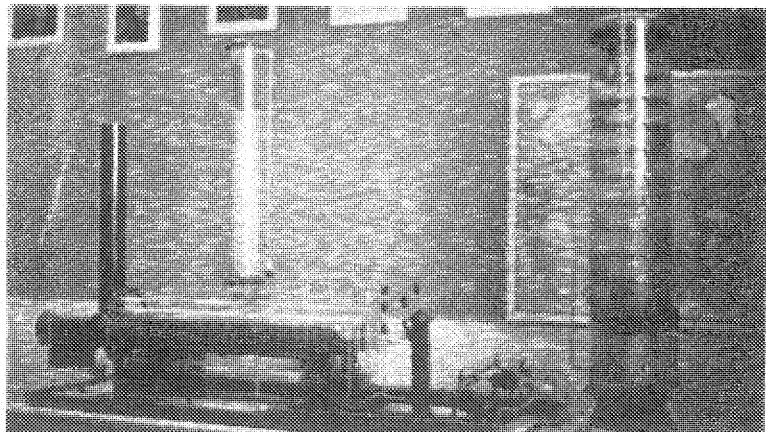


## Gas Technology



The Natural Gas Industry is one of the fastest growing industries in Alberta. Since 1960 the production of Natural Gas has more than doubled and the future promises even greater increases and expansion in all phases of the industry.

The Gas Technology Advisory Committee, a group of representatives from the major gas companies, has recently indicated that the industry can absorb up to 40 Gas Technologists per year. Considering the enrollment limits 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

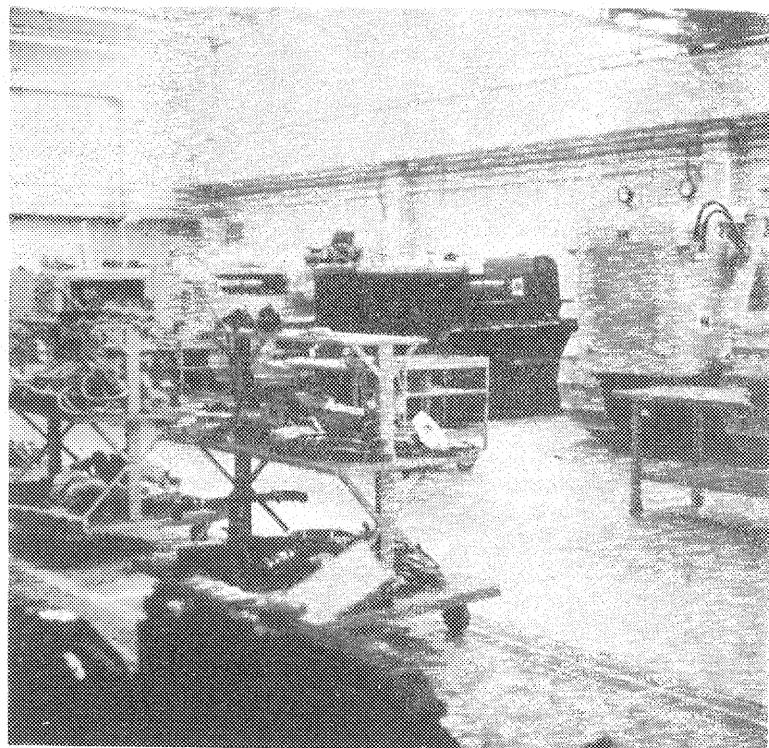
highest obtained by any of NAIT's graduates.

The Gas Technologist is trained to fill the gap between the skilled tradesmen and the professional Engineer. Graduates may begin their careers in either the Engineering Technology field or the Operations field, both of which provide interesting and challenging opportunities.

The Gas Technology course is a two year program which commences in September and is completed the first part of June. Upon acceptance of a student's application and payment of tuition fees, the student spends two years at concentrated studies in the Institute.

A basic review of mathematics, chemistry, physics and English begins the student's studies. The remainder of the first year includes courses in such subjects as geology, reservoir mechanics, drilling operations, surveying, 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, 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 certifies that he is a Registered Technician III in the province of Alberta. In addition, successful Gas Technology graduates have the opportunity to write the Alberta Fourth Class Steam Ticket. This is the first steppingstone to a secure and rewarding career as a Steam Engineer.

## Heavy Duty Equipment



Heavy Duty Equipment plays an outstanding role in the development and refinement of the earth's riches. Modern machines utilized in excavation, lumbering, mining, petroleum, transportation, and

farming have contributed greatly to our industrial capacity and economy. Such equipment demands knowledgeable selection and careful application as well as proficient operation and maintenance. The Heavy Duty Equipment course offered at NAIT provides an opportunity for young men to learn the operating principles, function and capabilities of these machines as well as acquire personal skills in this technical field.

The first year's curriculum comprises mainly of mechanics and "Engine and Equipment" theory. This is backed up by subjects in Mathematics, English, Physics and Basic Electricity. Welding is also offered to enable the student to fulfill all maintenance aspects of the industrial equipment.

Heavy Equipment not only requires service, it must be purchased intelligently, applied economically, and maintained to its peak in performance.

The second year's curriculum contains classes in hydraulics, thermodynamics, electricity, materials testing, and business studies, to broaden the students' intellect and understanding of intricate machinery.

Graduates in the Heavy Duty Equipment Technology course may attain Journeyman Certification by entering employment in the Heavy Duty repair field. By registering under the Provincial Apprenticeship program a student may train as service and field representatives. Following four six month periods, a student, under the apprenticeship contract, may write the Inter-Provincial standards recognition.

The Heavy Duty Equipment Technology course is designed to enable competent aspiring students to enter industry with good theoretical knowledge, and adequate practical experience. It should also enable the candidate to attain positions, such as foreman, supervisors, heavy equipment salesmen, or equipment training personnel, after extensive practical experience in the field.

## Host and Hostess Technology

FOOD SALES AND SERVICES  
We Learn For YOU!

The short course, which is offered by NAIT to up-grade the standard of service in all good establishments is for you, the general public. The men and women who take this course are willing to learn and are interested in people, they are working for you, learning for your pleasure and comforts. People, are their purpose in life and they have chosen to make other lives more

enjoyable for their career. Yes a career, just as in any other profession one can make a successful career in this line of work and as in other professions one needs to acquire the proper training and knowledge to compete. The HOST-HOSTESS course provides the training grounds for people who want to make a success in food sales and services.

The course consists of the learning of foods, wines and most important, services. We all have

a general knowledge of foods but this general knowledge is only a start for our hosts and hostesses, they anxiously learn of the art of food preparation that will please you, their customer. They delve into the exotic art of flaming dishes that have been passed on through the centuries such as "Cherry's Jubilee", "Chateau-briand" and "Flaming Shish Kabob". Flame is a simple but magical ingredient which, makes good food better in a fascinating and dramatic way.

The wines of the world also course of studies for the students. They acquire the knowledge of the different categories of wines;

-wines that are classed as an appetizer (wines which stimulate the appetite)

-The dinner wines which compliment the entre and the sweet dessert wines that add the finishing touch to the already perfect meal. Also with the knowledge of the wines, is taught the art of serving each wine. For an instance, sparkling and white wines are served well chilled to enhance the taste of the wine. Champagne is served with the flare of extravagance on special occasions to create the mood of festivity. The opening and the pouring of wines can be an everyday occurrence or can be made into an elaborate ritual.

The knowledge of foods and wines is not enough to satisfy the customer, so the trainee learns the proper service to meet the demands of the public. The accepted procedure in serving food, both tray and arm service is stressful, but this is not all, the elegant method of Russian and French service is also taught. The procedure of banquets and me-

thod of serving is of rapidly increasing importance to the food industry.

The trainees receive lectures and practice on banquets.

The students work in the staff dining room where they acquire the experience of actually putting their theories to practice. The staff and visitors benefit greatly in the way of service, for they receive the attention of apt individuals who are learning to please you, the customer.

Properly trained waiters and waitresses, competent leaders and supervisors are in constant demand in the rapidly increasing food establishments across the country. With the demands as great as it is the standard of personal requirements are becoming more definite. The Host-Hostess Course have set up the course design to prepare the men and women to meet the requirements. The course develops and directs the trainee's activities along the lines found in present day food service area of employment. It also develops within the trainee an appreciation of cleanliness, neatness and co-operation with fellow workers. The development of good work habits is essential to help him or her to secure employment and progress in the food service area. To develop in the trainee an attitude of accepting individual responsibility and to develop insofar as possible, judgement and initiative within the dining room service employee. The course has been in existence for eight years and it has helped many to receive successful employment in the food service area not only as waiters and waitresses but also as managers and supervisors.



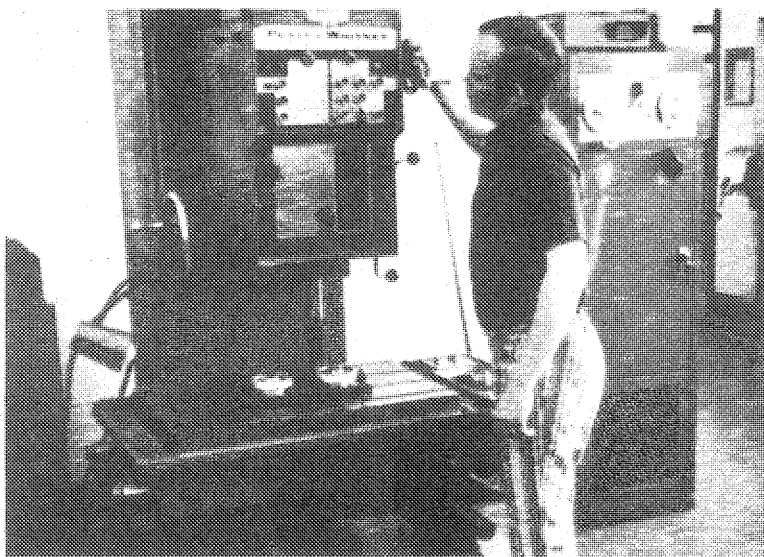


# Industrial Production

One of the more challenging courses offered at NAIT is Industrial Production Technology. This is a two year post high school course which trains those with technical and mechanical interests for positions in industry.

NAIT is one of three technical institutes in Canada which offers this type of program. It has been patterned after a British engineering course called Production Engineering.

The two main areas into which the course may be divided are mechanical and production. In the first year the emphasis is on the mechanical aspect. With subjects such as mathematics, mechanics, drafting and effective com-



# Marketing



Marketing Administration at NAIT is planning their Open House promotion around one product whose image is famous the world over - COKE. They plan to start at Coke's inception and progress to modern day. They will incorporate all phases of marketing - research, production, distribution, advertising, merchandising, and selling. Coke's fight against pollution will have a special spot in the show.

Coke Co. and Mr. C. Jepson, Coke's General Manager, have greatly aided the show by lending Marketing irreplaceable antique bottles, materials, and machines from the past.

Co-ordinator is Rod McLeod, a second year advertising and sales student. Former NAIT student, Bill Begg, who now is a salesman for Coke is acting as liaison officer between Marketing and Coke. Their efforts should reward Marketing with the best show it has ever had.

To help raise funds for the show, Marketing is raffling off an Easter ski trip to Banff. This includes car rental, hotel, meals, skis, poles, boots, and free tows at Mount Norquay. Tickets are obtainable from any one in the Marketing option and are not restricted to on campus.

Marketing will have eight lovely hostesses in strategic areas around tech to help visitors. Among them will be the 1970-71 Marketing Queen, Karen Lang. They will be handing out free coupons for Coke redeemable at the Marketing display.

The display will cover three rooms on the fourth floor of the

Tower Building. Come up and see the show, March 19th and 20th. It's well worth the elevator trip.

