the supply. Only the individual's ability will limit his advancement in the communications industry.

The Placement and Careers Planning Office of the Canada Manpower Centre, maintained on the campus, assists students in finding suitable employment.

The minimum entrance requirement to enter the 3-year program is an Alberta High School diploma with a "B" standing in Math 20 or 22. Math 30 or 32, Physics 30 or 32 and credits in English 30 or 32 with an overall average of 55% are required for the 2year accelerated program.

Tuition fees for each of the three years are about \$79 per year which includes the Student's Association membership fee and a \$5 registration fee.

Book and equipment should not exceed \$125 for each year. Outof-town students may expect to pay from \$70 to \$85 per month for room, board and laundry. For those requiring accommodations.



unit, can be set up to stimulate the field of air conditioning.

almost any system encountered in limited. The graduate student of starting wages of last year were past years' have had no problem in \$425 to \$475.

Job opportunities are almost un- obtaining employment. Typical

AIR CONDITIONING AND REFRIGERATION

but we are aware when the air we breathe and live in becomes unpleasant. Technology of this century provides us with the means to treat air for year-round comfort where we live, work and shop. In colder climates some means for keeping warm has always been essential, but as the public have become more sophisticated in their habits and technologies, demands for complete airconditioning (refrigerated cooling) has also increased.

Building construction has changed, the old massive structure of brick and stone have been replaced by glass, curtain walls and concrete. The small specific mass of modern buildings involves rapid heat gain and heat losses due to sun, wind and temperature changes. These changing conditions have brought with them great problems for the heating and airconditioning system design-

Air conditioning, refrigeration and heating systems have therefore adapted towards greater refinement to meet the above noted demands. The benefits of skill of communication is considtotal climate control like air itself are often intangible. Can you and emphasis is placed on oral measure the relief from enervating humidity of a heat wave, protection from dust and city odors in the atmosphere, or healthy warm in the winter?

Often benefits in productivity and efficiency in an office or factory can be calculated. These calculations show that climate control pays in dollars as well as many facets of the systems to be in high morale. The Airconditioning and Refrigeration Technology course is designed to prepare grad- conditioning. Different lab units uates for entry into the highly are available for student demonair conditioning and refrigeration. ially designed air conditioning test

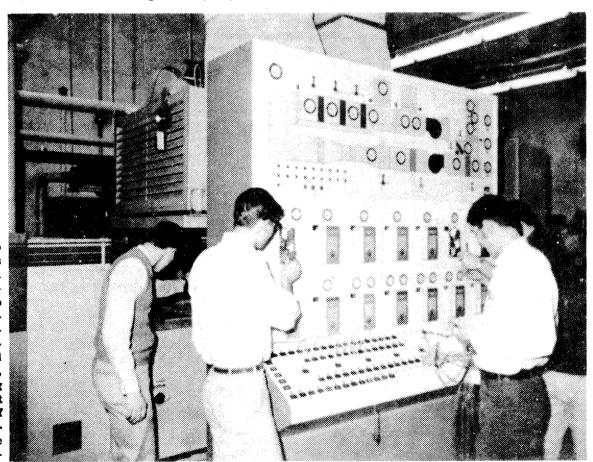
We can't see or touch the air, The opportunities for employment are many.

Graduates are presently being employed by mechanical equipment manufacturers and distributors, government departments, consulting engineers, mechanical contractors and building maintenance departments.

Assignments are usually in design with emphasis on mechanical drafting, or in maintenance involving operation and repair of existing complex systems, or in sales involving the application of specialized products for new systems.

The primary objective of the two year course is to train the students to become highly skilled technical assistants to the professional designer or engineer. Therefore to accomplish this objective the major portion of the course is devoted to refrigeration and air conditioning theory, refrigeration and air conditioning lab., control lab., and drafting. The Airconditioning and Refrigeration Technician must acquire a considerable amount of technical knowledge to the solution of practical problems. The ered an integral part of the course and written English. Related subjects also included are plumbing, welding, sheet metal work, machine shop training and thermodynamics which give the student an insight into other aspects of the airconditioning and refrigeration

An elaborate lab set-up gives encountered in commercial and industrial refrigeration and air specialized and needed field of strations and tests. A\$19,000 spec-







NEW YORK LIFE INSURANCE COMPANY 1502 ROYAL BANK BLDG., EDMONTON 15, ALTA Bus. 424-5104



Wayne Cotton



FIELD PRACTICE IN FORESTRY.

FORESTRY TECHNOLOGY

The management of our renewable natural resources is gaining an ever increasing importance in today's world. Faced with the prob- logy will find employment in govlem of accommodating an exploding population, the wise use of our ranger, park warden, cruiser, remaining wild lands is becoming imperative. One need only connewsprint he is reading now, to

The forest technology course at NAIT trains individuals to become part of the management team. Since forestry can be divided almost equally into engineering and biological sciences, a thorough grounding in both is given at the Institute in the first year. Instruction includes the subjects of botany, zoology, soils, wood technology, and meteorology. The technical training involves the use of cruising instruments, construction materials, surveying and drafting equipment. Theory is supplemented with practice in the laboratory and field.

Armed with this knowledge, the student then proceeds to the forestry school at Hinton for the second year. Here the emphasis is placed on conservation and practical wood's experience. Fire control, photogrammetry, silviculture and other related fields are all taught, with an eye towards duplicating employment conditions after graduation.

What kind of person succeeds at this course? A desire to work out of doors with living material is mandatory of the prospective student. However, it should be emphasized that this is not a course for people interested primarily in studying wildlife. Forestry today tends to deal in the botanical, not zoological aspects of nature. Coupled with this liking of the outdoors, an aptitude in the physical andbiological sciences is necessary. Forestry at NAIT makes use of both, and there is an unparalleled opportunity to follow one, or combine them in a forestry career. Finally, the technician must be able to communicate and deal with people. The day of the lone forester disappearing into the woods for months on end is over. Nowadays most work is carried out by a team of men, however this does not detract from the chance

initiative.

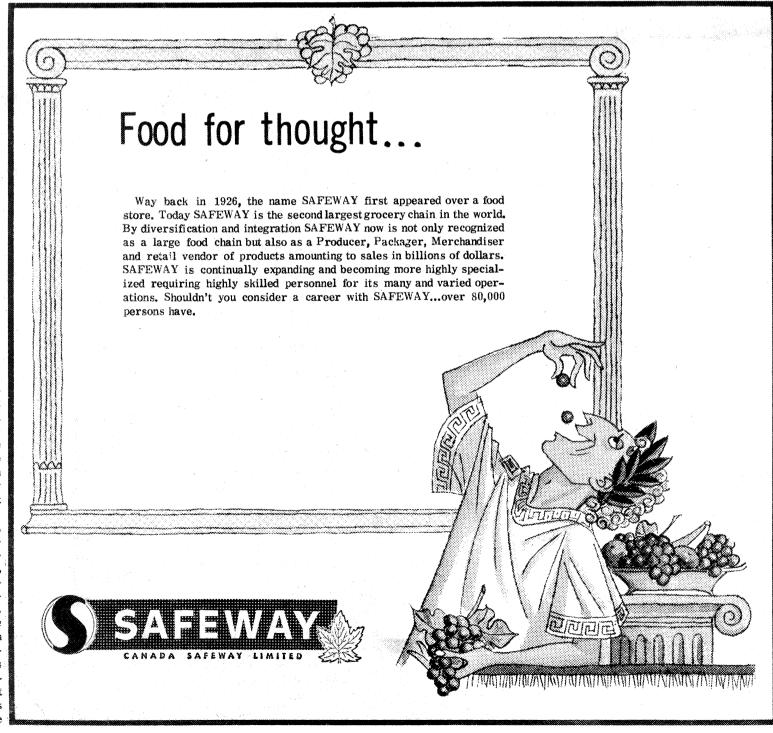
The graduate of forest technoernment or industry as a forest scaler, fire control officer or research technician. If travel is your countires in managing their for-In all cases, opportunity is lim- counterparts.

