



## NUGGET STAFF

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## President's Message

In today's changing world change has become synonymous with stability. We at NAIT have changed considerably since the first buildings took shape nine years ago. We started in the era of the vacuum tube and rapidly entered the transistor age.

Our first computer, a 1620 IBM, was considered one of the advanced computers at that time. In our short span of years there have been several generations of computers since the 1620 IBM.

Such changes have made NAIT an interesting place to visit. We therefore cordially invite the cit-

izens of Alberta to visit NAIT during our Open House on March 19th and 20th. We open our doors to the public on March 19th from 9:00 a.m. to 10:00 p.m. and on March 20th from 9:00 a.m. to 6:00 p.m.

For the people that have never visited NAIT we think you will be interested in seeing not only the plant itself, and all the excellent equipment, but also the displays the students have created for your benefit. The accent on youth, the many good ideas generated, the atmosphere, the pride and the accomplishment in the work done is a most interesting phenomena to witness. We are sure the viability of NAIT cannot help but impress you.

The students are anxious to talk to you about what we do at NAIT. We hope the high school students will visit us and ask questions. With twenty acres of floor space, it takes time to see everything.

In the past three years over 40,000 people a year have attended Open House, we expect about the

same number again this year. Our enrolments have been restricted somewhat by space available, but this year we have 4,500 on campus during the day and expect we will have over 7,000 at night. In fact, NAIT is a small city in operation. Since our inception we have had 50,454 students take day courses and 40,382 take courses through our Continuing Education Division. This means 90,836 people have passed through our doors since 1962.

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

## 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 Institute 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 essentially 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.



W.A.B. SAUNDERS PRESIDENT OF NAIT

### NAIT OPEN HOUSE DANCE

MARCH 20, 8:30-12:00

"BIG DIPPER  
GREEN"

NAIT GYM

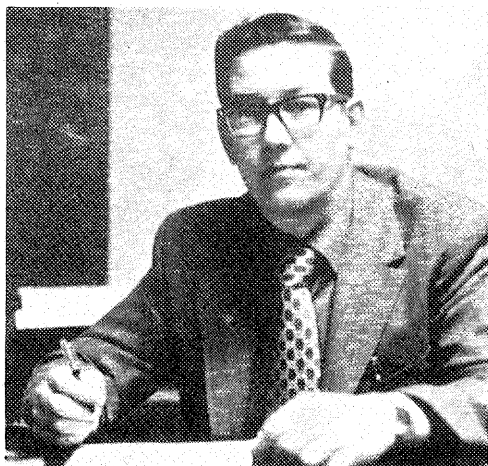
\$1.50 PER PERSON

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*Kingsway*

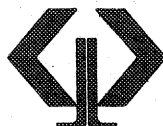
JUST ACROSS THE WAY WHERE  
YOU RECEIVE THE BEST DOLLAR  
VALUE IN TOWN

## Canadian Imperial Bank Of Commerce Welcomes You To NAIT

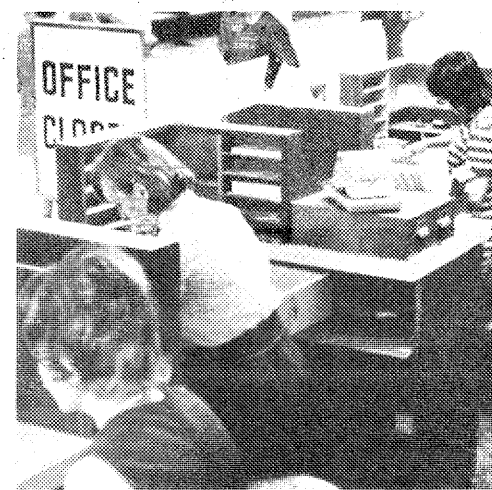


B.D. Brooks  
(Manager)

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CANADIAN IMPERIAL  
BANK OF COMMERCE



(Staff)



# Making Vocational Choice

An adequate vocational choice requires careful consideration of many factors before such a choice should be pursued seriously. It should be considered a personal investment which is not to be taken lightly. Many prospective students and registered students at NAIT select or transfer from one course to another without much real consideration been given to what is involved in either course. For example, a person who selects Social Services then transfers to Telecommunications after limited investigation does not have a full appreciation of the widely differing skills and abilities required. Also the decision should be made in terms of his aptitudes, abilities, interests, goals, employment possibilities, and personality temperament. One can soon realize that such a decision should not be made in a few minutes or overnight. In contrast to vocational selection which is often done through expediency, one spends considerable time deciding about purchasing a house or car. Assuming no new occupational re-training is necessary, the average teenager will spend approximately 35-40 years in this occupation. Is it not only good commonsense to reality investigate the occupation before leaping into it?

Assuming you have a good knowledge of your capabilities and interests through your high school record and results of tests which measure abilities, aptitudes and interests, what other factors should be considered before making your vocational choice? Some factors include:

1. Academic and Experience Requirements of the Occupation
  - a) What level of education is (1) desirable?
  - (2) absolutely necessary?
  - b) Are the educational standards likely to increase?
  - c) What combination of school subjects is best?
  - d) What special skills are required? dexterity, artistic, linguistic, mechanical, social etc.
  - e) Is previous experience (1) desirable?
  - (2) absolutely necessary?

## 2. Personal Trait Requirements of the Occupation

What personal traits are required? persistence, self-control, vivacity, leadership, ability to follow directions, initiative and resourcefulness, ability to accept responsibility, punctuality, good judgement, honesty, courtesy, and neatness.

## 3. General Nature of the Occupation

- a) Do the tasks and responsibilities involved mainly centre around
  - (1) people?
  - (2) things?
  - (3) ideas?

## b) What specifically, are the tasks and responsibilities involved?

- c) Does this occupation encourage mental growth?
- d) How does society view this occupation?

## 4. Restrictions (if any) involved in the Occupation

Are there any restrictions regarding the following: age, sex, race, color, height, weight, general physical condition, and personal appearance?

## 5. Physical Conditions Involved in the Occupation

- What are the
- a) hours of work?
  - b) number of hours of work per week?
  - c) overtime possibilities?
  - d) holidays?
  - e) indoor or outdoor work possibilities?
  - f) physical hazards of the occupation?
  - g) locales of the work?

## 6. Mental and Emotional Conditions Involved in the Occupation

What mental or emotional stress might one expect from

- a) the amount of supervision provided?
- b) the repetitive or creative nature of the work?
- c) the amount of responsibility which must be assumed?
- d) fellow workers and management?

## 7. Monetary and Other Benefits

- a) What is the present supply and demand for new workers?
- b) What is the future supply and

demand requirements?

c) Is the demand for new workers in the occupation better in certain areas of the country than in others?

d) What income may be expected

- (1) at present?
- (2) in the future?

e) What are the possibilities of promotion?

f) What type of pension plan exists?

g) What degree of tenure is there?

h) Are there any other benefits?

After determining what information to look for and some questions to ask, what are some sources of information? The sources of information might include:

1. Articles about occupations in well known current magazines and other publications.

2. Interviews with people who are experienced in the occupation

involved.

3. Interviews with vocational counsellors.

4. Attendance at career days in the various educational institutions.

5. Personal visits to the places where the actual work activities are in operation.

6. If possible, work in the area during the summer holidays to get a better perspective of what is involved.

In summary, vocational choice should not become an overnight decision. It requires some long term planning and evaluation by the student: He is the person who is going to be working in the occupation, not his parents, not his counsellors and not his girl friend. The final decision must always be made by the student.

S.M. Checkley, Head  
Student Counselling Services

# Toboggan



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toboggan?