It's great to have the product, but how do you tell the people? After you do, how do you get the product to the people?

MARKETING: It's the Real Thing!

But it's really four things in one:

MARKETING, MERCHANDISING, ADVERTISING AND SELLING - and this year we've come together.

We call the learning - MARKETING.

And when we do our thing, the product begins to happen!

Marketing Administration is proud to announce their association with the greatest marketing image in the world - COKE.

Notice: We didn't say -

"The Coca-Cola Beverage Company of Edmonton." We didn't have to.

Merv Marketing, he's our image. You'll be seeing a lot of him in the coming weeks.

Open house is NAIT's way of marketing herself to Edmonton, and marketing is going to be a big part of Open House, March 1971.

The billboard says:

"You'll Remember Summer All Winter Long" ... We'll listen baby! With marketing comin' on strong. This Open House prepare yourself... For a winter you'll remember all summer long.

When you see Merv around campus, remember, come and see us, Fourth Floor Tower.

munications, a firm basis is established on which much of the rest of the course depends. These subjects provide the student with skills he will use constantly.

The second year of the course contains a substantial amount of mechanical emphasis but also introduces the production aspect. Courses included in this area are work study, production management, and plant layout.

Industry, being as diversified as it is, makes it difficult for anyone to specialize in any particular area. With this in mind, Industrial Production includes a wide range of subjects including welding, manufacturing processes, materials, metallurgy, tool design, hydraulics, plastics, and thermodynamics. This range of subjects provides the student with an adequate fundamental knowledge in many different fields. It should be kept in mind that even though some of these subjects may have little or no relevance to his future job, the student's ability to adapt, investigate, and reason will be fully developed.

The prospective student should have ability in mathematics and the sciences and should be interested in things mechanical. A willingness to work consistently throughout the year is a definite asset.

The course is continually being revised to meet the demands of industry. Graduates are finding jobs which, with a few years of experience, allow them to enjoy responsible positions.

FIRST ANNUAL  
NAIT

MARBLES  
OPEN

MARCH 24

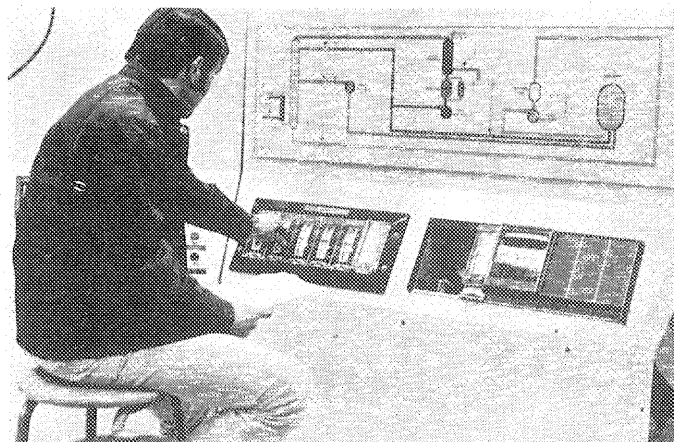
ENTRY FORMS

AVAILABLE

IN THE

NUGGET OFFICE

# Instrumentation



In the world of today, and the future, instrumentation is the key to automation. The trend towards electronic and pneumatic control in the modern industry of today and tomorrow demands highly trained individuals. This is the function of the Instrumentation Program, to train individuals for a challenging and rewarding career in an increasingly important field.

A graduate can expect to work in such fields as sales, design, installation, services, maintenance and others. The technician is the man who takes the process from the drawing board to the process start-up. The areas of employment include: petroleum chemical, pulp and paper, metallurgical, fertilizer, food processing, and power generation. These industries are increasingly dependent on control instruments to keep the processes operating smoothly, efficiently and with a minimum of operator supervision. It is the job of the instrument technician to set up, maintain, calibrate, service and supervise these processes.

Many smaller firms that are unable to employ an instrument engineer are finding that instrument technicians can work closely with instrument suppliers and consulting engineers in solving control problems. Larger industries find the instrument technicians provide skilled assistance to their engineering staff.

Training involves a general technical education in mathematics, physics, chemistry, drafting, and English; a thorough theoretical and practical training in basic and industrial electronics and a study of industrial measurement, control theory and control equipment. An acquisition of skills in maintaining and servicing industrial instruments and controls is obtained in a well equipped laboratory. The student is given exercises in maintenance, trouble-shooting, and repair of electronic and pneumatic instruments.

For further information we invite you to meet and speak with instructors and students in the Instrumentation program.

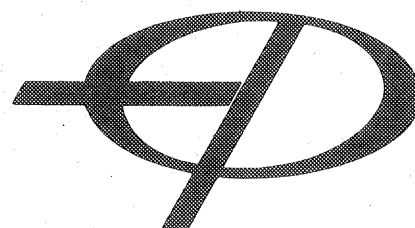
CONGRATULATIONS ON YOUR  
"OPEN HOUSE"

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in the field

of electricity

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# Medical Laboratory



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 led directly to the medical technologist who examines physiological fluids such as urine, sputum or pus in order to identify the bacterium which is causing the infection; the elaboration of a method of determining sugar in blood and urine by Benedict in 1913, and the discovery of insulin by Banting in 1922 to the biochemical technologist who determines, (among approximately one hundred other determinations) blood glucose levels - most essential in both the diagnosis and control of diabetes. The work of Paul Ehrlich, that man of many talents, who not only discovered the first chemical cure for syphilis, but also investigated the reaction of dyes with tissues is still being utilized by the Haematology technologist who examines blood smears for, among other things, abnormal white blood cells characteristic of leukemia, and also by the Histology technologist, who cuts sections of tissues which are 120,000 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 Weiner's discovery of the RH factor led to the Blood Bank Technologist who cross matches the blood necessary for such sophisticated and revolutionary surgery as heart and kidney transplants.

The term "information explosion" is a common one: its application to medical science means that no longer is one person - the doctor - able to perform, personally, the multitude of tests necessary for diagnosis, and treatment (or control) of disease. This is now the function of the medical laboratory technologist, who obtains, at the doctor's request, the pertinent information. This cannot be done either accurately or efficiently without a thorough grounding in the theory underlying the tests, and it is for

this purpose that medical technology students come to NAIT. During the following year, the students apply this knowledge in the practical portion of their training at an approved hospital.

In their ten months at NAIT, they are expected to acquire a basic knowledge in six laboratory disciplines: Bacteriology (or Microbiology, as it is more precisely termed), Biochemistry, Haematology, Histopathological Technique, Blood Banking (or Immunohaematology, as it is now called) and Urinalysis. It is a year in which the student must quickly adjust from a high school atmosphere (where it is interesting but not essential to learn all that is taught) to a professional atmosphere (where it is both essential and interesting to learn everything). It is a year of adjustment to the knowledge that within a very short time someone's life will depend on precise and accurate work, a year in which the prospective technologist must adjust to instructors who (almost unreasonably from the student point of view) not only expect but loudly and firmly demand perfection; a year in which a student must adjust to the knowledge that technologists in most other fields will make more money, work better hours and develop fewer ulcers; a year during which study is expected on weekends! Is there no compensation? Those who leave in the first few months of the course think there is none; those who stay (the great majority) begin to realize that their painfully acquired knowledge is essential and valuable; that they will, if only in a small way, contribute directly to a patient's welfare; that they are days when things go all right, instead of all wrong, in a lab; that they are laying the groundwork for some of the most enduring friendships they will ever have; that their starting salary, after they qualify as Registered Technologists with the Canadian Society of Laboratory Technologists, will be approximately \$400 a month (not exactly starvation wages); and that their instructors can (even if they rarely do) show a glimmer of humanity.

# Medical Record Librarian

Are you interested in knowing what a Medical Record Librarian is and what these people do? Well, come up to Fourth Floor and find out! The girls from first year Medical Records are a warm and friendly group and will be on hand to answer any questions you may have about the course. And while you are there, sit down and enjoy the Medical slides being shown by the girls. Girls will also be coding your own personal diseases. See Dr. P.Q. Lyar, a recent addition to our Medical Record Society, you will find him interesting and humorous. That's what you will see when you come to the Medical Records Display.

For those of you who are interested, the first year students in the Technology are responsible for this smooth running display you see today. The second year students are presently involved in their three month hospital session.

Besides information you may have received browsing through our display, I am sure you must still have a few more questions.

Just what is an M.R.L.? First of all, we are "card checkers". In a hospital we are responsible for checking all information recorded on the patient. We do not judge or evaluate this information but make sure that it is present. We are "Custodians" and "Retrieval Experts". That is, we keep the record filed in an accessible manner. Doctors require information for research projects and we have the information for research projects and we have the information coded and indexed right at our fingertips. We are also "Clinical Documentalists". Our attendance at hospital staff meetings is most challenging as we provide statistics for clinical evaluation.

Is there a great demand for M.R.L.'s? Where can you get a job? Medical records is a reasonably new field, as well as working in a hospital or medical clinic, oil companies hire M.R.L.'s to keep medical records on their employees.

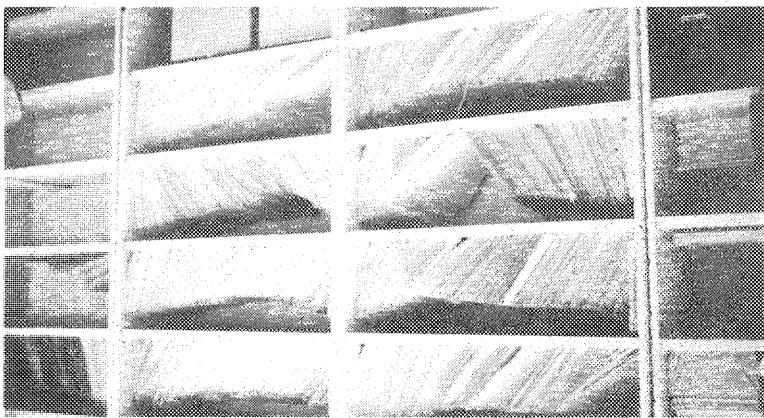
What sort of extracurricular activities are there at NAIT? We have set up our own Medical Record Society. The aim is to set up a sense of belonging and group participation with other Technology Clubs at NAIT. This year we participated in the great Bath-tub Race, had candy sales, raffles, car washes, and helped in the Blood Donor Clinic. On some occasions an interesting guest speaker attends our meetings. This year the fifteen girls in the first year class are representing the Medical Record Society at the Provincial Convention of Medical Record Librarians.

There are all sorts of other extra-curricular activities to become involved in, Intramural sports, such as Volleyball, curling, badminton, basketball have attracted many girls with a competitive spirit, and those who just want to enjoy themselves and have fun. There are lots of things to do in NAITSA too. For those adept at writing or arranging material for printing there is the NAIT

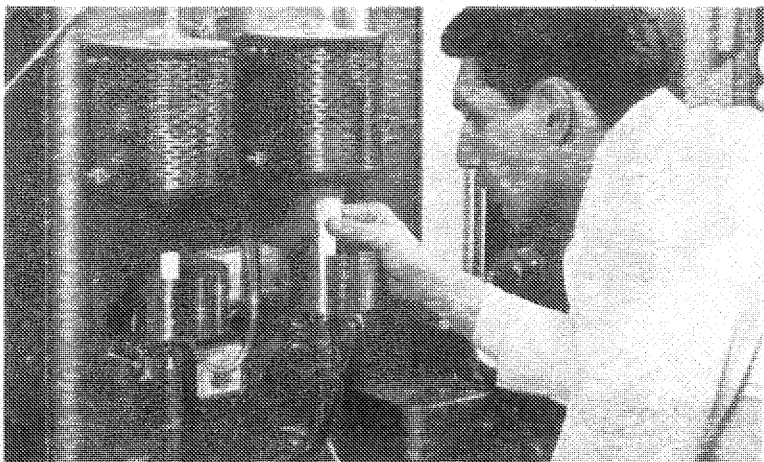
newspaper and yearbook.