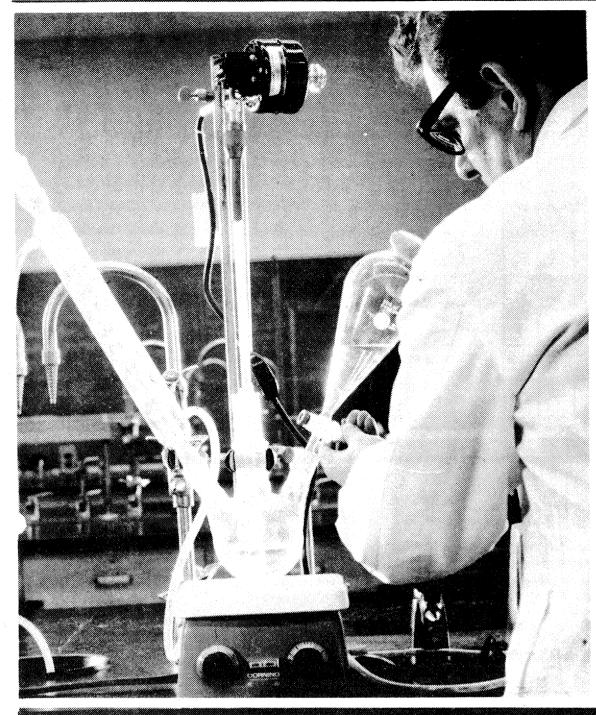
to use one's own judgement and ited only by individual interest and ambition.

Nature does not run to a manmade timepiece. So to you, who don't mind sometimes irregular hours and adverse conditions, forestry offers a career of variety sider the house he lives in, the bag, then CUSO offers a means of and challenge. The rewards of a water he uses, and indeed, the very work in aiding underdeveloped healthy outdoor life in a stimulating atmosphere, compenrealize the consequences of losing ests. Pollution control may also sate entirely for any lack of conour forests, ranges, and water- offer employment in the future. veniences enjoyed by your urban



'BULL OF THE WOODS'' contest at Hinton Fall Camp.





PLASTICS TECHNOLOGY

THE PLASTICS AGE

material.

This is an indication of the rate of progress of technological advance in plastics as well as the great rate of expansion of the Plastics Industry.

Canada's plastic industry has a manufacturing industries.

Plastics courses at NAIT

The increasing demand for trained plastics technicians has resulted in a two-year course in Plastics Technology at the Northern Alberta Institute of Technology.

This full-time course prepares the student to enter any area of the Plastics Industry, to understand and appreciate his employer's requirements and the needs of the employer's customers.

With a new and sophisticated laboratory, factory production can be simulated so that the student is introduced to actual industrial practice and manufacture as well as the theoretical aspects of plastics materials. In addition, the student is introduced to the principles of machine design, mould and die design, plant layout and associated topics.

A basic grounding is given in business studies, work study and machine shop practice.

language for report writing, data collecting etc.

Visits to plastics processing and cations.

raw materials production plants By the mid-1980's, on a volume complement studies; guest lecturbasis, more products will be made ers who are specialists in their from plastics than from any other own particular fields, participate in keeping the course abreast of current developments in the technical and commercial areas of the plastics industry.

JOB OPPORTUNITIES

The range of jobs available for growth rate twice that of all other trained plastics technicians is wide. Positions occur in Production, Research and Development, Customer Technical Service, Sales - Technical and Commercial, Marketing, Product Design, Applications, Testing and Engineering.

The graduating plastics technician will have sufficient background to enter any area of the Plastics Industry where the opportunities for advancement and promotion are excellent. Starting salaries average \$500 per month.

EVENING CLASSES

A course of evening classes is available for people who are already in the Plastics or related industries, who wish to broaden their knowledge and skills in plastics processes and applications. The evening classes are held throughout the session on a Wednesday evening, 7 p.m. - 10 p.m.

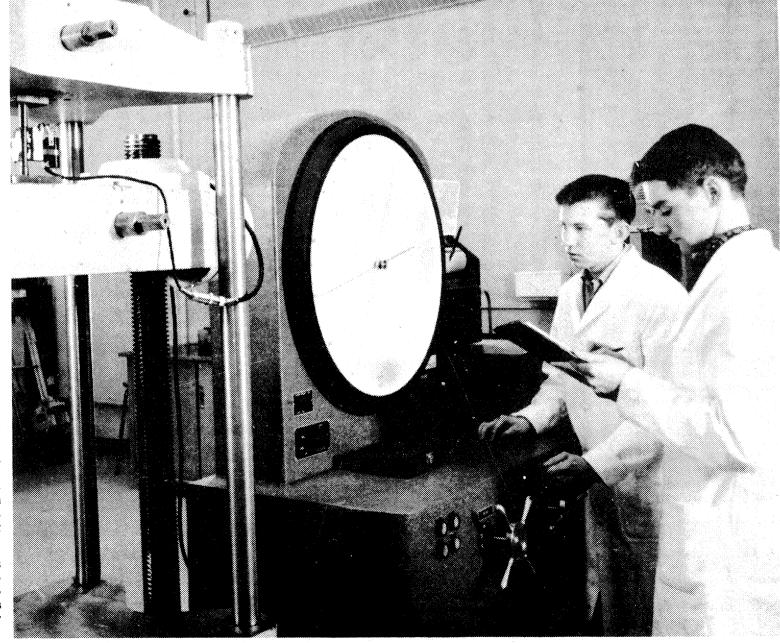
This course entitled, Processing and Applications of Plastics Materials, deals in particular with processing problems, theoretical as-Effective communications lec- pects of plastics polymers which tures teach clear concise use of have a direct bearing on processing and the choice of materials for particular plastics appli-

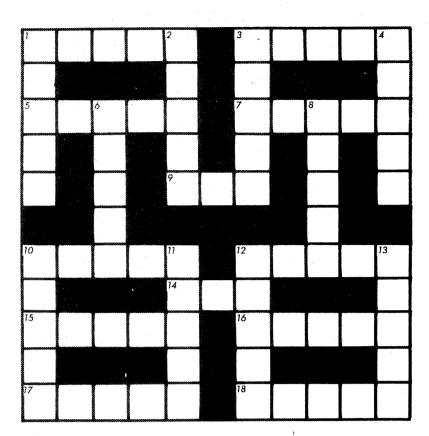
THE PURPOSE **DF MATERIALS TECHNOLOGY**

The purpose of the Materials Technology course is to train technicians in the selection, application and inspection of engineering materials for industry. Graduates from this technology are working in positions in metallurgical control and research, testing of materials such as steel, concrete, soils and asphalt, non destructive testing of welds and forgings and experimental stress analysis.