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# NAIT

## Cafeteria

About the cafeteria being overcrowded, seemingly lower quality food, smaller portions being served, poor student-staff relations; these are some of the complaints which are most prevalent here at NAIT.

Before we delve further into these complaints let's get some of the background of a familiar figure seen at mealtimes in the NAIT cafeteria.

Mr. Lyle Carscadden is the Cafeteria Supervisor. He is responsible for the production of all food produced in the cafeteria. Before coming to NAIT in August, 1963, Mr. Carscadden owned and operated a restaurant business for nine years. Prior to that he worked with Palm Dairies on sales and demonstrations of dairy products in restaurants in the province of Alberta.

Mr. Carscadden informs me that the NAIT Cafeteria is operated on a "try to break even" basis and that students (commercial cooks) prepare the noon meal, under the guidance of an Instructor. The staff and students then serve the meals in the servery under the guidance of an Instructor. Mr. Carscadden does no actual teaching; he supervises the 48 non-instructional staff while Mr. N. Gilbeault, the Food Service Department Head, supervises the instructional part of the operation.

Now we will deal with the previously mentioned complaints one at a time.

"Being overcrowded." In 1963, NAIT was officially opened with the objective "to provide adequate preparation for the workers, irrespective of their rank in the social and economic life of Alberta." Also, to provide the opportunity, to as many citizens as is reasonable, for achieving maximum fulfillment of their vocational goals or occupational desires. Since 1963 a seven story tower and three other sections or wings have been added to try and accommodate the extra enrollment. There are plans to enlarge over the next few years, but so far there has been no additional seating space added to any of the eating or dining rooms. We have extended the hours of the cafeteria operation, added more cashiers and cashier outlets to relieve the crowded situation.

"Seemingly lower quality of food." The menus are prepared, during the summer holidays, by the Instructors and checked for price by myself. When preparing the menus the foremost thought in the Instructors mind is the student or commercial cook who is being taught. What is going to be expected of him when he graduated? Secondly, is this a well balanced diet for the students? Last but not least, the cost of a particular item or items. There are times where we have a very expensive item on the menu. That item was there in order to teach the student, preparing the food, the different types of food he may have to serve when he is out working in industry. Hence

with all this in mind we have to teach the students portion control. The students serving the meals are supervised by an Instructor but it is impossible to watch every move they make. Some students, till they have been taught awhile, over-portion and sometimes under-portion food on a plate.

"Poor student-staff relations." The student-staff relation will always be a problem to some. With the majority of the students there is no problem, just with a small minority. I think the reason this minority exists is they come to the school with a misunderstanding in regards to the operation of the cafeteria. They don't realize the cafeteria besides being used to turn out nutritious meals for them is also a classroom, and the cooks are students like they are. The one who criticizes forgets that he was not always perfect in his class. When he started, he had to make mistakes to learn also. Nor are the cooks perfect, but I think and know they are doing a fine job of producing a variety of meals so promptly each school day. When the students are absent from the kitchen the production staff takes over to prepare and serve the meals. In addition, we have an extra production staff entirely for the evening preparation and serving of the meals.

A few comments as regards to the cafeteria are: In 1963 when we opened we had just a handful of students, approximately 20, and a small staff of approximately nine employees plus four instructors. Today we have 48 non-instructional staff plus 17 instructors along with from 87 to approximately 110 students. We are serving approximately 1,000 full course dinners at noon, along with 1,000 to 1,100 hamburgers and approximately 450 assorted sandwiches. A typical meal consists of approximately 400 lbs. potatoes, 400 lbs. vegetables and say 700 to 1000 servings of meat along with sixty to eighty gallons of gravy.

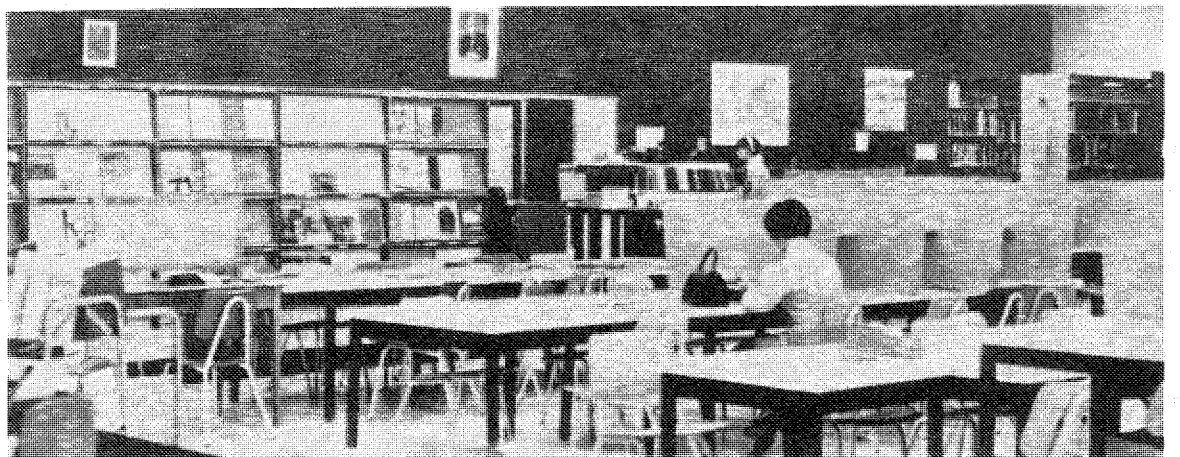
There is also a bakery sales outlet at 4:30 p.m. daily in the servery. Most bakery goods produced by our bakery are sold to the students and staff at "break even" prices. Custom cutting is also being done by students in the meat room, learning the trade of cutting meat. We operate a waiter-waitress course in the staff dining room, known as the blue room. The food there is prepared by the advanced or second or third year students in a separate lab room and served by students learning the trade of being a waiter or waitress.

I trust, after reading the above, all students will have a better understanding of the functions in connection with the food service department here at NAIT. If you have any questions or there is still any problem feel free to approach Mr. Carscadden and he will, I am sure, endeavor to assist you.



STUDENT DINNING FACILITIES

## McNally Library



STUDENTS HARD AT WORK IN McNALLY LIBRARY

"Never were these libraries more important than in this era of the information and population explosion, and the urgent need to use the first for the benefit of the second." This and other following excerpts were quoted from the book, "Meet the Future, People and Ideas in the Libraries of Today and Tomorrow", by Edith Patterson Meyer. "Mountains of printed matter pour without pause from presses all over the world. Facts and theories, ideas for the future and accomplishments of the past in books and documents, records, and reports, pamphlets and periodicals. Too much! Too Much! librarians sigh, though they know very well there never can be too much knowledge in this complex world."

"Information is snowballing!" shouts an IBM ad, and what an understatement! The amount of printed matter in the world doubled in the first half of the twentieth century, doubled again between 1950 and 1960, and yet again before 1965. Every minute some two thousand pages of informational material are published in continuously, twenty-four hours a day; he would still fall behind by more than a billion pages a year. No wonder we hear so much about an 'information explosion.'"

"The information explosion is more acute in the science-technology field than in any other area of human knowledge. About sixty million pages of technological literature are produced every year—enough; it is said, to fill seven sets of the Encyclopedia Britannica each day and two miles of bookshelves each year. What is more, things change so fast that what is accepted as final and true today may be labelled obsolete or false tomorrow."