We hope that you have enjoyed the Open House displays this year.

and if you have any particular questions about our Technology, please do not hesitate to ask.



# Materials



This course is designed to produce materials technologists of high calibre to work in research, inspection, selection, and application of engineering materials, such as: metals, plastics, concrete, asphalt, and soils. The first four quarters are designed to give the student a broad education in the engineering sciences - the subjects vary from welding to modern physics. Intensified courses in testing, inspection, and properties of these engineering materials are taken in the last two quarters.

The main areas of study are metallurgy, destructive and non-destructive testings of construc-

tion materials, math, chemistry, industrial production and effective communications. Approximately half of the time spent is in the laboratories undertaking exercises to relate the theory and practice in the extensive laboratory facilities at Northern Alberta Institute of Technology.

Graduates of Materials Technology have found employment at research councils, governmental and constructional organizations, engineering assistants, quality control inspectors in manufacturing, corrosion design and inspection and materials selection for specific engineering applications. A very full and rewarding technology indeed.

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**Prices very reasonable  
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# Medical X-ray

The X-Ray Technologist is a member of the medical team in the Hospital or Clinic. X-Ray is playing an ever increasing role in medical diagnosis and treatment of disease.

Over the past twelve years there has been a three to four fold increase in the number of X-Ray 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 increasing need for fully qualified technicians in this area of patient care.

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 involvement with the seriously ill or injured patient and as many of the x-ray procedures involve teamwork with other medical personnel, the student spends part of his training period at the hospital and the remaining time in the X-Ray Section at NAIT.

The student is accepted by the



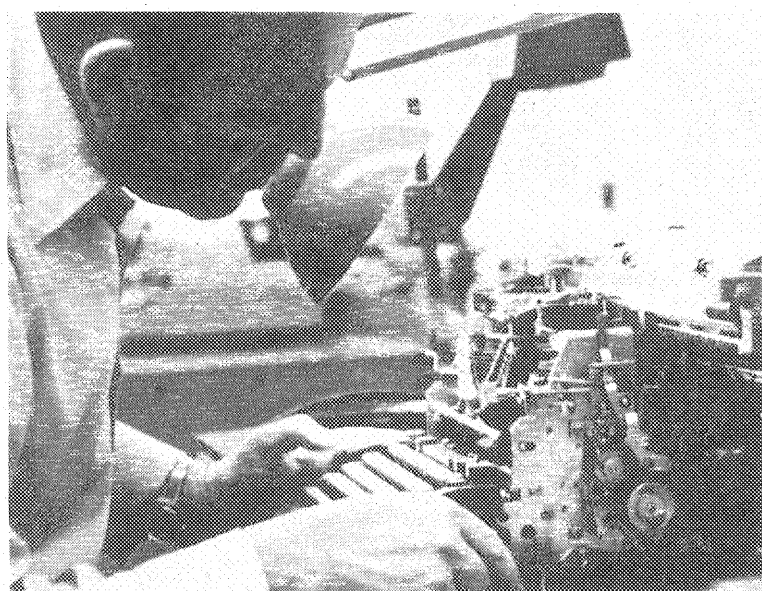
accredited training school in the hospital. Application may be made to any of the four city hospitals for training in Diagnostic Radiography. Students come to NAIT from Red Deer and Calgary. The Edmonton Cancer Clinic is the only training school among the hospitals or clinics in the province that is accredited for the training of both Radiographic and Therapeutic Technologists. The students undertaking the Thera-

peutic program attend the institute for the subject applicable to both courses. Therapeutic Technology involves the use of X-Ray, and various radioactive sources for the treatment of patients with cancer and other diseases.

If the student has fulfilled the requirements for examination at the end of the two year training program, he may attempt the National Examination set by the Can-

adian Society of Radiological Technicians. Certification following successful completion of these examination entitles the technicians to use the designation "R. T." C.S.R.T. after his name which indicates proficiency in his chosen profession. This certification is recognized across Canada, and through reciprocity in the United States, Great Britain and a number of other countries.

# Office Machines



The course is designed to prepare a person to work in the field of business machines which would include machine repairs, sales and administration and also advance in the organization he works for. The school itself has physical education programs, intramural competitions and school competitions.

The types of business machines covered in this course are seven different makes of the manual typewriter, and different makes of electrical typewriters, adding machines and rapid calculators. Any time left after these machines have been covered is spent working on the make of machine of the company you plan to work for.

In machine shop there is a project to be made. This project will teach the student the proper use of hand tools, drill presses and threading tools. Remember there will be times when parts are not available and you may have to make something to keep the machine working until replacement parts arrive.

Electric machines are becoming more and more popular each year, so we must learn something about electricity. This is covered in two parts. One section is the basic electricity theory and the other section is on electric motors. As the trend of

machines is toward electronic controls there will be more and more basic electronics added to the course.

Of course it is hard to repair a machine if you don't know what it is supposed to do. This is overcome by teaching the students how to type and use the machine properly. This is a very short course, but covers the operations a secretary requires the machine to do.

There are a few people who do not wish for advancement as they progress with their work. In order to prepare the students for this advancement, the student also takes a short course in business math, business English and bookkeeping.

Physical education is taken twice a week and offers quite a variety from dancing lessons to team sports. The intramural competitions consist of a variety of sports and are mainly conducted as extracurricular activities. Everyone interested is also given a chance to make the school teams to play against other schools.

This is a year well spent in preparation for the student to get a good start in the business machine world and enjoy his last school year before settling down to the busy world of working every day.

# Medical Typist Tech.

To keep pace with the increasing demand for qualified medical typists the course for medical typists was instituted at the Northern Alberta Institute of Technology in September, 1970. The request for a program of this nature came from hospitals, and other medical groups in Edmonton and the surrounding area.

The curriculum consists of a one-year program of studies involving practical training. The course is divided into three quarters. Applicants must have an interest in the medical field and a genuine desire to do their part to keep the standards of patient care on a high level, in a paramedical department. Academically, they must have a high school diploma. Typing is an asset; however, it is not an entrance requirement.

Our Technology is in no way connected with the Medical Record Librarians'. You will work hand-in-hand with them, not under them!

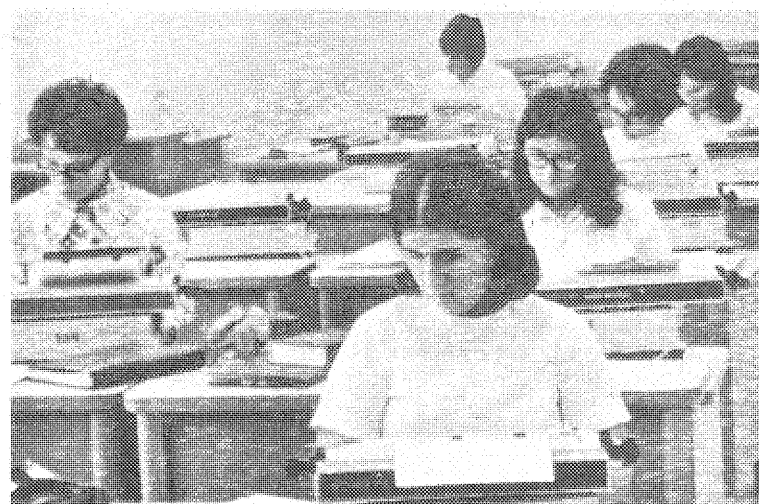
A question that is asked by all who are debating on entering this Technology is, "Is there a demand for Medical Typists?" As was pointed out in the opening paragraph of this outline, this is a brand new field, and as yet there are many hospitals that do not realize our potential. We must sell ourselves to them, and eventually prove that we are indispensable. And with our training this is not very difficult.

Instruction in this course will take place from September to May with a lot of assignments demanding a lot of attention in a short span of time. The most important aspect of our course is ACCURACY. Once you are able to spell a word like "Otorhinolaryngology" correctly, three-quarters of the battle is won. The graduates from the Medical Typist program will be those who have sacrificed more than one weekend in completing their tasks. The work load is quite

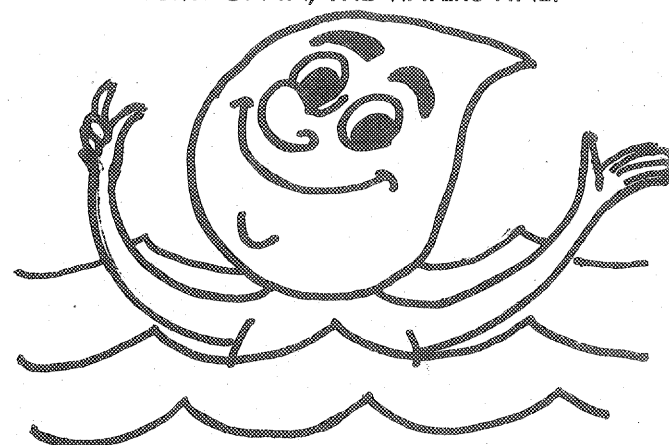
heavy at times, but perseverance and the desire for achievement enables them to make the grade.

We realize that different applicants have such a variety of questions that it is impossible to answer all of them in a brief write up. If you are interested in learning more about this pro-

gram, we are located in a room on the fourth floor of the Tower Building. We will be glad to show you the various displays that have been set up for Open House, and if you have any particular questions about our Technology, please do not hesitate in asking for the information.



WILLING WATER SAYS  
"COME ON IN, THE WATERS FINE!"



Opportunities for Graduates in

Civil Technology

Instrumentation Technology

Drafting Technology

Chemical Lab Technology

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PIPELINES OF SERVICE**





## EDUCATION

-by Connie Swanson

A great challenge in moving from the known to the unknown

Using the communication from the past to communication with

The present, and

The idea of the future.

Seeing life with different eyes.

Your starving neighbor to the east.

The injustice in the south.

Man's slow and agonizing death - POLLUTION

Seeing leads to action

Helping your fellow man

Listening to his cries of help with both ears

Reaching out, touching your fellow man

Putting your hand upon his shoulder

Telling him he has a friend.

Learning starts from birth and continues till you bid the world  
farewell.

Finding out you have a brain

Using it to the full

Appreciating all the beauty in the world,

The cry of a newborn child

The discovery of a miracle drug

Education is the "magic wand"

To help you play your part in life.



# Letter to the editor

Letters to the Editor  
Copy from others and  
Thou shalt not again  
Receive 43% on your  
Final Assignment  
Instructor  
(verses last and second last)

Where did this passage come from?

From one of our instructors that flunked as GOD but is raising HELL with the future work forces chances at NAIT.

I recently handed in my final submission and just received 43% for it. Do you think I deserve it? Please read my reasons for thinking possible not.

1. Yes, my writing was poor but I have always had a poor hand. Once in Gr. 5 I was strapped because I had poor writing. Well, improve you say! I have some deformed fingers and my hand supability barely exists but I have tried.

2. I could sit in a 3 hour class and receive help once. Therefore at the time the assignment was just about due I dropped all other work, stayed at home, got up at

3:00 A.M. and worked at this course till 8 P.M. at which time I slept. This I did for two days. This action costs me one subject for sure and possibly another as I missed important lectures.

3. When I told this Instructor much higher marks were given to those who copied on another's work and that maybe I should copy, to get high marks also. His comment was, "Maybe, you should." You can take that any way you want it but I know how I'm taking it. I do not think this is the type of answer any instructor should give a student. If students are going to receive their diploma by cheating and any other dishonest means they are meaningless as the paper in the washrooms.