In order to provide the necessary theoretical knowledge of the courses studied are varied. The main areas of study are metallurgy, destructive and non destructive testings of construction materials, math, physics, chemistry and English. Laboratory exercises are undertaken to relate the theory and practice in the extenstive laboratory facilities at the Northern Alberta Institute of Technology. Approximately half of the time spent is in the laboratories. With this arrangement the materials technologist is capable of doing the work and applying the theory.

Job opportunities for graduates are excellent with starting salaries competitive with those offered other technologies. Positions are available in either industry or governmental organizations.





Presented by Students of

INDUSTRIAL PRODUCTION TECHNOLOGY

For Your Entertainment

ACROSS

- 1 A combination of metals,
- 3 Make, shape, form,
- 5 Degree of quality,
- 7 Overturned, rivetted,
- 9 Impression of center punch,
- 10 Circular inclined plane,
- 12 Costly to a manufacturer,
- 14 Alberta Government Telephone,
- 15 Expel
- 16 Rust will.
- 17 Electricity is one form,
- 18 Weights Supported by Beams.

DOWN

- 1 Thirty degree -
- 2 Stretch as in steel,
- 3 Defect,
- 4 Cutting oil general,
- 6 Cutting tool spindle,
- 8 A metal cutting operation,
- 10 Flat Strip of metal for pipe making,
- 11 Hydrogen two parts, oxygen one part.
- 12 Common engineering material,
- 13 Machine used to, squeeze form, bend.

Correct Solution on Display in Room N119

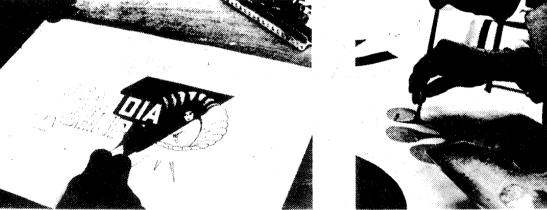
COMMERCIAL SIGNWRITING

of signs. A welcome to all the ctice and experience. visitors to the Northern Alberta

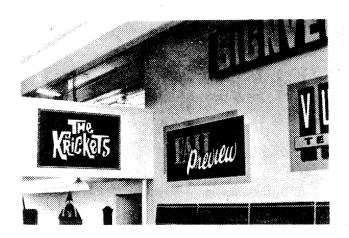
mastered by ambitiousness, pro- the field of commercial sighwrit- windows, and commercial vehicles.

Although it is considered by Institute of Technology from a many as a stepping stone to other

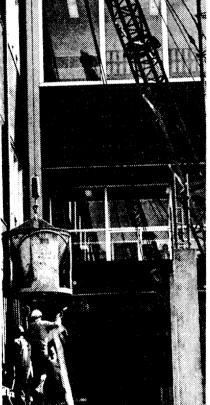
Welcome to the colorful world fessional know-how, constant pra- ing can find this trade a very rewarding and profitable one, as few businesses can function propcolorful though little known art increased a great deal in the past erly without the aid of craftsmen few years, so have career op- skilled in the art of lettering on portunities in the field of adver- all types of advertising materials It is a field that can only be tising. The expert craftsman in such as: billboards, office doors,

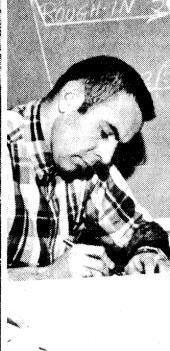












BUILDING CONSTRUCTION

cent years has enjoyed an honored sitions as estimators, assistants position as number one industry in to job sponsors and superintend-North America. Because of the government agencies and material tremendous growth of the industry testing companies, and in related a heavy demand for trained per- employment. The challenges offerto a request from the Edmonton unlimited. Construction Association, Construction Technology.

The young mentaking this course learn the advantages and limitations of materials, the role of the trades, and varied construction techniques. Some of the subjects offered are drafting, statics, soil mechanics, surveys, estimating, use of heavy equipment, form design, carpentry, masonry, tile and marble setting, plumbing, gas and steam fitting, air conditioning and controls and maintenance of small engines.

Graduate Building Construction program with you.

The Construction Industry in re- Technologists should obtain po-Alberta, as it has generally in ents, sales and servicemen for sonnel has arisen. To supply the ed by the Construction industry and necessary training, and pursuant its myriad affiliated companies are

It is generally found that pro-NAIT has initiated a course in motions and pay are based on merit rather than seniority. Therefore, those seeking careers in the Industry should be self starters, ambitious and confident.

The entrance requirement is a grade twelve diploma with a "B" standing in mathematics, or a Journeyman's Certificate in a building trade and successful completion of a special entrance examination

If you are considering a career in this field, the staff members of the Construction Department would be pleased to discuss the

ELECTRICAL TECHNOLOGY

Of all the things taken for grant- subjects concentrate on industrial ed in our age, probably one of the electronic control, static switching most frequent is the availability of electrical energy. We are forcefully made aware of advances in areas such as medicine, science, space technology, food production and industrialization of our society but seldom correlate them all with one common factor; electrical energy.

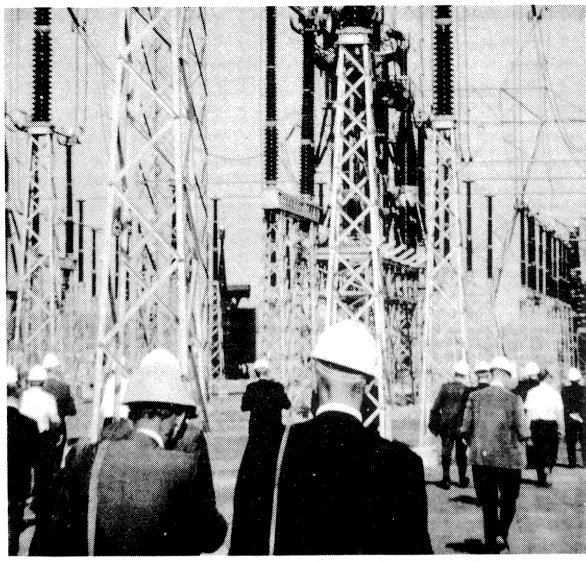
The electrical technician receives a comprehensive training that will complement the specialization of his future employment in one of the many areas of opportunity to which electrical energy is a common factor.

Subjects in the program begin with a thorough coverage of basic electro-magnetism and electronic theory supported by related laboratory experiments as well as mathematics, physics and technical English. Successive quarters cover theory and laboratory experiments on single and three phase systems, d.c. and a.c. machines, transform- dian Westinghouse, Atomic Energy ers, switch gear, controllers, electronic power supplies, amplifiers, solid state and integrated circuits as applied to control functions and a continuation of applicable math, physics and English. The final year corporations.

supervisory control, telemetering, protective relaying, commercial and industrial design problems and theory and application of computer

The Electrical Technology program may be completed in either two or three years, depending on the student's academic background. A student with grade XI would require 3 years to complete the: course while one with grade XII may complete an accelerated course in 2 years. Details of high school subject requirements for admission into the course are available from the Institute.

1968 graduates received an average starting salary of \$485.00 per month. Employers of Electrical Technology graduates include: The City of Edmonton, Calgary Power, Canadian Utilities, B.C. Hydro. Canadian General Electric, Cana-Commission, A.G.T., Bell Telephones, Chemcell and numerous other industrial firms, pipe line companies, consulting firms, maintenance firms and mineral



HEAVY DUTY EQUIPMENT TECHNOLOGY

During each fiscal year, millions of dollars are spent in the purchase, maintenance, and repair of a variety of heavy equipment in Canada. This field includes earth moving, logging equipment, diesel electric installations and large highway transport vehicles. Due to this wide range of applications in an ever expanding industry, tremendous opportunties for welltrained technicians are constantly being created.