Our McNally Library has gathered some of this information in the form of about 35,000 books and pamphlets and 400 periodicals

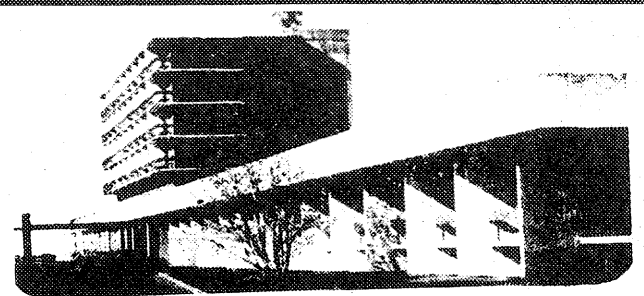
They include information for Reference, Research and Relaxation, i.e., from the serious technical and factual books to the odd paper-back thrillers. The highly trained technician must not only be well trained but also know how to keep informed about changes in his field.

Our central location is ideal, for it is close to other services such as the administrative and general offices, the book store, and the cafeteria. In general layout, there is a functional design, for after looking at the catalogue or asking for information, the searcher may go direct to the open stacks, make his or her personal selections, or just browse. Including the individual

study carrels, and counting the lounge chairs, the seating capacity is about 260. We too have had a population explosion for when the library was opened in 1963, there was about 1,500 monthly attenders, now there is an average of 15-20,000; with a monthly circulation increase from 1,000 to over 4,000.

To accommodate the needs of rising student attendance and service demands, we have increased our staff and have extended our opening hours to include evenings and weekend afternoons.

We, the staff, welcome you to McNally Library where we will be pleased to assist and direct you as you progress through your years at NAIT.



Why do 80 percent of our guests

always come back?

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# Extension Division

## Extension Division NAIT Meets The Challenge Of The Seventies

Today the impact of education is being felt throughout our Canadian society as indicated by school population figures released recently. By the end of next year almost thirty percent of our population will be attending schools of one type or another. During the time interval from the early part of the last decade to the end of the present year the number of elementary school students will have doubled, the number of secondary students tripled, and university students will number four times that of the attendance in the early fifties. It has been estimated by 1971 there will be approximately 600,000 students attending post second schools, and of this number, 200,000 students will be attending schools of the post-secondary non-university type. This last figure is of the utmost significance as it relates the fact to us of the tremendous growth in the number of adults attending vocational and community colleges.

The Extension Division of this institute has kept pace with this growth. This division has grown from 23 courses and 683 students in 1964 to over 300 courses and an estimated 7,000 registrants in the 1969-70 academic school year.

Credit courses and programs are offered in the fields of Architecture, Biological Science, Business, Chemistry, Civil Technology, Construction, Drafting, Electronics, English, Gas Technology, Industrial Practices, Instrumentation, Materials, Mathematics, Physics, Radio and T.V. Arts, Social Services, Surveying, and Telecommunications.

Non-credit courses and programs are offered in the fields of: Air Conditioning and Refrigeration, Art, Automotive Diesels, Business, Chemistry, Construction, Electrical, Electronics, English, Food Services, Foremanship and Supervisory Training, Industrial Practices, Mathematics, Medical Sciences, Photography, Piping Trades, Plastics, Power Engineering, Radio and T.V. Arts, Sewing, Sheet Metal, Telecommunications, and Welding.

One correspondence course, Gas Processing Plant operations, is offered by this division at the present time.

In addition to the regular evening courses the Extension Division is also charged with the responsibility of all adult training in Saturday, summer school, seminar, symposium, work shops, and other types of training outside of the regular day curriculum.

The main objective of this division is to provide technical training for adults; adults who for various reasons did not complete a formal education; adults who wish to continue with their education on

a part time basis; and also to work in close co-operation with other educational bodies so as to provide maximum training opportunities for those adults.

Another objective is to organize and promote courses composed of groups of subjects leading to a certificate having in mind the standards required by industry in the development of standards of proficiency.

The Extension Division will organize and promote courses other than full time regular day courses, inclusive of correspondence if the need is established, in the following general areas:

To assist those already engaged in a trade or occupation by providing them with instruction in the technical and theoretical aspects of their work and to bring such students up to date with the latest information and practices in their own areas.

To provide sufficient basic instruction to those who wish to change to a new occupation or prepare for such a change.

To work in close co-operation with professional bodies i.e. the Association of Professional Engineers and the Society of Engineering Technologists, in the organization and promotion of training required by the professional bodies.

To develop and provide a method by which adults may progress through the various technical categories and acquire a technical diploma of equal stature with the day diploma.

To develop a full scale Summer School program.

To provide short, intensive, full time courses for specific purposes as may be required by industry.

To provide pre-employment training for persons over the compulsory school attendance age who have left elementary or secondary school and who require such training to develop or increase occupational competence or skills.

To assist those who seek occupational advancement.

To provide courses for those who wish to improve their use of leisure time when space and facilities are available.

To organize and promote any other courses for which there is a demand from industry, labor or the general public, where advisable and in accordance with the general policy of the institute.

In the fast changing world of the present, great emphasis is being placed on continuing education. A person cannot be content with the amount of knowledge he or she had originally acquired. It is now no longer a matter of one going back to school but on continuing to learn!

The Extension Division of this institute welcomes you to take advantage of the facilities and opportunities offered by this division

# Student Health Services

Student Health Service  
Northern Alberta Institute of Technology  
Edmonton Alberta  
Phone 479-8471 Ext. 322, Ext. 323  
Student Health Services Hours  
Open Daily Monday through  
Thursday - 8:00 a.m. to 10:00 p.m.  
Friday - 8:00 a.m. to 4:30 p.m.  
Emergencies -  
i. NAIT Switchboard  
0-Black Phone  
ii. Internal  
263-Grey Phone

The Student Health Service provided all students with a varied programme of health care and supervision. The funds necessary for the maintenance of the programme are provided through an annual budget from the Department of Education and administered by the Northern Alberta Institute of Technology.

There is no doctor attached to the Student Health Service. however, students who require medi-

cal attention will be seen by the nurses and referred to a family physician of their choice. Students are urged to report to Health Service in the event of illness or injury. Frequently there is no need for more than nursing services. Students receive care and attention for minor ailments and injuries by reporting to the Health Service Office at the hours specified at the beginning of this information summary.

If a student taken ill or becomes disabled by accident in the normal course of his activities during the NAIT school term a telephone call to the Health Service will help to determine whether treatment at the Health Service Office T-110 or at the private Physician's Office or Hospital Emergency Department is indicated. Transportation by ambulance or taxi is provided when necessary in the event of injury while on Institute property.

Other transportation costs in the event of sickness are the financial responsibility of the student. Immunization and Vaccination Procedures

Students in the following courses are encouraged to have their immunizations completed before they enter NAIT.

1. Medical Laboratory Technicians
2. Radiological Technicians
3. Dental Assistants
4. Dietary Service Technicians
5. Medical Records Librarians
6. Commercial Cooks
7. Commercial Bakers
8. Inhalation Therapists
9. Host-Hostesses
10. Food Processing Technicians
11. Meat Cutting Technicians
12. Dental Laboratory Technicians
13. Medical Typists

These immunizations and vaccination procedures are available free of charge at any city or local health unit.

Those whose immunization is not complete, at time of registration, and other students as the situation demands, may be immunized by appointment.

Other Services Provided

1. Audiometric screening for hearing loss.
2. Visual acuity screening.

The Following are Required to be Presented at Time of Registration

1. Certificate of Tuberculosis Tests

It is a condition of registration that each registering student produce, at the time of registration, a valid document certifying that a recent T.B. skin test has been taken and read and that if positive a recent chest x-ray has been carried out.

2. Medical Certificates

Students who register in any of the above mentioned courses are required to provide, at time of registration, a completed Medical Certificate along with the certification of completed tuberculosis tests.

3. Medical Questionnaire Required

Each registering student is expected to complete a Medical Questionnaire and produce it at the time of registration.

All students who require assistance with their health and welfare problems are encouraged to come to Health Services.