In conclusion, I just want to say you students who help your friends by giving them your work before you lend again, think about the guy next to you who may not be as smart as you, but might be as smart as your friends IF THEY DID THEIR OWN WORK. And he might make it.

Dick Car

# Welcome from the editors!

We, as editors of the Nugget, would like to extend a warm invitation to visitors and prospective students. We wish you an enjoyable visit and hope that your knowledge of NAIT will increase as much as our knowledge of our particular field has.

Each year more and more students realize the value of post-secondary education and training. Part of this training is arrived at by participating in extra-curricular activities. Extra-curricular activities such as sports, student government, or the newspaper not only increase a student's formal education, but also his knowledge of people and how to manage his time more effectively.

It is our desire that you will become more familiar with some of the many extra-curricular programs which supplant the formal learning processes here at NAIT.

The prospective student should seriously think about getting in-

involved with some activity. You may think that this will require too much of your time, but you must equate this time to the value of the added education that you will receive. There cannot be any mark assigned to this form of education that you will receive. It's value will show in your maturity and your ability to handle yourself.

Education is not only classroom instruction, but it is also the learning about life; and what better place is there to learn about life than by inter-acting with other students.

We, as involved students, have learned much more than what was taught in the classroom and hope that next years students will gain from our experiences. If you are interested in the newspaper, please come to room E 128 and talk to us. We would be happy to see you.

Lee Kearns  
Ken Caspell

## NUGGET STAFF

Editor-in-chief.....Ken Caspell  
Co-editor.....Lee Kearns  
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Sports.....Richard Johnstone  
Advertising.....Wayne Fedor  
Photography.....John Rao  
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Georg Wowk  
Gregg Elock  
Lois Thibodeau  
Dave Chouinard  
Ron Dombrowsky

# Baha'l

Man has been given God's greatest gift-an intellect. The animal part of his make-up is subject to the laws of nature but his spiritual existence can transcend the material plane, can triumph over natural conditions. The great runs of the universe, our oceans, mountains, rivers and all of the animal and vegetable kingdoms, indeed all of creation, are all subject to the laws of nature. From one end of our spectrum of knowledge to the other we have found these laws to be inexorable. Man alone can transcend them, gain control over them and adapt them for his own needs.

Man is unique. He has been freed.

Part and parcel of this gift is man's free will. He can choose to follow God's spiritual laws or he can turn away from them. When man turns away from these laws and his animal nature is dominant, his intellect is used to satisfy the material needs of his soul. The spiritual nature becomes atrophied through disuse and within time he is without compassion. Evil results, rivers, lakes and oceans become polluted, divorce rates climb and suicide rates and abortion rates, man is out of tune with himself and with God. At this point he has regressed to a point below his animal nature, he takes more than he gives.

For an harmonious existence

with his fellow man and with nature, man must follow Supreme laws. He is not expected to know these laws intuitively, no indeed, but rather God sends a teacher from time to time to reiterate His laws and reveal new ones. His Messenger for our age is BAHÁ'U'LLÁH. WOULD you like to learn about Him. Call David or Glen at 479-2884.

# Electronic Club News

THE Electronic's Graduation will be held on the 23rd of April from 6 p.m. to 1 a.m. at the Viking Smorg. A supper will be served between 6:30 and 8:30 p.m. and will consist of four different plates, which will be served smorg. style with the dance to follow. There's some rumors that the Orchestra will be the same one that NAITSA had for the Queen Ball.

Tickets will go on sale soon at the very reasonable price of \$7.50 per couple. Ticket sales will be cut off two weeks prior to the Grad, so that the people organizing the Grad can get things organized.

All Year C students are welcome, it is not necessary to be a member of the club to attend. So let's make this the best Grad ever and have everyone out!

The club elections will be held on the 26th of this month, so get your nomination in now!

It's been rumored that the club is going to throw another one of those wild little bashes next month.

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you to KOS COT, how about introducing yourselves. This popular brand is increasing in sales and the need for young women to sell KOS COT is great. Like any other brand, prices are competitive to each other.

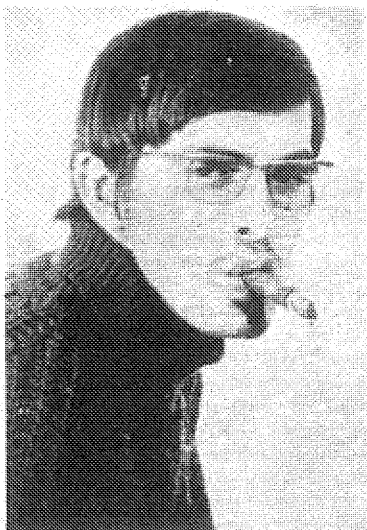
Anyone interested in selling KOS COT will not be restricted to any particular district and they will receive complete training. The sales woman receives 40% commission of what ever she sells. All persons interested contact your friendly KOS COT lady and have a chat with her. Contact Mrs. Ghilone at 455-5901. between 5:30 and 7:30 p.m.

# "WHERE THE



# GOOD FOOD IS"





# Surging Enrollment At NAIT

The Northern Alberta Institute of Technology began accepting applications February 1st. for the next academic term, to commence next September. Indications are that enrollment will surge to a new high.

Of the Institute's 48 technologies, enrollment quotas were reached on the first day in one dozen Sciences, Computer Systems, Dental Assisting (one year), Dental Laboratory, Dietary, Forestry, Meat Cutting, Medical Record Librarian, Medical Typist, Photography, Radio & T.V. Arts and Social Services has received applications greater

in number than the stated quotas. Of these, Social Services with 224 applications for 44 available positions and Biological Sciences with 182 applications for 67 positions led the list in popularity. The attraction of these two technologies has given NAIT Administration a rather weighty dilemma. At the expense of other programs, enrollment quotas in Social Services and Biological Sciences could be increased but job opportunities would not likely match the graduation numbers two years hence. The present quotas have been set according to surveys which indicate probable industrial demand.

Other programs at NAIT nearing their quotas include Business and Marketing Administration, Commercial Cooking, Heavy Duty, Respiratory and Secretarial.

All high school students and others intending to make application to NAIT are urged to do so

immediately. This includes most of those programs presently filled. Applicants who withdraw are replaced from those students on hold lists for each technology.

To date this year, NAIT has received 1,958 applications compared to 1,297 at the same time last year.

## JAPROK

Through the past year, Nait students have been studying diligently to accomplish the ultimate goal, a diploma which will say, you are a technician. On this weekend the students endeavor to show the public exactly what they have been studying. To many people the ideas and objects displayed may seem rather foreign. However, because of the advanced training the students at Nait receive, it is difficult to make presentations which will be understood by all people. Students will man positions at displays so that any questions which may arise will be answered.

If you ever have a chance to sneak into the Blue Room do it. The food not only is far superior to the cafeteria, but there is a choice... The First annual Nait Marbles open is to be held March 24 between the hours of 12:00 and 1:00 P.M. Rules and application forms may be obtained from the Nugget office. There has been a trophy donated by a telecom student for the Marble champ. The competition of course is mixed.

...A student at this institute asked his instructor a question concerning a (what he thought was a pilot plant) plant at Pine Point. To his dismay the question was left hanging and the student was ignored.

...The next time you head down to medical Services you may be surprised to see that A.J. Franko is not there. Seems she is leaving the city for greener pastures in Calgary.

## The Joy Of Meeting

R. Neuman  
Chaplain

WHO AM I?

Be honest! Have you ever tried to analyze yourself? Of course you have, and, you have used, no doubt, every conceivable standard and measure. Or, have you? From a chaplain's point of view, I wish to share something, and trust my little contribution to the NUGGET will be provocative enough to do someone, some good. In view of the fact that we are people of every size and shape with a conscience tender and otherwise, I remind you; If you are small, people look at you. If you are of average height or above, people will notice you. But if you are just below average, there is always the danger that you will be missed. Less than average in height, Zacchaeus used the various ways available to compensate for it. He found means of drawing attention to himself. One day, climbing a tree to get above the rest and perhaps as anxious to be seen as to see, he found a new friend, and the meeting changed his life.

The moment of revelation came to him through his disability. If he had not had to climb that tree, he might have been missed. It was just because he has less than average that Jesus found him. This could explain why some peo-

ple never find God. They are to competent and too capable. God seems to pass them by, as if to say, "There is no need for the two of us to run the world." But when a man is conscious of his weakness, God is there. So it was, Jesus came to Peter when he denied him and to Judas when he betrayed him. So it was that Pilate, always on top, never found him, though Pilate's wife almost did.

What all happened in Zacchaeus' house nobody knows. But it is a fair guess that Jesus put His finger on the weak spot. Zacchaeus was not really the blind, thoughtless, unscrupulous type. He was the respectable man who had a conscience about the less reputable side of his nature. Too many of us have got some part of our own life of which we are ashamed and which we hope will never be found out; but once we can admit it, life takes on a new meaning for us. May the Lord grant that in some day-to-day event you may meet a person who will help you see yourself and so find a new satisfaction in living. (Suggested Bible reading Luke 19: 1-10)

P.S. Rev. Neuman is at NAIT every Tuesday from 11 a.m. to 1 p.m. If you would like to talk with him come to E 121.

## Jokes

Mr. Runbey was skipping along the street humming a gay tune. His neighbour, falling in step with him, remarked, "You're pretty happy this morning."

"Right you are," grinned Mr. Runbey. "I just cured my wife of yelling at me all the time." "Well, well. How did you do that?" "I convinced her that it was making a nervous wreck out of the dog."

When the husband started about his business as usual the morning of his 25th wedding anniversary the wife was rightfully annoyed.

"Don't you realize what day this is?" she asked.

"Sure I do," he replied. "Well, let's celebrate by doing something unusual."

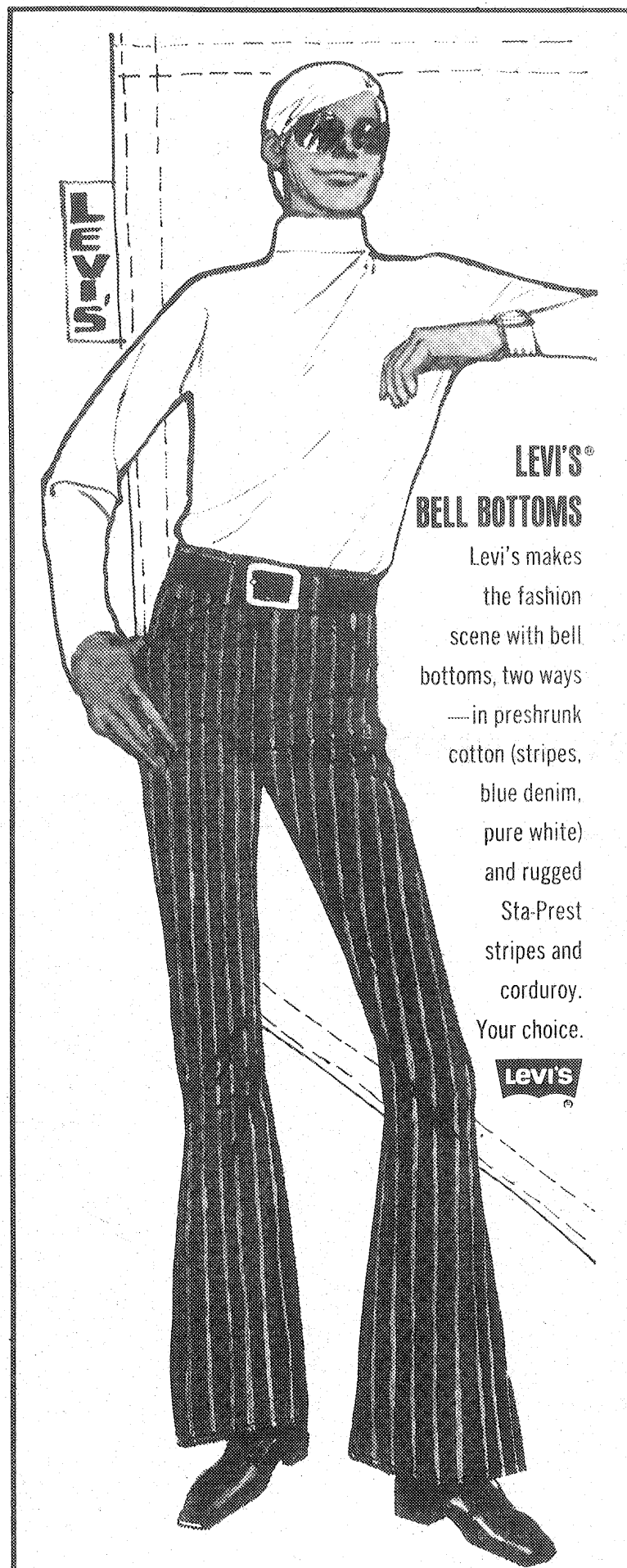
He meditated for a moment, then he suggested quietly, "How about two minutes of silence?"