With this tremendous increase in equipment a great demand for skilled personnel now exists. The need for trained technicians will ever increase also, due to the complexity of the equipment being city, Chemistry, and Thermodyna-

brought about.

The aim of the HEAVY DUTY EQUIPMENT technology course is to provide the training to meet the personnel demands of industry.

The first year of the course consists mainly of theory and shop studies of various engines and power train components. This is backed up by subjects intechnical Math, English, Physics and Basic Electricity. Some welding is offered to enable the student to perform all phases of repair work.

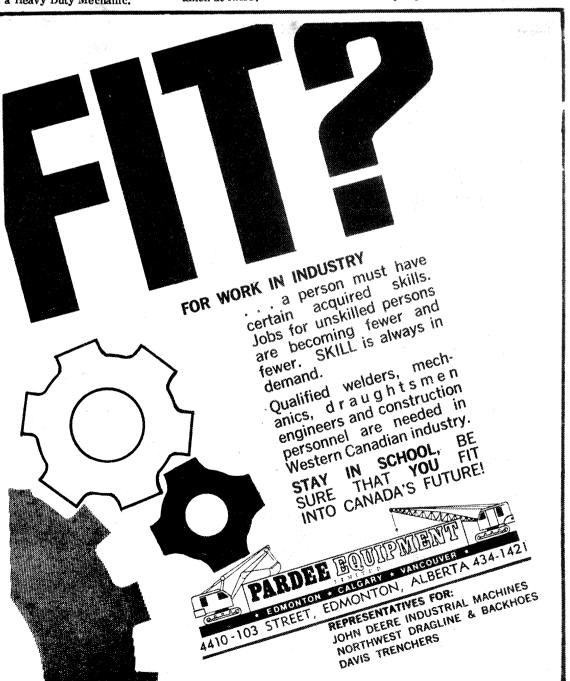
The second year of the course consists of advanced studies in Math, English, Physics, Electri-

as a Heavy Duty Mechanic.

Heavy Duty graduates may ac-Heavy Duty technicians are quite quire a Journeyman's certificate provide industry with capable perreadily accepted by industry, but under the apprenticeship program. the greatest benefits are reaped This can be done within two years when the Technology Diploma is as the apprenticeship board grants combined with Journeyman status twelve months credit for each year taken at NAIT.

The Heavy Duty course is out to sonnel with technicians' status. Combined with adequate practical experience, these credentials should enable the holder to attain major positions of responsibility.





OFFICE MACHINE TECHNICIAN

One-Year Program, September to May

to prepare students with the skills trar. The cost of books and supand knowledge necessary to obtain plies should not exceed a total of employment in the business mach- \$55. ine repair field. The theory and principles involved in the repair ceptionally good in the office machof typewriters of various manu- ine industry. The starting salary facture is covered in detail, with is not high but rapid advancement an introduction to addition mach- is assured for a graduate with abines and calculators.

A student is expected to possess a sound basic knowledge of methods and practices at completion of the program. With this foundation to build upon, employers are able to provide specialized in-service training on their advanced equipment in minimum time.

The repair laboratory is completely equipped but students are required to provide their own textbooks and lab. smocks. The facilities of the Business Education Department provides instruction in shop management and related subjects.

Applicants must be over 17 years of age and have completed grade eleven. Applications for admission



APPRENTICESHIP TRAINING FOR INDUSTRY

building, the maintenance of a motor vehicle, the maintenance of electrical and electronics equipment, and the manufacture of metal products. As we consider the personnel and the type of work involved, we will think of the various trades.

In the construction of a building, we have the carpenter, the bricklayer, the plasterer, the coofer, the lather, the painter, the tilesetter, and the glassworker. In trades closely associated with the construction of the building we have the piping trades; the plumber, steamfitter, gasfitter; we have the sheet metal mechanic, the ironworker and the welder. There are three electrical trades -- the Conbuildings; the Power Electrical, associated with the distribution of electricity; and the Communications Electrical, working with telephones and related equipment. These many trades are involved in the construction of a large building.

Consider the maintenance of the equipment within the building: we have the Radio Technician, involved in the repair of radio and television equipment, we have the Appliance Serviceman and the Refrigeration Mechanic.

ment are the Auto Body Mechthe Motor Machanic the men. Involved in the manufacture as a trade minimum, they may apprentices in the late fall of 1962.

the food preparation area we have the Cook and the Baker.

Apprenticeship is an earning while learning arrangement. Apprenticeship is a training on-thejob and trade school training program. NAIT serves as the school arm in this training program.

There are many opportunities available to young people 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. Apprenticeship training leading to the position of Journeyman in these various trades is under the distruction Electrical, involved in rection of the Provincial Apprenwiring and electrical services in ticeship Board. A contract is drawn up by the Provincial Government. Apprenticeship Board, between the employee and the employer. The length of apprenticeship is usually three or four years, with a part of each year taking formal training at a suitable school. The length of training is usually six to eight weeks, but may be as little as four or as long as twelve weeks. While at school, the apprentice is treated as a regular student with the normal responsibilities and privileges of the school.

There is a minimum education ployees from industry. requirement. For many of the imum requirement. Many employ-

ceptable health and physique for stitute. the type of work that will be rethe guidance of qualified Journey- ed personnel. men in on-the-job training. Wages mination exams and the report from the employer.

The contents of the course of- grams are involved in or influ- NAIT. fered during the school training will have been prepared by the Apprenticeship Board, with the assistance of Advisory Committees for that particular trade and in close liaison with the school. The course will include Trade Theory and Shop Practice, supported by Mathematics, Science, Blueprint Reading, Codes and Safety and General Knowledge all pertaining to that particular trade, as requested by the Advisory Committee composed to employers and em-

The economy of Canada and Al-The tradesmen involved with the trades it is Grade X, with an em- berta is expanding, and the Apautomobile, truck and heavy equip- phasis on Mathematics, other prenticeship school attendance is trades may have Grade IX min- constantly rising. NAIT offered its first apprenticeship training to Heavy Duty Mechanic, the Parts- ers do not accept this minimum group of Communication Electrical

Industry has many facets. Let and erection of equipment we have require a potential apprentice to During the 1968-69 term, train- enced by the apprenticeships prous consider the construction of a the Machinist and the Millwright. have Grade XI sometimes Grade ing was offered at NAIT to some grams, with the result being a sixteen years of age and in ac- fit from school training at this In-

> pective apprentice must have em- an interesting blend of Journeymany phases of the trade under ing and other professionally train-

lished by the school examinations, groups. High calibre Instructors as see facets of the technologic