# Student Stores



Student stores operating out of E126 is the store for the students, operated by the students. Some of the services we provide are: 1. selling books to you (on consignment). 2. ordering technology jackets, sweatshirts, crests and other technology items. 3. supply all types of gym equipment. 4. ordering rings, ties, socks, and other jewelry as a souvenir of your years at NAIT.

BATTERY BOOSTS FOR \$1. are a few of the many services we provide. Student stores is also a representative of the 10% Savers Club that you hear so much about around town. This card is available for \$9 and can be used to purchase merchandise for 10% cash discount in over 200 stores in Edmonton.

Who operates these fantastic stores? The Business Administration Society. The students enrolled in Business Administration and Secretarial give up their spare time to help students throughout the Institute. The manager of the bookstore is a student of Business Administration who wants to enter the management field in two years. The staff are students of B.A. and Secretarial not necessarily going into the management line, but who will enter the business world in a short time. B.A.S. has just lately set up a points system in which students helping in the store obtain credits towards graduation and graduation rings. This is a short insight into what student stores can do for you.

Sure . . . I got 'em all at . . . (Discount to NAIT students)

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# Air Conditioning And Refrigeration

What is air? The dictionary defines air as "a mixture of invisible, odorless, tasteless, and compressible gases".

It is not a physical thing that one can see or touch, however when one enters a space the lack of fresh air and the presence of stale air is noticed at once. Fresh clean air is becoming scarce as time progresses. Therefore, air control must be emphasized to a greater extent if air pollution is to be controlled. Air pollution has advanced to such an extent that it is now a national problem.

The main object of air control is to satisfy the general public; that is comfort air conditioning. The public is now demanding more comfort in cars, homes, and all public places.

Architectural designs are changing from wood and brick structures to glass and synthetic structures. The modern trend toward larger glass areas in buildings bring about ever-changing conditions which the air conditioning technologist has to cope with. The above conditions are due to variations in the sun cap, wind directions, wind velocity, and the changing outside temperature. These changes require a more sophisticated sys-

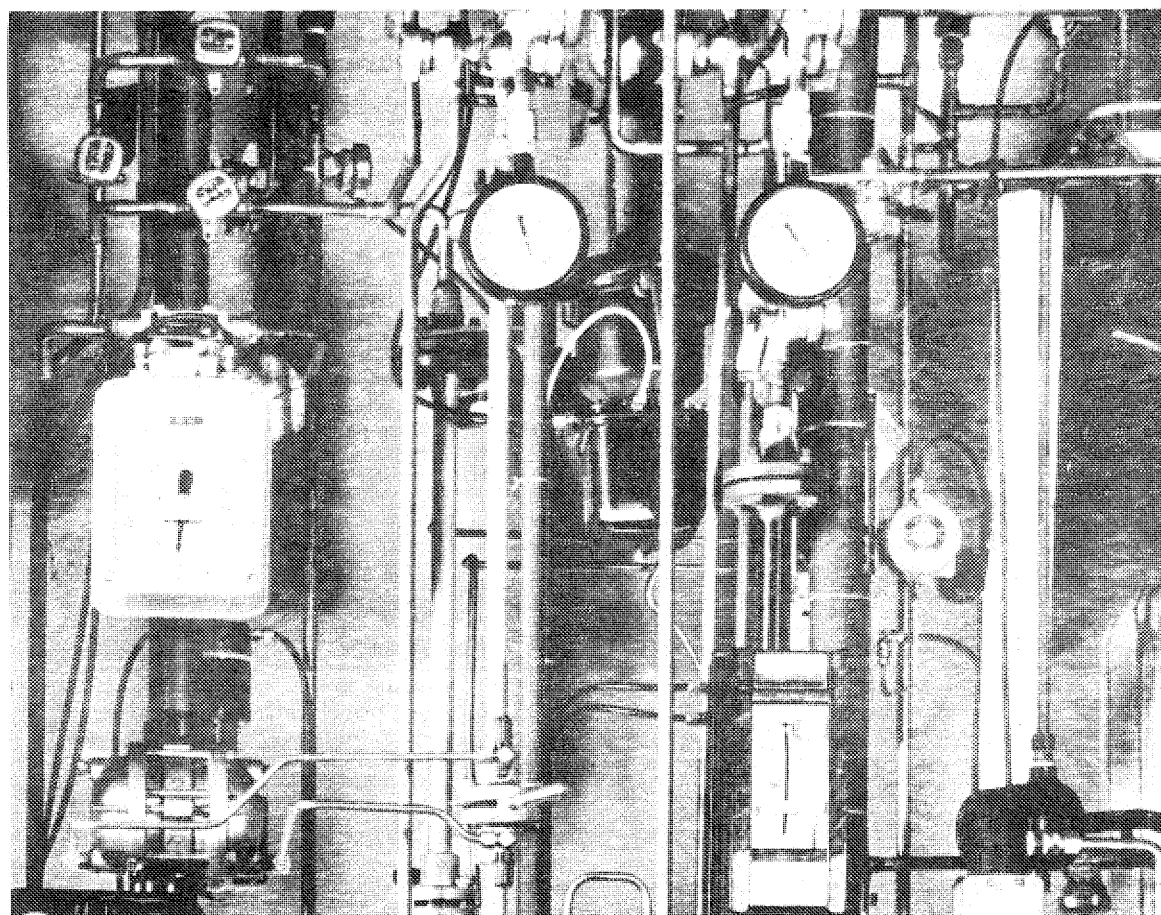
tem design. This presents a greater challenge to the air conditioning technologists.

Air conditioning, refrigeration, and heating systems have been adapted towards greater refinement to meet the varied conditions.

The benefits from comfort air conditioning are immense. Imagine working on a project in a hot humid room where there is no comfort control. The heat and high humidity in the ambient air would discourage efficient work. The benefits in productivity and efficiency of the employee in an office or factory far outweigh the cost of climatic control installations.

Graduates of this technology find positions in such areas as consulting firms, contractors, mechanical equipment manufacturers and distributors, engineering sales firms, government agencies, wholesalers, and maintenance or service companies. Technologists' work includes design projects, drafting and layout testing of installations, and sales and services.

The students' assignments include instruction in the above with emphasis on design and maintenance of existing systems. New and improved products are in-



roduced as to their application in present and future systems.

The two year program provides the future technician with a sound background in electricity, refrigeration and air conditioning the-ditioning lab, and engineering drawing. Related courses include physics, mathematics, and technical English. Supplementary subjects include: sanitary services, welding, machine shop, sheet metal, thermodynamics, and computer programming. These subjects tend to give the

student a wider insight into the vastly expanding field of air conditioning and refrigeration.

Through the use of a well equipped lab the student requires practical technical knowledge to help him solve common air condition and refrigeration problems. A specially designed air conditioning test unit may be set to simulate many varied conditions encountered in actual systems. Small training units aid the student in system analysis, and also permit individual or group pro-

jects. Many of the controls which may be encountered in the field are available for observation and setting up of sample control systems.

Employment opportunities are unlimited and varied. Advancement in this field is only limited to the individuals initiative.

The prerequisites and requirements may be obtained from the general office. Prospective students are encouraged to apply early since a set number of students are accepted each year.

## NAIT OPEN HOUSE DANCE MARCH 20

8:30-12:00

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\$1.50 PER PERSON

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# Adult Pre Technology

The name, Adult Pre Technology, defines a course that adults can take at the Northern Alberta Institute of Technology so as to meet the requirements to enter a technology of their choice next year. This course will enable the adults to better themselves so they can get a more profitable job and a better standard of living in the future. These and many other students have left school mainly because they were finding it hard to make their grades. So this is why the adults have come to NAIT to try and better themselves through the instruction of the instructors. The courses offered are:

## I. Orientation

The objective of the Orientation course is to give the adults more information on the technology in which they may be interested in going into after they graduate from Adult Pre Technology.