A Chicago zoologist had a visitor from out of town, and decided to show the visitor around the zoo. In pointing out the different animals, the host told the visitor, "We have several peculiar cross breeds here at the zoo. Over here is a cross between a swan and a goose which we call a swoose. Here is a cross between a deer and an antelope which we call a dope. Now this is a cross between a fawn and a duck, but we just can't think of a name for it."

Diner: Waiter, these veal chops are as tough as leather!"

Waiter: Why, sir I can assure you that less than a month ago these very chops were chasing a cow."

Diner: "Maybe so, but not for milk."



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# NAIT Ookpikettes

## SUMMARY OF THE 1969-70 BASKETBALL SEASON NAIT OOKPIKETTES

The NAIT Ookpikettes were entered in the Alberta College Athletic Conference League during the 1970-71 season. The outcome of the games played in the ACAC league were as follows:

GAMES	NAIT vs CLC	SCORE
Nov. 28	NAIT vs RDC	21 - 34 L
Nov. 27	NAIT vs SAIT	17 - 76 L
Nov. 28	NAIT vs MRC	24 - 36 L
Dec. 4	NAIT vs RDC	32 - 28 W
Dec. 5	NAIT vs SAIT	34 - 69 L
Jan. 15	NAIT vs MRC	35 - 47 L
Jan. 16	NAIT vs OAVC	33 - 49 L
Jan. 17	NAIT vs CLC	51 - 30 W
Jan. 22	NAIT vs OAVC	34 - 32 W
Jan. 23	NAIT vs MHC	50 - 31 W
Feb. 12	NAIT vs MHC	18 - 15 W



5 wins - 7 losses

### A.C.A.C. TEAMS

C.L.C. - Camrose Lutheran College

R.D.C. - Red Deer College

S.A.I.T. - Southern Alberta Institute of Technology

O.A.V.C. - Olds Agricultural and Vocational College

M.R.C. - Mount Royal College

M.H.C. - Medicine Hat College

Sylvia Moroz placed second in the scoring race with a total of 156 points. Kathy Crimson of R.D.C. placed first with 164 points - only 8 points over Sylvia. Alicia Maluta and Pat Mackie placed in the top 30 scorers of the A.C.A.C. league as well. Pat had 59 points while Alicia had 55.

Vickey Pierog made 50% of her field goal attempts good to come up with the highest shooting average of the team in the A.C.A.C. league. Sylvia Moroz made 57% of her free throw attempts good to have the highest shooting average in free throws. The top rebounder within the team was Sylvia Moroz, with a total of 100 rebounds. Alicia Maluta came up with 92 rebounds, while Carol Papworth brought down 77 rebounds.

The N.A.I.T. Ookpikettes were also entered in the Edmonton Ladies Basketball Association League. Since N.A.I.T. won the "B" Championship in the 1969-70 season, N.A.I.T. was put in the "A" division for 1970-71. N.A.I.T. finished the season with 7 wins and 2 losses. At the time that this article has been written the play-off games have not been played so it is not known who the championship team will be. Combining the field goals made in the A.C.A.C. league and the E.L.B.A. league, the following are the top scorers from the N.A.I.T. Women's Basketball team.

Sylvia Moroz 318 points

Pat Mackie 117 points

Alicia Maluta 116 points

Barb Patrick 81 points

M.C. Collister

Basketball Coach

# Sports

## Hoop Highlights

Frank Ainsworth is the 1970-71 A.C.A.C. scoring champion (266 pts. in 12 games). The 1971-72 season will see play-off action among the top four teams with the winner representing Alberta in the Western Canada College championship.

The 1971-72 season looks bright for NAIT. There are four returnees F. Ainsworth, R. Andresen, R. Krohman, V. Wolf. Last year's first all star and scoring champion, Bob Butlin is returning. Reports also have it that some outstanding high school players are coming NAIT's way.

## Intramural Activities

For the students who wish to keep themselves in top physical condition as well as have a lot of good fun, NAIT has an excellent Intramural program.

The intramural season starts off early in September with the inter-tech golfing competitions. This year it was won by Computers Technology.

The activities continue through the fall season with such outdoor sports as cross country running, flag football and soccer. Computers also were victorious in the flag football, Architectural technology won the cross country event and Exploration won the soccer title.

The winter months see a barrage of indoor activities coming at the students. For the real active ones, there is continental handball, basketball, badminton, wrestling, hockey and curling.

For those who like to take it a little easier, bowling, archery, table tennis and volleyball fit the bill very nicely. With this season only half completed, the winners up till now are:

Continental Handball

Volleyball

Basketball

Badminton

Wrestling

-Business Administration

-Drafting

-Gas

-Architectural

-Exploration

All Intramural activities are scheduled in the evening hours and do not interfere with class time. They provide an excellent means for getting rid of frustrations and just getting away from the old books. They generate an inter-tech rivalry which boosts the spirit in the institute and makes it a friendly place to attend.

With the proposed Student Activities Building, there will be more facilities for such activity and the Intramural program can only improve!

## Wrestling



Alberta College Athletic Conference

Wrestling Championships

When-March 19-at 4:00 p.m.

March 20-at 10:00 a.m.

Where NAIT gym

Teams-Red Deer College, Camrose Lutheran College, Olds Agricultural and Vocational College, Medicine Hat Junior College, Mount Royal College, SAIT & NAIT.

The NAIT team has entered several competitions this year and achieved a good deal of success. The competitions entered have been the Junior College tournament at the University in which we tied for third place and the NAIT Invitational meet in which we placed second.

The major competition for the NAIT wrestling team will be the ACAC finals on the 19th and 20th of March. NAIT won the championship last year under the guidance of coach Larry Speer and is hoping for the same this year. Some of the outstanding wrestlers on the eleven man squad are: Dave Boyd at 126 lbs. Brian Marcus at 142 lbs. and Victor Michalchuk at 158 lbs. Several newcomers who have an excellent chance of winning their respective divisions are Les Jingling at 134, Gene Chomik at 150 and Ivan Gramlich at 167. NAIT's light weight Jack Cassidy (118) and Heavyweight Frank Chinn also have excellent chances.

Larry Speers



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# NAIT Ookpiks

The 1970-71 season for the NAIT Ookpiks is nearing completion after 6 months of hard, tough basketball. Up to this point the Ookpiks have played 30 ball games. The Ookpiks have 5 more to go plus the Playoffs, which will make a season of at least 36 games. Following is a brief summary of team games:

## 1. A.C.A.C. (Alberta College Athletic Conference)

Teams: Mount Royal, S.A.I.T., Medicine Hat, Red Deer, Camrose, Olds, N.A.I.T.

Record: 3 wins - 9 losses

## 2. Sr. "B" League

Teams: Panthers, Y.M.C.A., Cagers, Garneau, Police, St. Albert, Bonnie Doon, Natives, St. Jean's, N.A.I.T.

Record: 7 wins - 6 losses

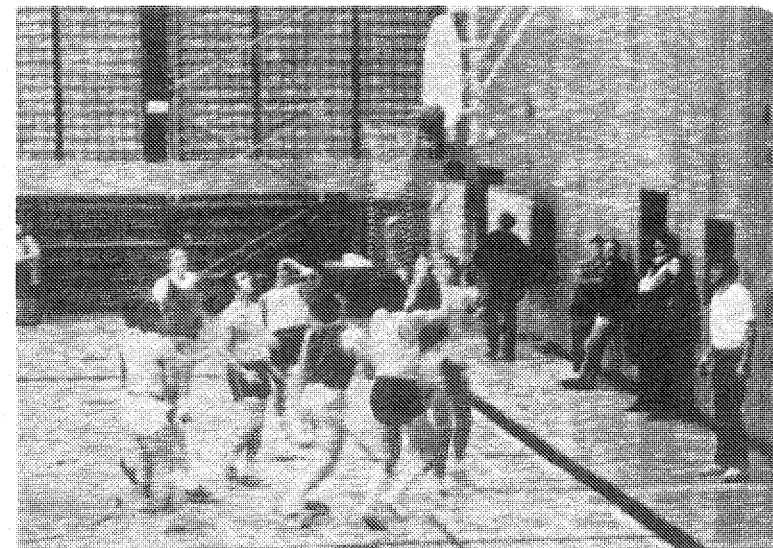
## 3. Exhibition

Teams: O'Leary, Saskatoon (4) 2 in Edmonton, 2 in Saskatoon

Record: 5 wins - 0 losses

Following are the state of the 1970-71 Ookpiks:

Position	GP	FGA	FGM %	FTA	FTM %	BBDS	Steals	PTS.
G. Greg Michetti	30	322	102	31	91	53	59	257
G Bill Wyrostok	30	214	65	31	102	48	79	174
F Joe Butkovic	29	290	95	33	107	54	51	243
G Rick Krohman	28	206	29	28	40	30	75	76
G Dave Wilson	11	10	4	40	19	1	25	6
F Volker Wolf	24	105	26	25	209	141	59	93
F Roger Andresen	30	542	187	35	232	104	69	371
F Frank Ainsworth	30	758	253	34		44	464	54
								610



# Badminton



The NAIT badminton teams have been looking very good so far this year and a great deal can be expected from them at the AC meet. The ACAC meet will be held at NAIT this year and will be taking place during Open House March 19-20. Spectators are welcome. The team members have

taken part in two tournaments so far this season.

(1) NAIT Invitational Sports Weekend which was held in January and the teams placed first.

(2) NAIT Invitational Badminton Tournament held on March 6 against Red Deer and SAIT. Total point standings were:

NAIT - 29 RDC - 21 SAIT - 15

# NAIT placings

Men's Singles - John Wimbush-2nd.

-Gordon Anderson -4th

Women's Singles - Sylvia Moroz-1st

-Gerry Cook -3rd.

Men's Doubles - Orville Borys & Gordon Anderson -1st.

-Jay Taylor & Rick Piasecki-4th

Women's Doubles - Gerry Cook & Irene Korolak -1st.

-Lucille Letersky & Orville Borys-5th.

Men team members are: Phill Murray, John Wimbush, Gordon Anderson, Orville Barys, Stuart Palk, Jay Taylor, Rick Piasecki. Women team members are: Sylvia Moroz, Irene Korolak, Gerry Cook, Lucille Letersky, Ethel Chalfoux, Sandy Cunningham.