We must also remember that in XII. We can, therefore, expect to 4,500 apprentices. It is expected very well balanced technology. It have some pretty high quality ap- that during 1969-70, about 5,000 is recognized that the technologist prentices in some of the trades. apprentices, in about twenty-five is between the tradesman and the An apprentice must be at least of the designated trades, will bene- engineer or professional of the field, and if he is to fulfill his far either toward one end of the The instructional staff for the scale or to the other. The inquired of the tradesman. A pros- apprentice training at NAIT is fluence of the tradesman or apprentice at NAIT complements the ployment. Experience is gained in men, Technicians, and Engineer- highly qualified instruction to make a good technologist. The benefits are not one sided -- the appren-The technologies that have close tice is continually in contact with are paid in keeping with the ap- contact with the apprenticeship the upgrading influence of an acprentices' experience and the school training in the same area ademic environment. He is, thus, wages paid to Journeymen. The are in a very fortunate position, able to understand better the theoapprentice's progress is estab- as, indeed, are also the apprentice retical side of his work as well the Apprenticeship Board's ter- are found. They normally have a that may not otherwise be seen. good academic background. The The apprenticeship program is an Instructors in the technology pro- interesting and important part of

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COUNSELLING CORNER

THE WHY OF COUNSELLING

Mr. Scheckley

During the present century, there 7. Assistance is needed for poshas been an increasing recognition of the need to assist young people with educational and vocational choices as well as with personal growth. This need has resulted from the following:

- 1. Traditionally, there is a belief in educational opportunity for all. Counselling serves as a primary means for providing the contact and assistance needed, on a personal level, for the enhancement of the individual facilitation of the learning process. Through counselling, the individual is assisted to develop in ways that will enable him to (a) strengthen the use of his own abilities, (b) make wise choices and (c) face the problems he will encounter in or out of school.
- become distinguishing characteristics of our constantly expanding population.
- . The growing complexity and interdependence of our urban and rural society has necessitated a new analysis of our valuesystems as well as new adjustments for every person. Through this mass education, the individuality of the person must be maintained.
- 4. Less attention is being given to students in school due to increased enrollments.
- 5. There are decreasing employment opportunities for youth.
- Assistance is needed because

sible early identification of pocombat the high rate of drop-

that a student needs assistance to al goal. mature in the following ways:

- 1. Understanding of self and sense of responsibility for self;
- 2. Understanding of the changing world of work and integration of the above two in decisionmaking and choosing that which is flexible and adaptive;
- ing one's own problems;
- Understanding of one's sense of moral values, one's character; and
- Mobility and specialization have 5. Understanding of human nature, psychology of personal and social adjustment.

In summary, the "informal advice" of interested persons had student at first hand during his some value when youth had many personal and direct contacts with structors and other institute perdecision areas. With industry, education and social relations now so varied and complex, a student has little direct and realistic contact with the environment in which he ly aware that we have many unwill endeavour to adjust, Counsell- dergraduates available for summer ing, then, should promote selfunderstanding, self-motivation, self-aspirations and wise decision-making, with the final decision always left with the student. of industrial changes, automa. The student must learn to be a tion and changes in standards free person within a framework of responsibility.

McNally & Co. placed a quotation entitled "Curator of the Mind's Riches" in one of its recent books. It stated "No bank hold riches such as this -- the great legacy of learning in our libraries. Here every man may maintain an account. Here all may borrow, in any amount, from the endless assets of the

Our NAIT library bank is known as the McNally Library, not after this publishing company but from a famous and beloved Alberta educator, Dr. Fred McNally. This 300 periodicals. These assets are in many forms, not only serious four times, to over 4000. technical and factual titles but the -- "People have a strange optaught by lectures. Lectures cannot do as much good as reading the books from which the lectures are taken". For the highly skillwell trained but also know how

The central location is ideal ed to help and direct you.

The publishing company of Rand for it is close to other services such as administrative, general offices, book store and cafeteria. In the general layout there is a functional design for, after opening "account" at the circulation desk, this bank's clientele may, by direct access to the open stacks, make their own personal selection or just leisurely browse. Including the individual study carrels, which are scattered throughout. and counting the lounge chairs, the seating capacity is about 260. Our monthly bank report indicates that our assets are used ten times as particular bank is gradually in- much now as when it was opened creasing its riches to approxi- in 1963, i.e. from 1500 attendance mately 27,000 volumes and about to around 15-20,000; with a cir-

Signs are limited to only one odd popular paper back thriller -- regulation in the main reading i.e. an account may be opened for room - No Smoking. Others are Reference, Research or Relaxa. for guide lines and instruction. We tion. As Samuel Johnson quoted feel that since it is the responsibility of the student to obtain inion that everything should be the knowledge of his technology. it is up to him to act accordingly. This "bank" is his to use, not abuse, if he so chooses.

So, we, the Library Staff invite ed technician must only only be you to open an account in your "McNally Library Bank", and to keep informed about changes though we may not know every detail of our assets, we will be pleas-

THE STUDENT PLACEMENT OFFICE

a Canada Manpower Centre on cam- dents, having had a year of trainpus of the Northern Alberta In- ing in their technology, can be stitute of Technology. Its function most usefully employed. We extend is to provide facilities and sched- an invitation to Business and Inules of employment interviews for dustry to communicate with us for the placement of graduate students assistance in filling your summer in rewarding and satisfactory em- personnel needs. As with the gradployment. We also assist the stutential problem areas and to dent by counselling for career planning and to guide him toward his own assessment of his capa-A suggestion has been made bilities in reaching an occupation-

It is our purpose during open house this year to re-emphasize for industrial and professional organizations the quality of the graduate students, their usefulness in the technical and business field, and the immediate availability on and capable students. To accomp-3. Understanding necessity for lish this purpose, we will welcome assess the potential of the employmaking wise choices and solv- enquiries at any time and will make information available on the labour market generally and on any specific matters, such as average of wages for graduate students and the numbers who will be available for employment on graduation. We of human relations and of the would like the opportunity to discuss your personnel problems with you and can, if you wish, provide the opportunity for you to see the training and to contact senior insonnel so that you may have full information available to you in meeting your labour requirements.

Industry has become increasing-

The Student Placement Office is employment, and that these stuuate student, we can make facilities available and set up a schedule of employment interviews.

The personnel needs of you, the employer, are vital to the operations of this office. Will you allow us to assist you in meeting your requirements for both graduate and undergraduate students.

For the student, we provide guidance and counselling to assist you in reaching career decisions, and the opportunity to meet employers and to be able, at first hand, to

ment that is offered. We provide a library of reading material to assist you in career planning, and we also have a number of brochures from all of the larger industries who visit the campus. The Student Placement Office works in full co-operation with Student Services and Student Counselling Service, and seeks, by every possible means, to augment the work of the instructional staff and the School Executive leading to your placement in suitable employment in the career of your choice. We solicit your early registration with us and hope that we will be able to provide a good range of employment opportunities for you during your stay at the institute.

All enquiries should be directed to Mr. Thomas W. Oldfield or Mr. Norman McLeod at the Student Placement Office, Room E132. graduation of many well trained and to make employer contacts, at the Northern Alberta Institute of Technology. The telephone numbers are 474-7371 and 479-6256.

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Give them a place to start. At your place.