## II Mathematics

This course is designed to help the adults to understand the real meaning of algebraic numbers and the understanding of different ways problems may be solved.

### The Adult

- studies Arithmetic to Algebraic which consists of Monomials, Polynomials, Special Products and Factoring of Algebraic equations.

- takes approximation of numbers and scientific notations.

- learns about the slide rule, basic geometry of polygons, circles and trigonometry of functions of acute angles.

- studies practical applications of vectors, oblique triangles and graphs of Linear equations.

- studies practical applications of vectors, oblique triangles and logarithms.

In the last quarter the adults solves equations with one unknown and two unknowns. They also take quadratics, formulas variation, oblique triangles, logarithms, slide rule solutions, trigonometric functions and graphs of trigonometric functions.

## III. Chemistry

There are three types of Chemistry:

Chem. 101 introduces the fundamental concepts of Chemistry, the nature and states of matter, the elements and the atomic theory the behavior of gases and the gas laws, and the kinetic theory of matter. It disciplines the mind and the self for learning processes.

Chem 201 develops more fundamental concepts and study of the principles.

- continues discipline of the mind and the self for learning situations and develops relationship between Chemistry and other vocational areas.

Chem. 301 not only develops the fundamental concepts and principles but applies to more directly, previously learned concepts.

This course has a total of 194 hrs.; which consists of 134 hours of lectures and 60 hours of lab. for a total of 9 months, the period of the course.

## IV. Physics

The objective of physics course

is to help the students to develop their ability to cope with the underlying principles which are offered in Physics.

- To encourage the student to think to some problems to critical degree, independently.

- To help overcome any psychological barriers that they may have in facing organized thought

processes and problem solving.

This subject is a total of seventy-two hours and consists of four hours of lecture and two hours of Lab. This enables the adult to solve the problem he is faced with.

### V. English

The objective of this course is to help the students increase their interest and to gain a great-

er skill in reading, listening and understanding literature. It will help to develop their appreciation and understanding of the contemporary society through an exposure to the thought and feeling of mankind as told in literature and other related areas. It is designed to help express their ideas more clearly, accurately and effectively in public speaking and in

writing.

This course lasts from thirty-six to forty-eight hours per quarter, depending upon the technology or quarter.

When the students have successfully completed all of these courses they are given the Adult Pre Technology certificate which enables them to enter the technology of their choice.

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# Banking And Finance

The Administration Of Banking  
"And Jesus went into the Temple of God, and cast out all of them that sold and bought in the Temple, and overthrew the tables of money-changers, and said unto them. It is written that my house shall be called the House of Prayer, but ye have made it a den of thieves".

St. Matthew Chapter 21.

The Lord was perfectly right. Why did they have to choose a place like that?

This goes to show you how desperate they were in those days to B-A-N-K.

William Rogers uttered the phrase, that "Since the beginning of time there has been three great inventions: Fire, the Wheel and Banking."

Banks are the life-blood of a country's commerce. Very few of the gigantic projects that are shaping the world's destiny could be started without the services that banks provide. They have households, individual business and government and so creating this life-blood.

No matter what occupation you are involved in, if you have forsake, deposit your money in the bank.

Until the invention of the steam engine, which made it possible for the building of big factories in the seventeenth and eighteenth centuries, a average person wasn't much interested in Banking. As the cities and towns grew longer, there sprang up big banks to meet the needs of the people. As banks continue to grow, there will be more towns and as towns continue to grow there will be more banks.

The financial businesses, have a history as old as civilization (a promissory-note tablet was found in Arabian desert in the year 2000 B.C.) and functions as young as the scientific age of today.

This technicalities of this fascinating field is practiced right here at NAIT, on the 4th floor (Banking Lab) of the Tower Building.

The course, Banking Administration is divided into two programs. Banking Management-First Year (two year)

The first year of the program is a study of the business theory and will provide the student with the necessary background for further specialization in the second year. It also allows the student, a position to pursue a career in any part of the business world. Some of the subjects pursued in the first year, include Business Law, Economics and Accounting.

## Second Year

Emphasis is placed on Banking and financial procedures. These are learnt through the operation of the stimulated banking office. Some of the subjects include Investments, Money and Banking, Financial Marketing and Digital Computer Application. This is complemented by a series of

field-trips, seminars and guest lectures.

The objective of Banking Administration is to prepare the student to meet the present day requirements, provide a basis for coping with future developments, and to equip the student with necessary skills to meet this challenge.

If you like:

- opportunity for advancement
- competitive salary
- a challenging career
- dealing with business and industry
- marketing financial services
- managing financial offices

Then Banking Administration is your field.

Personal Requirement:

- willingness to accept responsibility
- ability to work quickly and accurately
- to get along with people
- to give pleasant and courteous service.
- honesty, dependability and good personal habits.

Essential Qualifications:

- an aptitude for business
- ambition to progress rapidly to management levels of Banking and Finance.

There are many interesting jobs for young people of both sexes in the bank today. Good fellowship and good social activities help to make Banking a rewarding life.

Your money is your most personal and precious commodity.

We are very interested in and concerned about the people with whom we deal with and they should be concerned about us.

Teller Training And General Business Administration

Teller Training and General Business Administration is part of the whole Banking program at NAIT. It is designed to teach a young lady the aspects of being an efficient teller and give her an outlook on the business world. It does not restrict her to one position but enables her to operate a number of office machines and carry out procedures of doing business with the general public.

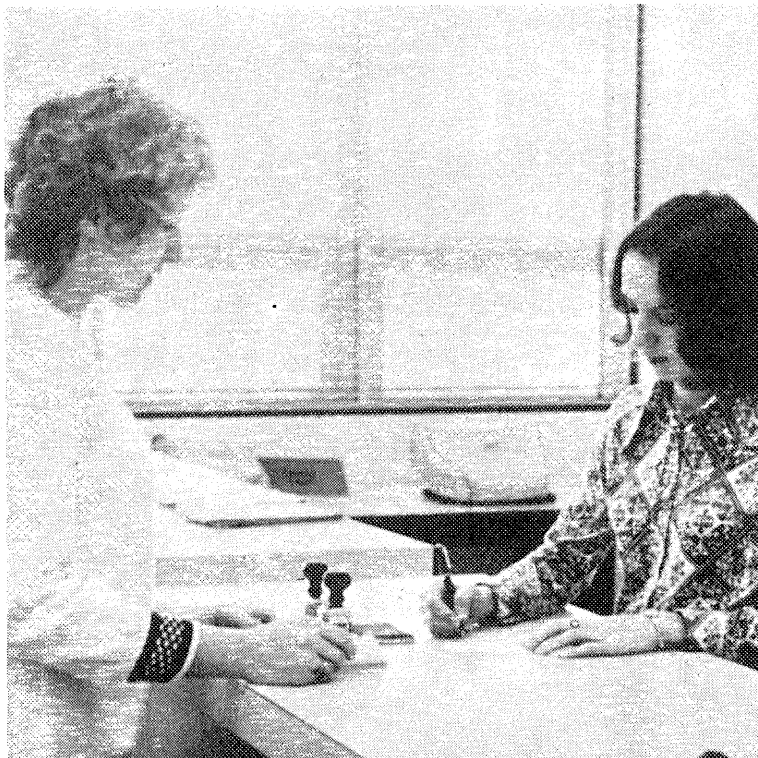
From the business subjects she is taught, the teller will not only know the operation of the business, but she will understand why she is doing it.

Accounting introduces the basic principles of preparation of books and financial statements.