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# Womens Volleyball

The women's volleyball team got off to a late start this season but we have the nucleus of a very good team. The girls worked hard in competitions against the other ACAC teams. They placed third in the NAIT Invitational Sports Weekend, 5th in the ACAC meet and third in the Calgary Open. The girls and coach, Mr. Reeves, should be congratulated for their fine effort. The girls are competing in two tournaments in the near future.

1. Costa Chrysanthou Memorial at U of A gym on March 20

2. Edmonton Parks and Recreation Open (the place and date to be announced).

The members of NAIT's Women's Volleyball Team are:

Mary Beer

Ethel Chalfoux

Irene Korolak

Janice Richards

Sheila Savage

Marie Halulera

Karen Gaetzman

Irene Salanczyi

Sylvia Moroz

Mary-Lea Rivet

# Mens Volleyball



Once again the NAIT volleyball team folds after a lengthy and uneventful season. It began one Thursday afternoon at five o'clock early last fall with a handful of enthusiastic players. It ended Saturday, February 6, 1971.

This year the host centre for the A.C.A.C. championship was Camrose.

The men's team played good volleyball most of the tournament, despite injuries and lack of players, which plagued them all season. NAIT went with their six starters: Jim Cairney, Guy Pallister, Jay Taylor, Grant Shannon, Joe Cabay, and Ernie McLellan while coach Louis Davidek was reluctant to play Dieter Jacobs who sprained his ankle just a week and a half previous to the trip to Camrose.

NAIT split with Camrose, Olds, Red Deer, SAIT, and M.R.J.C. but lost two to Medicine Hat, whom went undefeated to pick up the trophy from the defending champions - NAIT.

Perhaps next year the team will be more successful!

# Hockey



The NAIT hockey team has just completed a rewarding season in the Alberta Colleges Athletic Conference. The team ended their season in first place and were declared co-champions with Red Deer College. In terms of statistics NAIT defeated Red Deer in points for and against as well as defeating RDC twice and trying once. The ACAC ruling, however,

states that if two teams are tied at the end of the season in team points a co-championship shall be declared. Fortunately most of this season's hockey team will be returning for the 1971-72, season promising another successful year. The team, their coach, Mr. Bresnahan, and all others involved should be congratulated on a very successful season.

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# Series on Fashion

- by Debbi

Are you aware of yourself?

On Tuesday, Feb. 23, Miss Whilton spoke on the application of makeup according to facial features.

The topic of makeup arouses the interests of all girls, young and old.

Doesn't it make you wonder sometimes, how a certain lipstick or eye makeup will look good on one person, but not on another? Remember, though, make-up does not make your face, it accentuates it. Whether this accent is good or bad, depends on the applier, not the face.

A good knowledge of your face structure will give you a hint as to the type and brands of make-up to use. One can effectively accent these highlight spots with the proper application of make-up in certain spots.

How can you know your face type?

Take a ruler and measure the length of your face from forehead to chin. To find the width, measure the three widest points on your forehead, cheeks and jaw. Everyone will differ because of different bone structure. You still can assume if your face is oval (egg-shaped), square, round, oblong (long and narrow), triangle, diamond-shaped, or the shape of an inverted triangle.

Be aware of the balance of the face when applying makeup. Your features can effect the way you apply it. You could present a whole new outlook with little touch ups here and there to bring out highlights.

Secrets of Makeup

1. Your background (including skin tone, clothing, hair style, and time you allow to apply) affects your application to make yourself look vibrant rather than dull.

2. Smile, it effects everything you do. Who wants to go about looking tired when you really feel active.

3. Accentuate your facial features with corrective makeup (highlight and shadow) to bring out or recede.

Makeup on You

Four rules in application of make-up about the real you.

1. Handle it lovingly by applying and removing it slowly.

2. Be in a cheerful mood. Don't do it as a task.

3. Expect the kind of results according to the way you put it on.

4. Notice the results of your application. "Work is love made visible."

Every individual wants their makeup on a certain way to create a good impression which satisfies the individual. A brunette tends to create an impression stronger intensity in application of makeup whereas a blonde tends to create a soft and natural impression.

Hint: To hide freckles apply a lighter base than the colour of freckles.

This particular lecture has proved to be quite benefiting by the number of questions asked. Makeup is such a topic, that one could write endlessly about, seen from the number of books written on it. Only one aspect was presented here, but even this is an important consideration. The re-

sponse has been good up till now as far as the registering of March 23 series goes. There is a limit 25 openings, so you had better get your name in.

The March 2 lecture was cancelled till March 9 due to exam week.

Make sure you stop by and visit the Nugget office and enjoy your visit to Open House.

## COOKING SET

This is a basic casserole dish that can have any leftover meat

added to it but still tastes great without.

## Spanish Macaroni Dish

1/3 cup macaroni

2 tsp. margarine or butter

2 tsp. flour

1/8 tsp. salt

1/2 cup milk

2 tbsp. diced celery

1/2 cup canned tomatoes

1 tbsp. chopped onion

2 2/3 tbsp. grated cheese

For your own taste, shake a few grains of salt and pepper.

Cook macaroni in boiling salt water until tender. Prepare white sauce with margarine, flour, salt and milk.

Drain and rinse macaroni. Add celery, tomatoes, onions.

Place in a greased casserole dish and then pour sauce over and sprinkle grated cheese on top.

Bake at 350 degrees for 1/2 hour.

Here is a speedy hamburger dish.

## Meat Loaf

-serves two

1/3 lb. hamburger

2 tbsp. chopped onion

1 tsp. salt

1 egg

1/8 tsp. pepper or poultry seasoning

2 slices cubed bread

1/4 cup milk

1 1/2 tsp. worchestershire sauce

Combine all ingredients in bowl. Place in tins.

Bake at 375 degrees F. for 12 minutes

# Jamaica & Pakistan

Jamaica is 4,411 square miles in area. It is the third largest, Caribbean Island. Situated between 17 degrees 43 minutes and 18 degrees 32 minutes Latitudes, and between 76 degrees, 11 minutes and 78 degrees and 21 minutes West Longitudes, Jamaica is conveniently located. It is about 5 hours flight from Montreal and Toronto. From New York or Chicago, it is 3 hours 45 minutes and 3 hours 55 minutes away - respectively.

Being only 144 miles long and 22 to 55 miles wide, Jamaica can be easily and quickly traversed.

It is situated in the middle of the Caribbean Sea lanes and flying routes. By jet it is merely hours flight from everywhere.

Geographical attractions include mountain scenes, which include the 2000 ft. Blue Mountains, whose summits reflects some of the most glorious scenes. Rivers include the Yallahs, Water, Rio Grande, and many more. There are many water activities to attract anyone's attention.

Because Jamaica is an island, surrounded by the translucent water of the Caribbean Sea, there are beautiful beaches everywhere. Here are beaches with pounding surf, beaches with white sand or black sand, beaches is cozy coves, or beaches which are exposed fully to the tanning rays of the Caribbean sunshine.

The combination of sunshine, water, and attractions, together with each individual's generous opinions, has coined Jamaica as one of the better tourist resort areas.

## Populations

Kingston is the capital of Jamaica and consists of nearly 1/2 million people. Jamaica has a population of approximately 2 million people.

The people who now inhabit Jamaica, are from many ethnic groups and nationalities. Dated back from its days of discovery in the late 15th century, people of African origin have apparently been the most dominant figures. It's hopeless however, to attempt to estimate the relative importance of people of different ethnic or national origin in the present Jamaica. The population, besides African descendants include Spanish, Scottish, Irish, Portuguese, English, French, Germans, and many more. Their arrival started from the late 15th century until the early 19th century.

## Economy

The economy of Jamaica is based chiefly on Bauxite (the ore from which aluminum is made), mining, agriculture, manufacturing, construction and housing.

The island's currency is dollars and cents. The greatest trade between Jamaica is with the United States, Canada and the United Kingdom.

## Government

Jamaica is governed by a two party system, which centers around a legislative and a house of representatives.

The policy is democratic. Jamaica gained its independence on the 6th of August 1962.

## PAKISTAN

This early Indus Valley civilization which can be seen today in the cities of Jarappa and Moenjodaro in West Pakistan, was contemporaneous with civilizations of the Nile Valley in Mesopotamia. In fact, the peoples of Jarappa and Moenjodaro were experts in art and creation before Babylon was built.

As history advanced down the centuries so foreign invaders advanced down the Khyber Pass. The gateway through the mountains of Central Asia to the Indian subcontinent saw the Aryans, the Persians under Darius in the sixth century B.C. The Great Greek armies under Alexander the Great marched down through this pass in 326 B.C. and it was in this era, and only in Pakistan, that the synthetic Gaudhara art came into existence, still to be seen here.

It was in 710 A.D. that the Arabs with Islam, settled down in this region. Two centuries later the Khyber Pass saw another conquering army under the thundering horses of Ghengis Khan. By the 17th century the entire subcontinent was dominated by the Moghul Rule. They left a rich heritage in art, culture and architecture, which still prevails in Pakistan.

In 1857, this region was again changing rulers, but this time a European race. The British took over, giving a different touch to the already enriched culture and art. This resulted in a different struggle by the Muslims of the area which ended in the creation of a new homeland for the Muslims called Pakistan.

The country today consists of two geographical units - West Pakistan and East Pakistan, divided from each other by a 1,000 miles of Indian territory.

Totally Pakistan covers 365,000 square miles (larger than the combined areas of California, Oregon, Washington) and is the home of 112,000,000 people, making it the sixth largest country in the world after China, India, U.S.A., Russia, and Indonesia.

The two wings differ vastly in climate, people and language. West Pakistan, with 57 million people consists of snow-capped Himalayas, Hindu Kush and Pamir mountains in the North down to the sun bathed shores of the Arabian Sea. Between lie desert land, fertile plains, lakes and glaciers.

East Pakistan, home of 61 million people, is a land of mighty flowing rivers, dense sub-tropical forests, palm-fringed villages and glorious green landscapes.

News patterns of life will continue to evolve, growing richer and more colorful as increasing awareness comes to the people of their inspiring past and bright future. Elements of the modern, industrial revolution are already in Pakistan and steady a developing and progressive nation is evolving, fit to take an honourable place in the world of today!

## BASIC FACTS

Population:

112 million

West Pakistan

East Pakistan

58 million

61 million

Area:

West Pakistan

East Pakistan

310,403 sq. miles

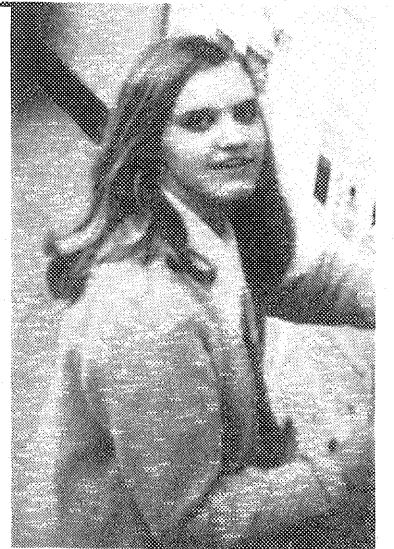
55,126 sq. miles

Trade Exports:

Raw jute, raw cotton, raw wool, hides and skins, tea, rice, cotton yarns, and jute manufacturers, sports goods, etc.

Trade Imports:

Industrial machinery, metals, chemicals and drugs, coal and coke, oil, hardware, and spare parts.