Hire a student this summer



Department of Manpower and Immigration The Hon. Allan J. MacEachen, Minister Consult your local Canada Manpower Centre Phone 429-2621

CUSO PAGE

FOREVER LEARNING

Tik, tik, tik. I grabbed for my I checked under the bed, chair flashlight from under my pillow and suitcases and was relieved and nervously switched it on. (I to find no more. I will admit I didn't go anywhere without my was really quite proud of myself flashlight during my first weeks at that moment. I had done it in India.) Something snapped and all by myself. I could safely go jumped at the reflected light. I to sleep, then saw it was almost quickly switched it off and sat time to get up. So lighting a cigshivering on the bed. Slowly gain- arette, I picked up an areogram ing courage, I cautiously slid the and started writing that I was no sheet from myself and stood up my way home. I didn't want anyon the bed. (My room, nicknamed thing more of this. Bravery only breadbasket, was only large enough goes so far. This was no place for the bed and chair.) Cringing for me. They were just too big! as close to the wall as possible - I dozed off but not before I saw I'm naturally cautious - I switch- a caravan of ants inch their way ed on the room light. Looking slowly from under my door for down, I saw one, two, then three the feast I'd provided them. A giant red, black and yellow cock- lizard also appeared from noroaches scattering furiously for where for his share. By morning, cover. (I found out later from no sign remained of my achieveconsoling friends, this was what ment. they were.) I did the same, from New recruiting volunteer, you the chair to my bed in one swift ask: "What are we doing at premovement. I can't recollect to sent?" I can assure you I've given this day, eighteen months later, up the idea of ridding India of whether I fainted first or covered all its cockroaches. And yes, I myself with the sheet and fainted am still here. I now laught with my then. Coming to after a short friends at the silly, scared Westwhile, I realized my "visitors" ern girl and her first days in for the night were still with me; India. my fainting didn't scare them one I am, at present, teaching at bit. Not intending to boast, I find the General Home Science Col-I can usually get myself out of lege in Chandigarh. The college predicaments I don't find to my is affiliated to the Punjab Unitaste. This was a bad day. Watch- versity here. The college enrolls ing from on the the bed--hell, approximately 225 students, all what would you suggest. I couldn't girls, from middle or higher class get out the door. My first impulse families. The medium of instrucwas to run for help; but where? tion is English. The girls attend-There was no one at the college ing are in a three year degree because of holidays. So instead of course, B.Sc. in General Home running, I did the only other thing Science. I am the only foreigner to do: cry. I think I made a wise on staff. As Head of the Foods decision, for after this day was and Nutrition Dept., my job infar behind me, I realize I would cludes teaching theory aspects of have looked silly to anyone around, the subject and also practical cookriding down the streets on my bike ery classes. Supervising the mainin my pyjamas. Especially at 2:00 tenance of the laboratory, duties in the morning. I imaging I look- of the lab assistant and the ated quite silly, sitting on top the tendents all come into the job bed crying while my enemies also. Along with my actual teachboldly wandered to and fro. (I ing and supervisory job, I hold ous? How do I kill them? Gosh with extra time on their hands. they're huge! What am I going My main concern became to to do? I want to go home ---- removate the laboratory for eas-Well, to make this simply out of ier working efficiency and cleanthe ordinary, but true, story short, liness. Full co-operation was giv-Up on my bed again, I waited un- door.

swear to this day they were all of demonstration classes in cook-1 1/2 inches long not counting ery after college hours, two eventheir antennae.) What and I to do? ings a week, for working girls Do they bite? Are they poison- preparing for marriage and wives

I pondered on how I could get en to me by my project head out of my room, onto a plane so I busied myself with having and back to Canada and home, storage space added, rearranging (where insects were smaller), in of the work space for the students five minutes. Having gone to sleep and rebuilding for easier upkeep. at twelve o'clock and then find- This wasn't done overnight and toing myself sitting crosslegged on day - with only one and a half top the bed, after having fainted, months left at my site - I see I and with uncontrolled tears rolling could have done a lot more. Time down my face, was by no means has gone by so fast. It seems my idea of a good night's sleep, like just yesterday that I arrived So by five-thirty I had had enough. in India and my site and had the Good afternoon, ladies and gentle- ious technologies). Hope you en-

rid of my friends. Bravely, I pick- for me at the college for the number of disc jockeys from var- nouncer. He can take it from our ed up my shoes, then stepped, first three months when I arputting one foot on the chair and rived. After getting acquainted with one on the bed. I wasn't quite Chandigarh and the many pitfalls brave enough to step onto the had been overcome concerning the floor. I soon found out this wasn't new country I was in and the new going to work, so I squatted hand job, I moved into an independent and knees on the bed and waited room. Being independent outside patiently for my prey. Then wam- of my job site has, I find been one, wam-two, wam-three. I did more to my liking. It was quite it. Gee, that was easy. Why didn't hard to adjust to having every-I think of this before. All three thing done for me. I don't feel of them. I stood up and got down hindered in any way as far as my from the bed just when one more job is concerned. It is only a fled swiftly under my suitcases. five minute bike ride from my

til he came out and wham-four. The standard of living is very

high in Chandigarh and like myself, other volunteers found budgeting the only way out. We don't save much but manage our few treasured purchases for home and our holiday travelling. Chandigarh most more modern, almost supermarket type stores where almost from cuts and bruises gotten by anything can be bought. I'm not falling into hedges or colliding toughing it as much as people with an ox cart. Travelling and back home imagine. But never a day goes by when you don't gain the different areas in and around something new in an experience India like Kashmir, Bombay, Goa, or knowledge to let you know even Mysore to mention a few, is fanif you are not roughing it, you're tastic. Learning to say no, though achieving more than you ever hoped hard at first, to travelling sales-

the day comes when you are free try. meeting the different people of men from Kashmir, with their I will end by saying I hope many beautiful carved goods and orien- Chandigarh, India.

more of you from NAIT will take tal rugs, and Jaipru, with his inthe opportunity as I did with CUSO. tricate jewelery, is an experience Experiences gained here will be in itself. I could go on and on with me for many years. Learn- but know I should close. You aring typical Indian foods and proper rive in this country with immature cookery of them, which was a must story book ideas and you leave quite a modern city. There for my job, to learning how to with firsthand experiences and are the typical market places of ride your new bike and stay on is knowledge about the wonderful India and also more modern, al- an experience in itself. Gradually people, their culture and the coun-

> My heartiest congratulations to those of you accepted into CUSO this year and the best of luck.

> The article by Daphne Eglinski, a graduate of Dietary technology at NAIT accompanied a recent letter from her at her posting in





NAIT RADIO

I decided the only way out of my experience with the cockroaches. men. You're listening to the sound joy the music this afternoon. (The room and back home, was to get I lived in the room provided of NAIT Radio and (anyone of a choice of music is up to the an-



sver-expanding library, or bring it from home.) The music policy is a rock, middle-of-the-road format, depending on the time of day.

Our executive includes a director and assistant, program manager, engineer, secretary-treasurer, librarian, continuity director, and promotion manager. W also make use of the NAIT News Service.

We are a student service (at least we like to think so). NAIT Radio gives the announcers a chance to use their vocal skills and musical taste to entertain a large group of people. We're always looking for new members because there's always room for one more. NAIT Radio - your chance to be involved with NAIT.







PHOTO PETER HILL THE VICTORY GROUP with BARRY ALLEN-PAT COLEMAN

NAIT **HEALTH SERVICES**

The Student Health Service provides all students and staff with a limited program of preventive and treatment care and supervision. The funds necessary for the maintenance of this programme are provided through an annual budget from the Department of Education.

The ultimate objectives of the health program are:

- 1. To maintain a state of optium health both physical and emotional among the student body and
- 2. To reinforce healthful attitudes
- 3 To instill important habits of personal and community health.

The Student Health Serivce has a staff of two registered nurses anda nursing aide who acts as receptionist.

NAIT PUBLIC RELATIONS DEPARTMENT

The Public Relations Department was established by the students of NAIT and is responsible to the Students' Association. It was set up for the purpose of promoting greater interest in and knowledge of NAIT and the activities of the students. Among civic and provincial leaders, parents of high school students and people of the province and Canada in general.