Business Mathematics increases the students knowledge and skill in the solution of business problems.

Business Communications is designed to upgrade students effectiveness in oral and written communication.

Personal Finance, Psychology, and Sociology teaches the student the importance of individual relationship involved in making business decisions with regard to personal and public incomes. Typewriting and Banking Machines involves the learning, op-



## BANKING'S FUN BANK

eration and increase of speed and accuracy on machines in preparation of financial reports and processing of business transactions. Teller-Training is designed to give training and practice provided with emphasis on these areas; integrity, tact, accuracy, security, the bank's services, deposits, cheques, cash, debts and credits, corrections in posting, balancing, and co-operating with staff.

This one year program lasts from September to May. It not only gives the young woman more confidence in the working field, but it has become a solid backing in search for employment.

We are inviting you to come and see our "Open House" display. We are keenly interested, very anxious to tell you about it and we know that you will enjoy it.

Our displays will be exhibited in three rooms, (T.413, 415, 409)

Our main idea is to project the technical knowledge of "Banking of today and tomorrow".

In room T415, a Modern Manager's office will be displayed, depicting the more complex multi-room, with a very conducive business-like atmosphere.

In room T413, the operations of Banking procedures will be seen. To mention a few-paying money, writing cheques and posting them. The course outline of the Banking Administration (Management Year 1 & 2, and Teller Training) will be exposed along with the Teller operations. All information about Banking and its course can be obtained in this room.

Lastly, in room T409, in keeping with the technical advancement of the scientific age, emphasis through various computers will be demonstrated.

So lend us a little time and

come out and see us in action as we would like to see you too.

Banking offers you many benefits, some of which are a good pension fund, an excellent group life, sickness and accident plan and ideal working conditions. Think of your future, for that is where you will be!

Prepare yourself now for the future (in case of accidents and unemployment) by equipping yourself now! Remember this phrase "A customer who has himself for a banker, is nonetheless a food". .....Banking students.

Mr. Cox is always willing to give you information about Banking as a career, Room T403B, Grey Phone 6024.



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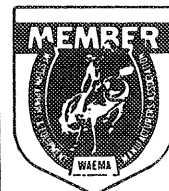
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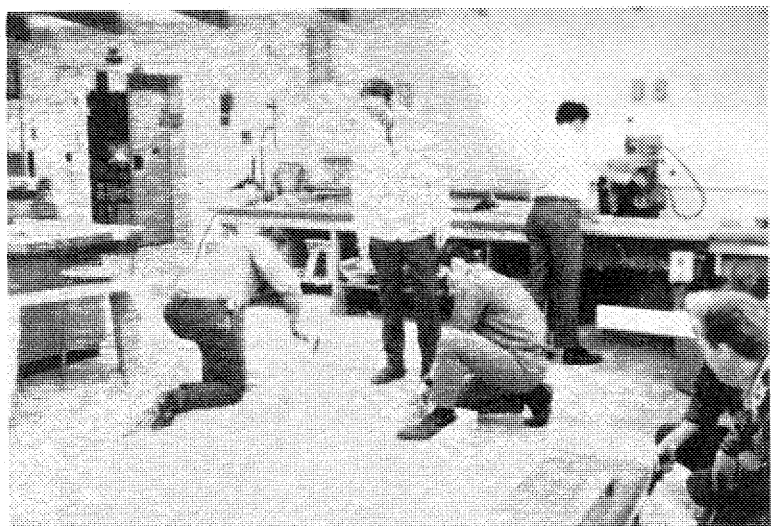


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## Building Construction



The construction industry is the biggest business in North America. Together with indirectly generated jobs, it accounts for almost employment. Because of its complex and specialized nature, a trained supervisor is needed to co-ordinate and direct the many facets of construction. The training of the superintendent is as important to the industry as that of any specialist. The effective working force and the management, and the quality of control over the project are dependent upon a complete technological training program. The Building Construction Technology at NAIT offers this program, and includes such courses as Mathematics, Statics, Time Lapse Analysis, Materials, Methods, Masonry, Carpentry, Air Conditioning, Electricity, Communications, Design, Drafting and Surveying. The two year program includes both theoretical and practical work to make the student familiar with the policies, procedures and practices involved in each phase of construction. The graduate is eligible for the positions of Inspec-

tor, Estimator or Accessor where he will gain experience and confidence in preparation for the responsibility as an Assistant Superintendent, or Superintendent, depending on his ability. As a technologist of tomorrow, he will participate in developing our fast-changing environment and will work to make the student familiar with the policies, procedures and practices involved in each phase of construction. The theme of the 1971 Canadian Construction Association Convention - "Challenge of Change Ahead" - indicates the coming adventure for the technologist approaching the era of the 21st. Century.

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## Biological Sciences

This program has been developed in co-operation with the Advisory Committee to help fill the increasing national demand for suitably qualified Biological Sciences Technologists. The need for trained technicians in the life sciences (biology, health and environment) 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 on the preservation of wild life species, botanical and zoological; health sciences dealing with diseases of both man and animals; and concern over the increasing expenditures of public and private monies. Authorities have estimated that present needs exceed 30 per cent on a national basis and there is no doubt that the need will continue to increase.

Emphasis is placed on theoretical and practical instruction in a broad variety of biological processes common to both Botanical and Zoological sciences. Laboratory activities will include: animal care; plant growth; bacteriology; analytical analysis of biological material; the instrumentation, recording and analysis of physiological data; preparation of plant and animal material for microscopic examination; and environmental health

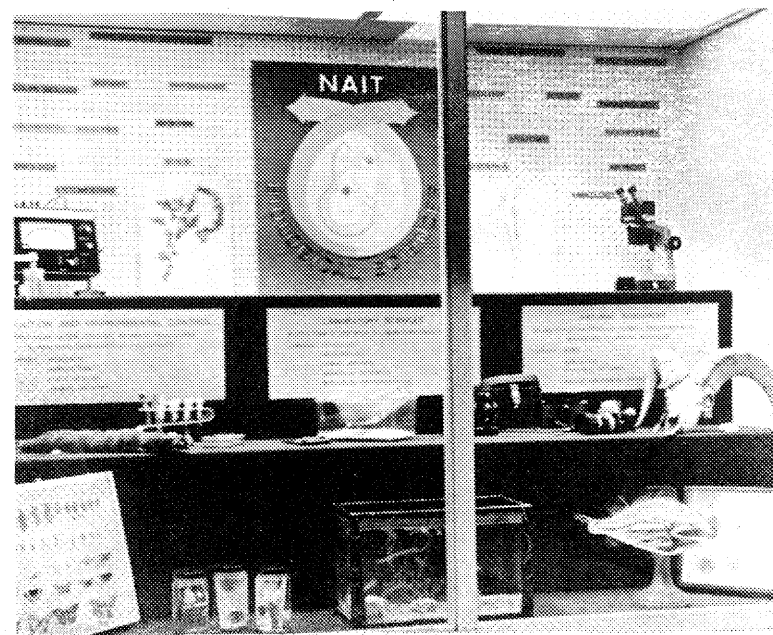
laboratory procedures. Technicians are also required for field work involving: the collection and analysis of air and water samples, surveys of plant and animal populations, ecology studies, related activities.