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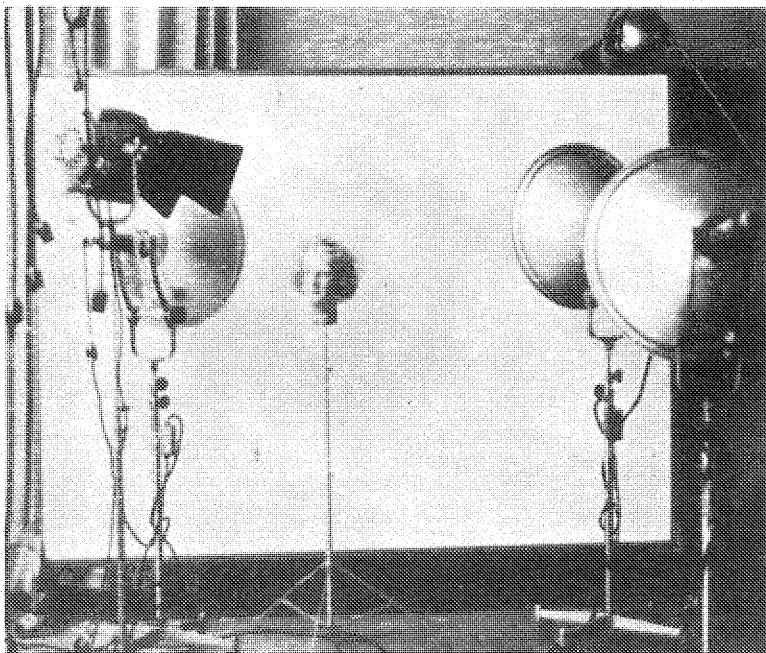
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# Photography



Photography as a hobby is fun; as a career it is satisfying. The converse is not necessarily true. The two year photography course offered at NAIT is designed to equip students for a career in photography.

In the first year, students work with black and white photography. Studies of this year can be divided into four main areas. First, in camera control. This includes a strong emphasis on learning to use a 4 x 5" view camera, long the stalwart of the profession, as well as roll film cameras. A second area is darkroom work. For film this includes normal development of film, altering development for final print tone control, use of different film and developer combinations and special aids such as reducers and intensifiers. A large amount of time is also spent on printing and learning burning and dodging, bleaching, and retouching for a better product. The third area is

technique. This includes techniques of portraiture, commercial, product, industrial, and architectural photography. Fourth, and one of the most important, the student is taught to appreciate light and its many effects, for without light there can be no photography.

The second year of the course teaches students color photography and the basics of movie making. Color printing and quality control of various color processing lines receive as much emphasis as does learning to shoot in color.

As well, in both years, students take various service courses such as chemistry, physics, business, English, and audiovisual which are designed to further equip them for careers in the photographic industry.

All courses are taught on a basis of a lecture on a topic followed by a practical assignment on that topic. The instruc-

tors then criticize the student's attempt and either mark it or require that it be done over so that the student does develop a correct understanding of the topic. As a large number of assignments are given, and many often have to be re-done, any student who is taking the course for photography as fun and who is not prepared to work, is soon hopelessly behind.

Further, although a great deal of equipment and materials are provided to students, most of the students find it necessary to buy a considerable amount of supplies on their own.

Nevertheless, for several years now, NAIT has received more applications for the photography course than it can accept. Students who are accepted, and who do complete the assignments and courses successfully, graduate knowing that they are competent to earn their living in a highly competitive occupation.

## Radio and Television Arts



The Radio and Television Arts course at the Northern Alberta Institute of Technology was initiated three years ago to provide well trained personnel for the broadcasting industry in western Canada.

The first year of the course deals with radio announcing, writing, and radio production. Although basic radio electronics is also taught, the artistic concept of radio is emphasized. Students in the first year produce "talk back" shows, radio documentaries, dramatic products, and work in conjunction with CHNR (student radio) to stimulate actual working conditions in the broadcasting field.

Entrance requirements for Radio and Television Arts include grade twelve graduation, with a "B" or better in English 30, or good knowledge of the performing arts is also beneficial.

Second year Radio and Television Arts provides the student with techniques in television production. "Jamble", a half hour

variety show is produced weekly on closed circuit television providing students to work in different capacities in producing a television show. Experience is gained in directing, switching, performing, camera operation, lighting, telecine, script assisting, and many other aspects of television production. Second year students are also trained in the use of photography as applied to television documentaries and news stories. Working with 35mm still cameras, and 16mm movies cameras, the student shoots various film, and gains valuable experience in processing the film during laboratory classes.

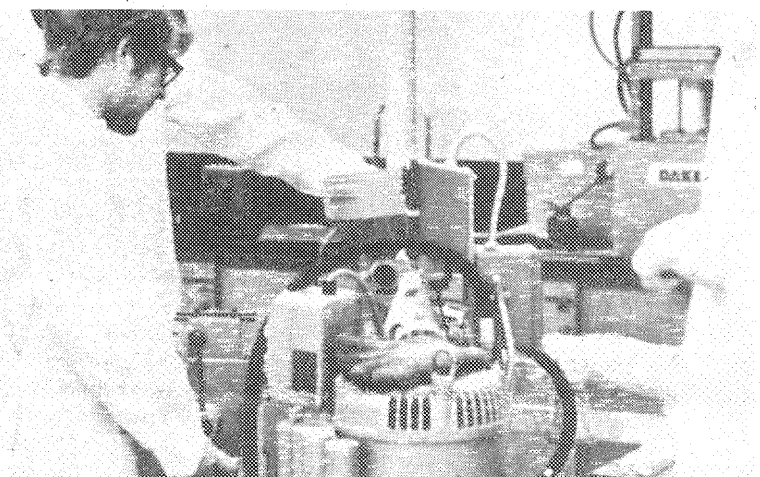
Over the three years' existence of Radio and Television Arts, a vast amount of professional equipment has been installed. This equipment includes two vidicon color cameras, four black and white video tape recorders, one color videotape recorder, twelve Sparta audio boards, and a professional McCurdy audio

board.

When graduation time finally rolls around, the Radio and Television Arts graduate has an all round training in the radio and television industry. Proof of this was verified last year when approximately eighty per cent of the graduating class found jobs in the Edmonton area in radio or television stations. However, the demand for graduates is not only centered around the Edmonton area, as there are some three hundred radio and television stations across Canada, as well as advertising agencies and production houses where a graduate may become employed.

When Radio and Television Arts was only two years old, it achieved the distinction of producing the first local color television programs in Edmonton. However, the major goal of the course is to train the student in all aspects of radio and television production to prepare them for a rewarding future.

## Plastics



The Plastics Technology was initially started in 1966 and was the first full-time plastics course to be offered in Canada. Today NAIT offers the only course in plastics in Western Canada.

Although Plastics Technology is still one of the newest technologies, the Plastics section is expected to expand even more rapidly. This expansion is due to the increasing need for Plastics Technicians in industry. In Canada, the Plastics Industry has been growing at twice the rate of the national average of all manufacturing industries.

The growth of the Plastics Industry has been so rapid that by 1980, more products will be manufactured from plastics than from any other material. Many people visualize plastics as substitutes for other materials, but applications continue to arise where they are used as materials in their own right.

The course offered here provides sufficient background for a student to enter any area of the Plastics Industry. Some of the aspects of manufacturing processes

the chemistry of plastics, plastics properties, product design, analysis and plastics plant layout. Related topics are included to give full supporting coverage of associated areas.

Typical job opportunities occur in the areas of: raw material manufacture, processing and fabrications of plastic materials, sales-technical and commercial, research and development, testing and engineering.

The use of plastics is coming into our daily lives more & more: as an example of this, there is not one technology here at NAIT which does NOT make use of plastics in one form or another.

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# Secretarial

The role of a secretary is perhaps the most important one assumed by a woman in the business world. When the phone rings in a business office, it is usually the secretary who answers. When a busy executive wants to send a letter, it is the secretary who takes the dictation in shorthand and then produces a mailable transcript at the typewriter. When the executive carries heavy assignments, it is the secretary

who schedules his appointments, arranges his daily activities, and reminds him when necessary. When others are nervous and on edge, it is the secretary who remains cheerful and calm.

The secretary is the unsung office heroine who types, takes dictation, telephones, greets callers, keeps records, and seeks information. The secretary is an indispensable component of Canadian enterprise; she is the as-

sistant on whom her executive relies to conduct the day to day activities of today's business office. Today's secretaries are learning to accept the challenge of change thrust upon them by modern technology. Having earned recognition, status and prestige through the years, secretaries are now beginning to emerge as important members of the management team.

A secretary must be extremely

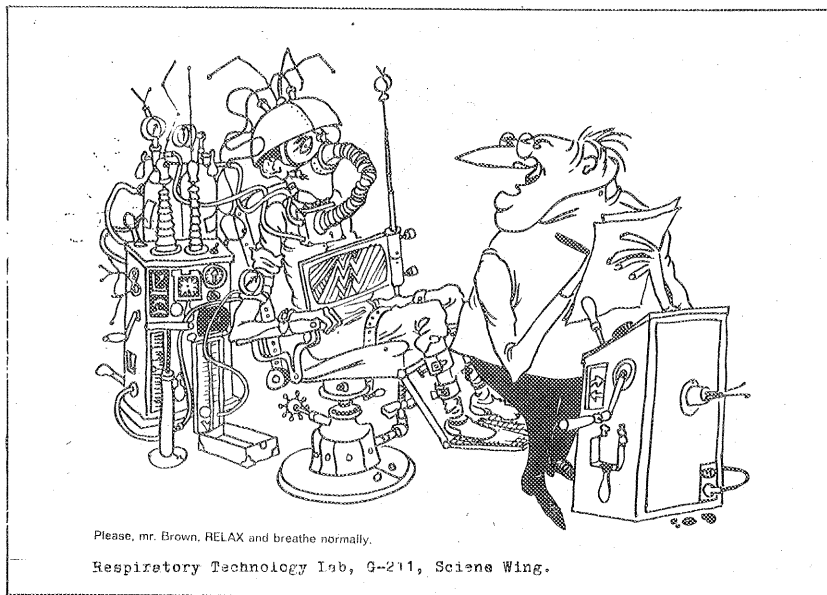


versatile. She must be prepared to perform countless activities that will free her boss to make more efficient use of his executive abilities.

A properly dressed, pleasant-looking, poised secretary with a cheerful voice, and a pleasant smile can be a great asset, not only to her employer but to an entire business organization.

Secretarial work is like any other work in that how far you go depends on you. If you are simply looking for a job, you can get it. But if you are willing to invest--in terms of service, study, time, practice, effort, improvement--you can become a top-level secretary with challenging responsibilities, a substantial salary, and a high degree of job satisfaction.

## Respiratory Technology



### Inhalation Theory

The tremendous medical progress of the twentieth century have made it increasingly difficult for physicians and nurses to perform all the functions in today's modern hospitals. Today there are many new para-medical professions that were completely absent a few years ago, but are now essential to the modern hospital. Respiratory Technology, most often termed Inhalation therapy in the hospital environment, is one of these young, new para-medical professions that is offered at NAIT.

Respiratory Technology has been defined as, an allied health discipline devoted to the scientific application of technology in order to assist the physician in the diagnosis, treatment, management and care of patients with respiratory and associated disorders.

The newness of Respiratory Technology, offers you a chance to share in the molding of its future as a Respiratory Technologist. A comprehensive two year training program for future Respiratory Technologists is available utilizing the facilities of the Northern Alberta Institute of Technology and some of the teaching hospitals of the province, which possess an accredited Dept. of Inhalation Therapy. The following Edmonton hospitals do sponsor students for enrollment at NAIT.

The course consists of two phases; ten months of amprehensive lectures and laboratory session conducted at NAIT, followed by twelve months of clinical technique in a hospital training school. During the two year program such subjects as physics, chemistry, anatomy and physiology, equipment design and function, equipment maintenances, micro-

biology, pharmacology, pathology and nursing arts will be presented along with actual clinical practice during the second year.