The Public Relations Department Room E131. handles the Shinerama Campaign for the Cystic Fibrosis Foundation. Open House activities for the school as a whole, news and sports releases to all branches of the news media, and all special events of NAIT that would be of interest to the general public.

It the short period of time that the Public Relations Department has been in existence, it has proved invaluable to the operation of NAIT, contributing both to the school spirit and general knowledge of NAIT as a whole.

THE MANDALA

The Mandala are one of the best Canadian groups around. After catching two of their shows at Zorba's, I was very impressed with them as performers and musicians. Their stage show is very personified and reveals much of their individual humor. Roy Kenner not only displays his talents as a powerful singer but also as an acrobat and harmonica play-

STUDENT **STORES**

The Nait Student Stores is operated by Business Administration in affiliation with the Nait Student Association. It is a service for the student provided by the students of the Business Administration So-

ciety. The bookstore offers a complete line of shirts, used books and mis-

with all the students participating remaining static. in the functional operation of the on a voluntary basis with expenses marily caught up in touring.

er. Don Troiano, lead guitar and volcalist, is one of the best guitarists I've seen. He maintains complete control of his guitar, knows the exact sound he wants and gets it. The drummer, Whity Glann does a unique drum solo. which is very amusing and expertise. Organist Hugh Sullivan plays a Hammond B-3 organ with a plastic see-through cabinate. Since the group has no bassist he must play both the melody line and the

bass line. The Mandala's first LP sold very well in Canada along with "Oppertunity" and "Love Ites". None of their records have, however, made it is the U.S. They are presently working on an LP which is being recorded in both Toronto and Detroit. Rod Kenner hopes it will be released in about three months along with a single.

After one of their shows they jammed for about 45 minutes. It consisted mainly of jazz riffs with Don Troiano playing a Wes Montgomery influenced style of guitar. cellaneous items at a reduced price I mentioned this to them later of past experiences and of the good and asked if they were going into The store is used as a training a jazz direction. Don Troiano said ground for the students of the this is possibly true but that they Business Administration Society, change every day thereby never even though he has not had a "hit"

The Mandala were recently feastore. It is the policy of the Busi- tured on one episode of "Iron- I respect him because he hasn't ness Administration Society to ap- side" and hope to be doing more changed his style to cash in on point two managers to runthe store movies. Right now they are pri- the changing fads.

The managers and staff of the for bringing The Mandala to town. his fifth time. He was on stage Naitsa Store sincerely hope that I don't think anybody minds paying approximately 40 minutes, and I you will enjoy your visit at NAIT the extra dollar to see this very believe every song he sang was a and hope you will get the oppor- talented group. I also hope that million seller. The average age of tunity to visit us in the store in Zorba's will continue to bring in the audience was about 25 and they top caliber bands like The Mandala. loved it.



VALUE IN TOWN.

WITH HOLGER PETERSEN

In the last month, I've noticed more and more local groups turn- powerful voice with great range. ing to what in mistermed, "under- As vocalist with Wes Dakus's Rebground music". Given another els, he has been recorded on two couple of months, I would pre- LP's and numerous singles, as well dict that all local groups will have as receiving national television a sizeable agenda of this type of exposure. Leadguitarist, Pat Colemusic. All that is, except for The man, is instrumental inthe group's Victory Group.

The Victory Group (formerly The talent composes a lot to the group's Graeme Waifer) have been play- unique sound. ing "underground music" (again that term) for longer than three does more than just provide a beat. years. They will not have to change He sings harmony and is largely their music to keep up to a trend. responsible for making The Victory For three years they have literally Group as tight sounding as they starved because they refused to are. The organist, Bruce Nestle play commercial top 40 music. Almost all of their material has been local bands. He's played with The

voted Canada's Most Promising all played with good and badgroups group sings, which results in some around the city but believe The Victory Group is the first band they've played with, where they have shared a "group concept". They've shared mutual interests, outlooks, and the same musical awareness.

Barry Allen, vocalist, has a very songwriting. He is one of the The point I am making is that group's original members and his

Geoff Eyre, as the drummer, has had lots of experience with written by the group themselves. Pretty Broos, James and the The Victory Group consists of Bondsmen and the Time Machine. four of this city's most talented Al Treen is the best bassist I've musicians and a singer who was heard. He has a double picking style that is used by very few Male Vocalist in 1967. They have bass players. Each member of the very tight five-part harmony.

The Victory Group just recently returned from a recording trip to Clovis, New Mexico. More of The Victory in future editions of The Nugget.



PHOTO PETER HILL ROY ORBISON

Old songs, more than any other was written by Bobby Bond of old days gone by. By this token, Roy Orbison still has a large record in years. Today's music

During mid February, Roy I'd like to commend Zorba's Orbison performed in this city for

After talking to Roy Orbison, you soon realize that he is very sincere and personal type of person. I asked him questions for about 20 minutes, turned the tape recorder off and we chatted for an him if he had any personal favorites out of all the material he has recorded, he stated that "Only thirty million records, and recordthe Lonely" and "Pretty Woman" went on to say that his latest itive record world where originsingle, "Southbound Jerrico Park- ality and image are rated so high,

medium, bring back memories. Nashville. This record is seven When one hears a song like "Only minutes long, and written in a the Lonely" he immediately thinks suite form with five different movements.

He also said that in April he will be doing another European drawing power at the box office, tour, as he does every year. There is also another film in the making for later this year. The film will has left the "Big O" behind, but be contemporary while "The Fastest Guitar Alive", his first, is of 1860's vintage.

> Roy Orbison told be that he hopes he has influenced some of today's sounds. He was one of the first leases. Where country and western music had a strong influence on rock and roll when it first started (as a matter of fact is called 'rock a billy" in the early stages) Roy Orbison feels that the "classics" are influencing many of today's sounds.

Roy Orbison was one of the really additional half hour. When I asked big rock and roll stars when it all started. During his 10 years as a recording artists he has sold over ed almost 125 songs. Although he were, for sentimental reasons. He can't compete in today's competway", (released in early March) Roy Orbison is still a legend.

THE SPORTS SCENE

ATHLETIC PROGRAM STUDENT SERVICES

and automation. In order to do this men and women. we are presenting a program which fact that continuous recreation is premacy. required to maintain physical fitness in a world of high pressure INTRAMURAL PROGRAM and competition. If we can accomplish this then we feel that we will be contributing something of inestimable value in the student's quest for a happy, healthful life.

Physical education is a vital and unique part of the sum total of life experiences which make man as we know him. The Department's philosophy is not elaborate but it does plainly state how universally important it feels physical education is in developing the total personality and in maintaining our democratic way of life.