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

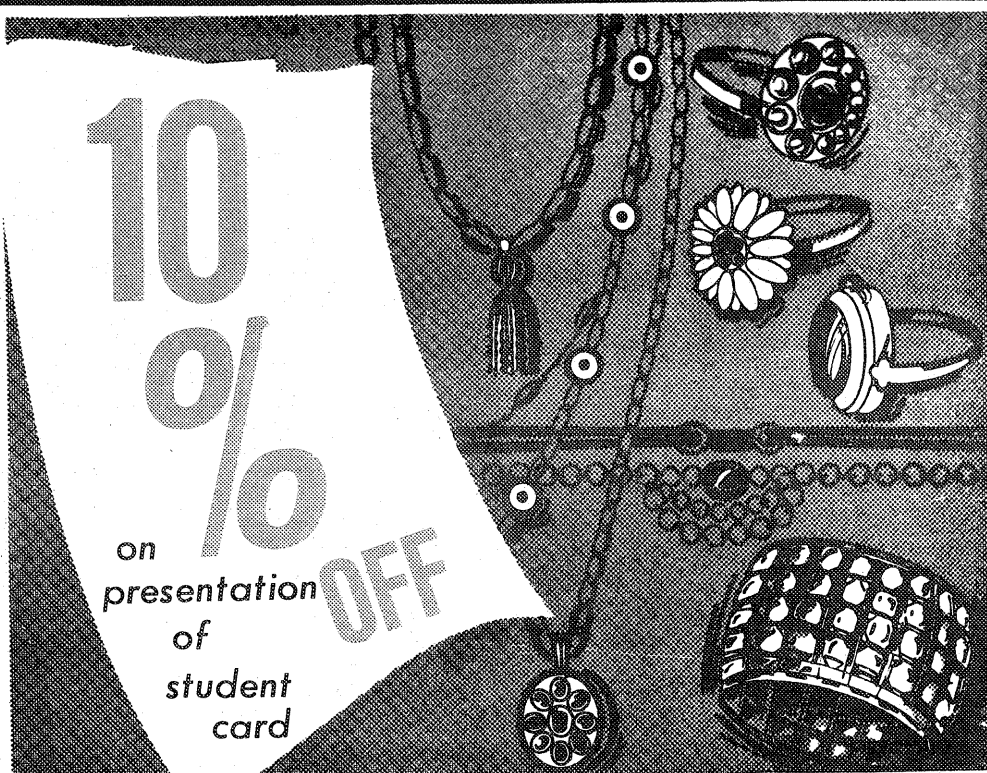
Industry; Biological Supply Houses, and many other areas.

Individuals considering a career in Biological Technology should have a good background in biology and chemistry. An interest in working with living material and the aptitude for attention to details are considered desirable. Direct contact with laboratories or agencies involved in the activities of major interest to the student may be of value in determining the type of work involved. The course will demand a considerable amount of work by the student.

The cost of books and other supplies should not exceed \$100.00 per year. Attendance on occasional field trips will be required.



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# Business Administration

What is business administration? A broad definition could be the planning, staffing, organizing, and controlling of an enterprise or department in order to obtain the desired objectives of the owners in the most efficient manner possible.

Business Administration is the broadest field of employment in our 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.

The Business Administration program was instituted to satisfy the commercial demand for career orientated young men and women with specific administrative abilities; and the quality of the course is evidenced by the growing number of employers who are approaching the graduates to fulfill their Company's needs for future management.

First year students study material designed to give them a general background in business practise and theory. A common first year program provides a student with a basic understanding of economics, accounting, financial mathematics, marketing, business law, communications, organizational behavior and management concepts. On successful completion of a specialized second year in one of the following options the student receives an Applied Arts Diploma in Business Administration.

- a) Accounting
- b) Business Management
- c) Financial Administration
- d) Banking Administration

**ACCOUNTING**  
Graduates of the Accounting Option have found rewarding careers as accountants, auditors, cost analysts, controllers and in other closely related fields. Those who achieved high averages and wish to continue with their studies may receive credit in special courses toward R.I.A. and C.G.A. certifications.

**SPECIALIZED COURSES**  
Intermediate Accounting  
Cost Accounting  
Accounting - Seminar  
Payroll Accounting  
Business Statistics  
Computer Principles  
Consumer Credit  
Personnel Supervision  
Materials Management  
Income Tax

## Business Finance Auditing

The emphasis of this option is to produce graduates who can become branch administrators without having to go through a lengthy on-the-job-training program.

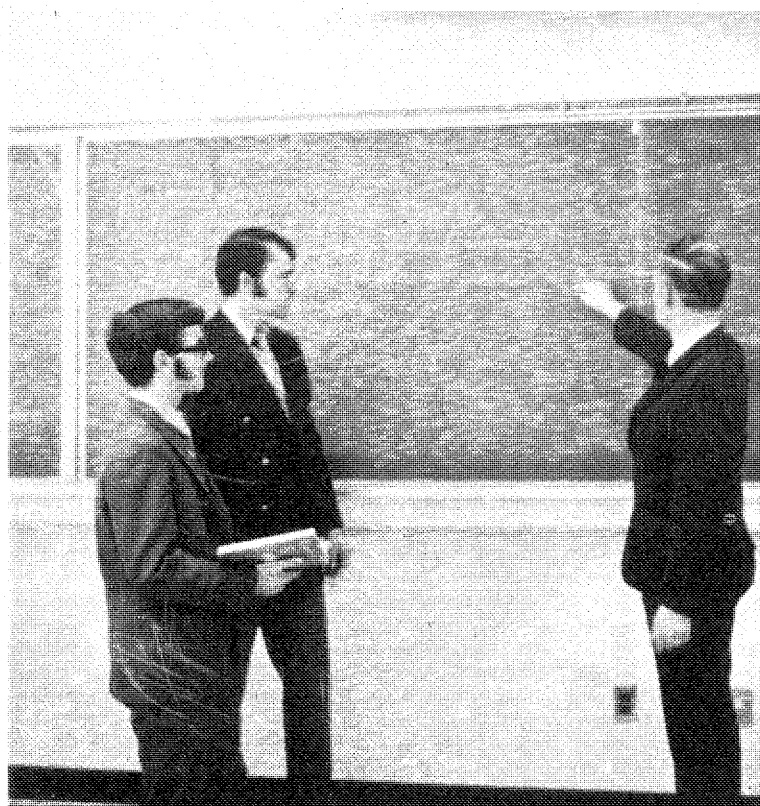
Graduates find challenging career opportunities in such areas as financial marketing, loaning and personnel with banks, trust companies and credit union.

**SPECIALIZED COURSES**  
Administrative Accounting  
Digital Computer Applications  
Institutional Marketing  
Investment  
Money and Banking  
Banking Procedures  
Personnel Supervisions  
Digital Computer Principles  
International Marketing  
Business Statistics  
Banking Seminar  
Income Tax  
Administrative Procedures  
Real Estate Administration  
Finance Marketing  
**BUSINESS MANAGEMENT**

Task oriented training in the management of organizations giving consideration to the behavioral problems, quantitative aspects and to the external environment are emphasized in this program. Practical approaches and real life business applications are studied.

After short periods of orientation graduates from this option find supervisory and administrative positions at junior management levels with Industry, Commerce, and Government.

**SPECIALIZED COURSES**  
Administrative Accounting  
Digital Computers  
Business Management  
Inventory Control  
Marketing  
Personnel Supervision



BRIAN AND DON GETTING MUCH NEEDED

Quantative Analysis  
Marketing Management  
Income Tax  
Consumer Credit  
Business Finance  
Managerial Economics  
**FINANCIAL ADMINISTRATION**

This option provides sound training in the principles, practices and decision-making areas of financial resource control, capital market and financial in-

stitutions  
Employment opportunities exist in finance, loan and credit departments of finance companies, banks, investment houses, insurance firms, savings institutions, governments, and other related fields.

**SPECIALIZED COURSES**  
Administrative Accounting  
Digital Computers  
Business Management

Credit Law  
Marketing  
Real Estate Administration  
Money and Banking  
Business Statistics  
Investments  
Business Finance  
Income Tax  
Personnel Supervision  
Credit Administration

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 perseverance is required to graduate.