The Respiratory Technologist's responsibilities and labs generally make the hospital his place of work. The technologist is always working with people and the entire medical team and all supportive care toward caring for patients with cardio-respiratory disorders. The other, will be the maintaining the actual equipment used in such care.

The technologist's duties will vary according to the individual hospitals particular situations. These responsibilities generally include:

#### 1. Technical Maintenance

As the equipment utilized in treating patients is extremely technical, he must know how to maintain, adjust and repair equipment to ensure its proper function and results. For this reason, some understanding of physics is essential.

#### 2. Therapeutics

Serving the patient according to specific instructions from the physician. To do this effectively he must understand,

(a) the physical and psychological needs of the patient

(b) the doctor's goal in using-inhalation therapy

(c) how to accomplish this goal with his knowledge, technique and equipment.

#### 3. Administration

The possibility of advancement to a senior position in the hospital department is excellent. The duties of senior and supervisory staff include control of personnel treatments, patient therapy supplies, medical gases and equipment. All of these require systems, records and correct management. These duties will require and produce administrat-

ive ability.

#### 4. Teaching

The technologist is responsible for instructing patients and members of the patients family, about the requirements and benefit of their therapy. The technologist is also involved in the instruction other hospital personnel about the safe and correct application of inhalation therapy and equipment.

#### 5. Research and Development

Respiratory Technology is still in the stage of infancy in relationship to the other medical entities and the demand for research development and testing of new equipment is of optimum importance.

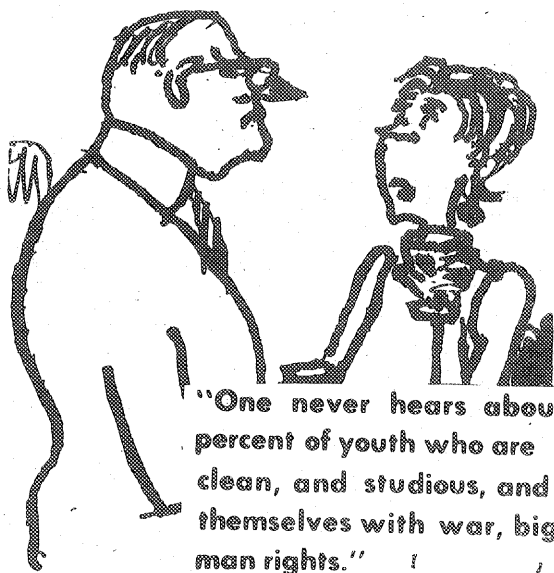
In order to do well in this field, an individual should have a genuine interest in people and their welfare. One must have the ability to work in harmony with all hospital staff and the assurance to face the encounters of life or death situations with competence. The students find the profession extremely challenging and rewarding because the work is always varied, exciting and interesting. This variety of work also means that the field is open to both men and women.

Prospective students who wish to visit an Inhalation Therapy Dept. should make inquiries at some of the larger hospitals in Edmonton where the equipment and work of the technologist in this area of patient care can be viewed directly.

In order to give you, as an undecided high school graduate, the opportunity to observe Respiratory Technology first hand, we, the class of 1970-71, extend to you, an, "Open House Invitation," to visit us in The Respiratory Laboratory, G-211 of the Science Wing.

Come and See, maybe you'll be me-next year!

## Social Services



The Social Services program is designed to provide the basic knowledge and skills, both practical and 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 physically and mentally disabled, juvenile offenders, alcoholism, drugs and many others.

Included in the curriculum are the following topics: the basic universal needs of people, human growth and development, contemporary social problems, case-works, groupwork, community organization, social service programs and resources, current welfare problems and practical administration include 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.

The program is growth oriented 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 course.

People who enjoy life, who have a 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 a genuine concern for other people.



# Survey

So you want to be a surveyor!! Do you realize that you have to be patient, aggressive, have a terrific knowledge of mathematics and have a strong back. You may never be as comfortable as your neighbour is, working in his little office, and you will get your share of frostbite, wet feet, mosquito bites and blisters. How many people you know have gone wading in stagnant beaver dams, walked miles across soggy muskeg and had their faces slashed while trying to cut willows with a dull axe? If you have the guts to become a surveyor, then welcome. Don't be misled by thinking that this life is one of solid hardships. Not quite. You may be working in the city near a nurses' residence, flying up to Melville and finding a raging blizzard, or having a riot pushing your four-wheel drive truck out of a creek.

What do you have to do to join this group of ultra-hardy men? Practical experience is always the best teacher. But don't limit yourself to one phase of surveying. You may not prefer one type but find your chosen field in another. They vary from city surveying which is very precise, to seismic surveying where ten feet is an acceptable error in distance measurement.

But where are the shortcuts? There are always shortcuts in every occupation. You may think the course here at NAIT is one.



Well, let me clue you in. If you are experienced in surveying, it is a waste of time and effort because the course is geared toward the man going for his professional status.

The math course in relation to

survey is adequate but other courses should be dropped for the benefit of students. The variety in a surveyor's life is lessening, professional draftsmen are used for drafting plans, computers are used for compli-

cated mathematics.

The main portion of the students enrolled in this course believe the extracurricular courses and non essential courses should be dropped and a one year course offered which will give a person

a working knowledge of problems which will be encountered.

This will give the large majority of the students a chance to learn all that is necessary in one year, instead of literally wasting a year learning useless facts and developing doubts as to why he is in this course.

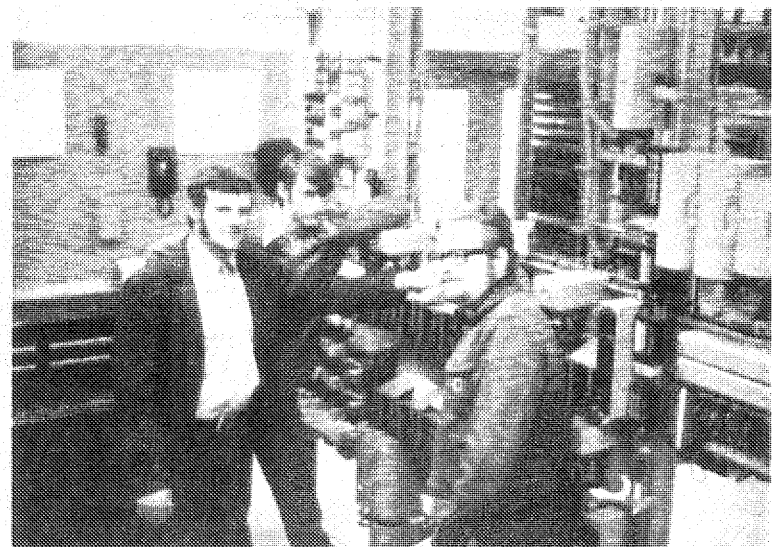
A second year could then be offered at NAIT or SAIT where students could enter a crash program in preparation for their professional examinations. This would result in better training and preparation for the exams. The person going surveying and not after his professional license, would then be released sooner to the job of his choice.

If you are expecting a fourth and fifth year of high school, forget it! This is an adult course and you have to work on your own. If you want a preparation course, this course at present is in the vague direction of a surveyor's education.

Ask a student enrolled in the courses for further information. Instructors are very biased, but after all, aren't they paid to give their opinions?

Surveying is an enjoyable career. The wages are the best, the working conditions are far from the best, but if you are outdoors minded it is a field of growing opportunity. Just over the hill is a whole new world of unsurveyed territory calling. Perhaps I shall meet you there.

## Telecommunications



Telecommunications Technology is a relatively young technology at NAIT. With the present 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 post-high 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 com-

munications system.

Graduate technicians will be able to carry out the various installations and maintenance programs in the field or will be able to serve in various supervisory capacities. Graduates can assist engineers in designing and testing the new 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 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 2-year accelerated program.

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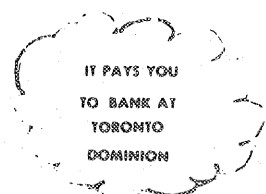
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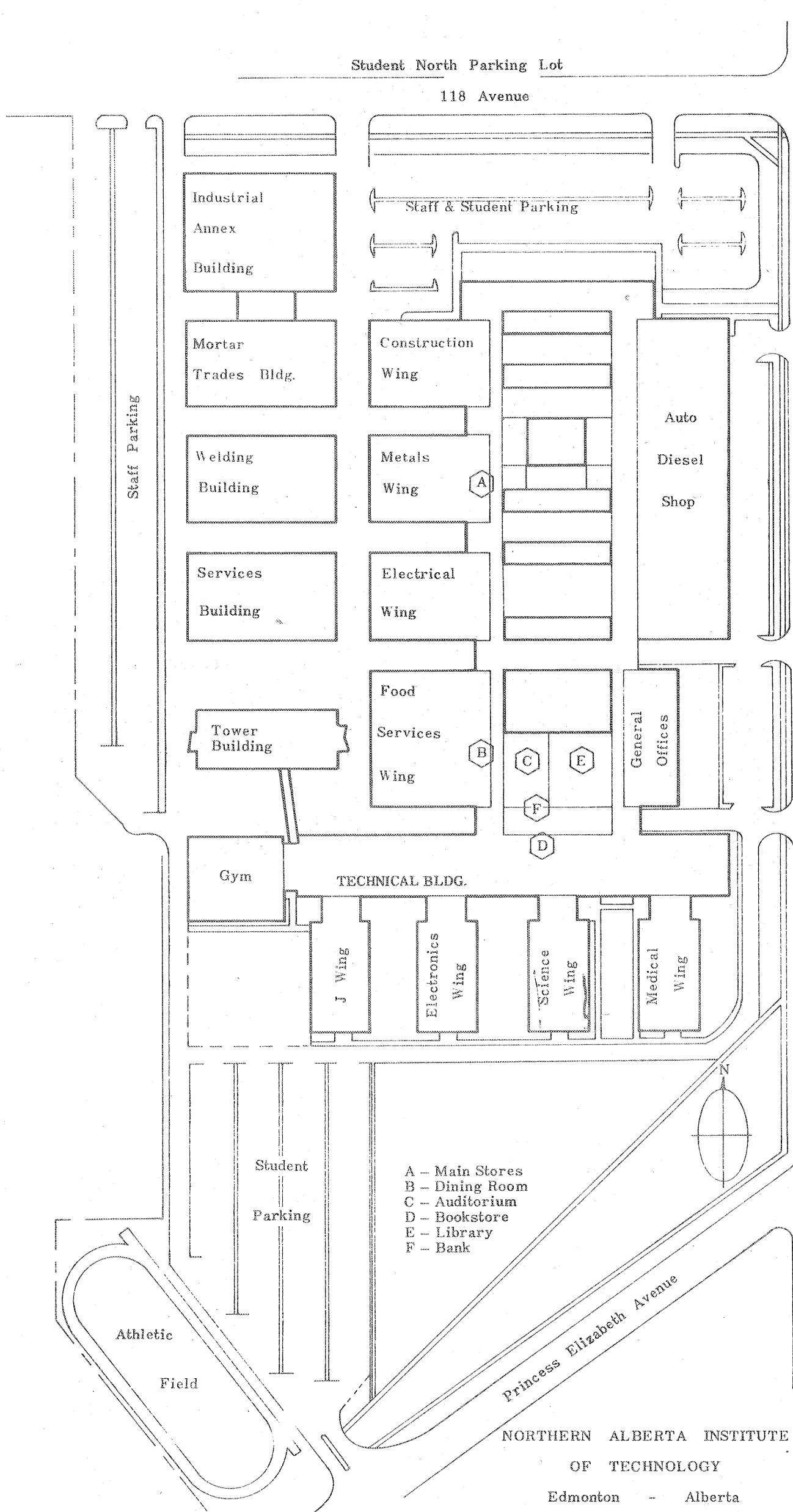
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