INTER-SCHOOL ATHLETICS

Students at the Northern Alberta Institute of Technology can avail the meet the need of competition tramurals. at the Junior College level. The

All first year students enrolled lege, The University of Calgary, in the Business and Vocational Olds Agricultural and Vocational Technology courses are required College, Red Deer Junior College, to take two hours of physical ed- Camrose Lutheran College, and ucation per week. This course is NAIT. Activities offered in the the Physical Education Service Conference include Cross-Country; Golf; Volleyball; Curling; Bas-The philosophy of the Institute ketball; Badminton; Bowling; and the Physical Education Dept. Wrestling; Hockey and in the near is that ou students must be pre- future a fall sport such as Rugpared to successfully cope with a ger or Soccer. Most of these acworld of increasing leisure time tivities are participated in by both

In the short time of its exwill provide students with the nec- istance, NAIT has enjoyed a great essary skills, knowledge and ap-deal of athletic success and is preciation to constructively fill presently the holder of the Leththeir abundant future leisure time. bridge Herald Trophy which repre-We hope to instill in them the sents overall ACAC athletic su-

The Intramural Program at the Northern Alberta Institute of Technology is a sports recreational program that presents each student the opportunity to compete in physical activity. Possibly the motto "A sport for everyone and everyone in a sport" would be a more expressive way to indicate the above statement. NAIT attempts to present a variety of activities so that the program will encourage participation from each student in at least one activity.

We at NAIT feel that Intramurals are for the students and therefore should be run by the students. We have an Intramural Board with membership compiled themselves either as spectator or of first and second year students player to a fairly diversified pro- two from each technology. A memgram of athletics. Competition is ber of the Physical Education staff carried out within the Alberta Col- acts as staff advisor to the Board. lege Athletic Conference, a con- This Board is directly responsible ference formed several years ago for the smooth operation of In-

We hope you will take this op-A.C.A.C. encompasses a large portunity while you are visiting number of institutions and geo- us at NAIT to look over and ingraphically represents almost all quire about our intramural proof the Province of Alberta, Mem- gram. We plan to have displays ber schools of the Conference are set up so that you may get a presently - Lethbridge Junior Col- better insight into the program.

A.C.A.C. VOLLEYBALL TOURNAMENT

February 14 & 15

team entered the annual A.C.A.C. they did look impressive. This Volleyball tournament at Olds on team does have a lot of poten-February 14 & 15. It proved to tial, and with more practice, could be a successful weekend for the become a very strong team. women's team. The team tied for The team consists of the folthird place with SAIT which was lowing girls: quite good considering the little Fran Beatty time they practiced together.

Six teams were entered in the Simone Eisinga tournament: Lethbridge Jr. Col- Jane Henderson lege, Mount Royal Jr. College, Red Lynn Lawton Deer Jr. College, Olds Agricul- Shirley Nayowski tural & Vocational College, SAIT Marilyn Niblett and NAIT. The tournament was a Peggy Park Round Robin Affair and the cham- Frances Tallon. pionship was based on total wins. Each match consisted of two 15 point games. One point was awarded for each win. The NAIT women's team along with SAIT acquired 4 points.

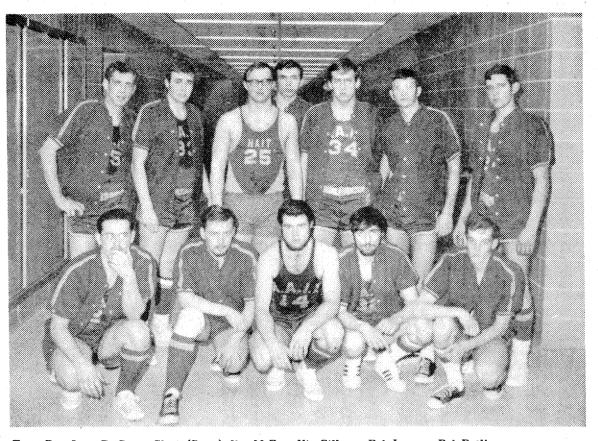
They were able to win against SAIT (one game), Olds (two games), and Red Deer (one game). Mount Royal Jr. College and Lethbridge Jr. College proved to be too strong for the women's team and could not defeat either team.

Although the women's team was The NAIT Women's Volleyball unable to come out on the top,

Sylvia Cherniawiski

GOOD LUCK MEXT YEAR OOKPIKS

(DIKS-BASKETBALL



Front Row L. to R. Gregg Clark (Capt.), Ken McRae, Vic Gillman, Bob Larson, Bob Butlin. Back Row L. to R. John Simonson, Frank Answorth, Gary Young, Eric Rutt, Jim Irvine, Bob Davidson, Harvey Farill.

Basketball is over for another 8 NAIT lost to LJC 70-68 season at NAIT. Judging from the 9 NAIT beat SAIT 81-45 final stats this season, we faired 10 NAIT lost to MRJC 87-76 not too bad:

I. Alberta College Athletic Confer- 13 NAIT beat LJC 82-64 ence (ACAC) MEN's

1 NAIT beat OAVC 91-31 2 NAIT beat RDJC 85-54 3 NAIT lost to MRJC 97-75 4 NAIT beat U of C 51-48 5 NAIT lost to RDJC 76-73 6 NAIT beat CLC 98-50 7 NAIT beat CLC 119-57

BASKETBALL

Now for the Girls final stats this

Alberta College Athletic Confer-

1 NAIT beat Red Deer Jr. Col-

2 NAIT beat Mount Royal Jr. Col-

3 NAIT lost to Red Deer Jr.

4 NAIT lost to Camrose Luther-

6 NAIT beat Lethbridge Jr. Col-

NAIT lost to Mount Royal Kit-

8 NAIT lost to Lethbridge Jr.

GIRLS

ence (ACAC)

lege 12-20

lege 20-17

lege 51-21

tens 24-14

College 25-12

College 18-13

an College 25-7

5 NAIT beat SAIT 11-10

season:

11 NAIT beat U of C 72-66 12 NAIT beat OAVC 101-31

14 NAIT beat SAIT 101-55 II. Statistics in the Edmonton Sen-

ior Men's League. 1 NAIT lost to PWA Chieftains 74-51

2 NAIT beat YMCA Diggers 61-52 3 NAIT beat LDS 69-59

4 NAIT lost to U of A Bearcats 87-75

5 NAIT beat Bonnie Doon Grau 86-80

6 NAIT beat LDS 79-60 7 NAIT lost to PWA Chieftains

8 NAIT lost to Eskimos 75-61 9 NAIT beat U of A Bearcats

70-58 10 NAIT beat Bonnie Doon Grads by default

11 NAIT beat Eskimos 78-55

12 NAIT lost to YMCA Diggers

13 NAIT beat PWA Chieftains 97-89 (Exhibition game)

Final Standings in the Edmonton Senior Men's League.

	Wins	Losses	Points
PWA Chieftains	11	1	22
U of A Bearcats	9	3	18
Eskimos	8	4	16
NAIT	7	5	14
YMCA Diggers	4	8	8
Bonnie Doon Grads	2	10	4
LDS Saints	1	11	2

THE NUGGET STAFF WISH ALL THE BEST TO THE MEMBERS OF THE

MEN'S AND WOMEN'S BASKETBALL TEAMS

AFTER A SUCCESSFUL SEASON

CONGRATULATIONS TO N.A.I.T. STUDENTS FROM ALL FOUR



McBAIN CAMERA **STORES**

DOWNTOWN WESTMOUNT **BONNIE DOON** MEADOWLARK

ACAC

9 NAIT beat SAIT 14-8

Out of 14 men's teams entered in the ACAC playdown, Earl Gilles team came out on top. His team consisted of Doug Fleming third, Brian Wolfe second, and Al Mc-Dougall lead. With their victories they have earned the right to represent NAIT in Red Deer later this month. Gary Morken's team put up a fight in the last game, but could not beat the hot Gilles' team. A mixed team has not been picked yet, however, when one is, they will be going to Red Deer also -Good Luck Group.