Articulation arrangements now exist with the University of Alberta, Edmonton and the Notre Dame University, Nelson, B.C., which permit NAIT Business graduates to further their academic training. For more details contact Mr. K. Paul, in T0400D.

The Business Administration students are members of the largest Technology and have the most dominating society at NAIT. Their Society attempts to promote the social and cultural interests of the group offering more benefits to members than any other Society.

Our Open House display is located on the second floor of the Tower Building. "Business is Great".



## EMPLOYERS



GRADUATES AND UNDER-GRADUATES ARE AVAILABLE FOR EMPLOYMENT FROM THE FOLLOWING TECHNOLOGIES:

### A. TECHNOLOGY DIVISION

- |                        |                                    |
|------------------------|------------------------------------|
| 1. ARCHITECTURAL       | 10. GAS                            |
| 2. BIOLOGICAL SCIENCES | 11. INSTRUMENTATION                |
| 3. CHEMICAL            | 12. MATERIALS TESTING & METALLURGY |
| 4. CIVIL               | 13. PHOTOGRAPHIC                   |
| 5. DENTAL LABORATORY   | 14. RADIO & T.V. ARTS              |
| 6. DRAFTING            | 15. RADIO & T.V. TECHNICIAN        |
| 7. ELECTRONIC          | 16. SOCIAL SERVICES                |
| 8. EXPLORATION         | 17. SURVEY                         |
| 9. FOOD                | 18. PLASTICS                       |

### B. INDUSTRIAL DIVISION

- |                                     |                          |
|-------------------------------------|--------------------------|
| 1. AIR CONDITIONING & REFRIGERATION | 4. FORESTRY              |
| 2. BUILDING CONSTRUCTION            | 5. HEAVY DUTY EQUIPMENT  |
| 3. ELECTRICAL                       | 6. INDUSTRIAL PRODUCTION |
|                                     | 7. TELECOMMUNICATIONS    |

### C. BUSINESS & VOCATIONAL DIVISION

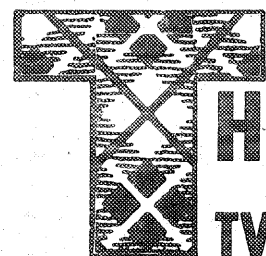
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|-----------------------------------|-----------------------------|
| 1. BANKING & FINANCIAL MANAGEMENT | 5. COMPUTER SYSTEMS         |
| 2. BUSINESS ADMINISTRATION        | 6. MARKETING ADMINISTRATION |
| 3. COMMERCIAL BAKING              | 7. SECRETARIAL              |
| 4. COMMERCIAL COOKING             | 8. MEDICAL TYPISTS          |



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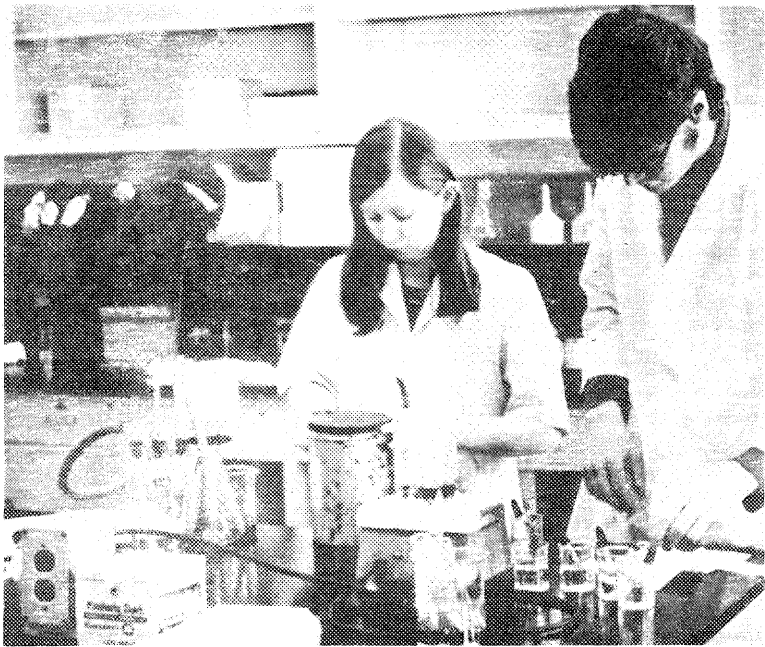
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# Chemical Technology



CHEMISTRY LAB ANALYSIS

A practical and challenging course is being offered by the Chemistry Department of NAIT. The rapid growth of the Chemical Industry in Alberta and Canada has increased the demand for competent Chemical Technicians. The requirements of Industry and Research must be filled and the Northern Alberta Institute of Technology has endeavored to do its part in providing programs which will give the students adequate training in the field of Chemical Technology. A great potential exists in the field of chemistry and students choosing this field will have picked an interesting and continually developing vocation.

A two year course is offered in Chemical Technology with a second year option (Chemical Research Technology) for honor students. Theory classes in inorganic, organic, oil chemistry, in-

strumentation and biochemistry are applied in the lab where the student performs experiments that illustrate the thoughts presented in the lectures. The practicality of this course is emphasized in the amount of time the student spends in the laboratory where he or she learns good laboratory technique and procedure. The first year course includes 12 lab hours and the second year course averages 20 lab hours out of a total week of about 30 hours. As a student Chemical Technician, one will learn to perform qualitative and quantitative analytical tests and determinations, to reproduce industrial procedures on a laboratory scale, to operate various analytical instruments and in general to get a good background of chemical knowledge.

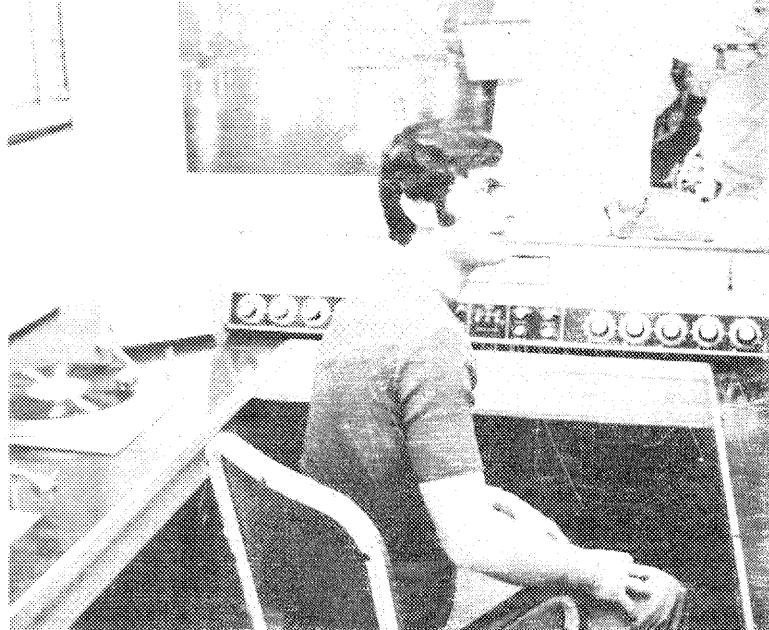
Industry has been very generous in providing scholarships

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 Professional Organization for Chemists and affiliates. Upon graduation, student members are eligible 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 are listed in the NAIT Calendar and any prospective students are encouraged to visit the Chemistry department and look over facilities over. In order to avoid disappointment, register early.

# CHNR Radio



CHNR'S CONTROL BOARD

One of the most progressive clubs at NAIT is the student owned and operated radio station, CHNR. Recently the station had professional broadcasting equipment installed, and since then it has been operating along the same lines as a professional radio station. Student disc-jockeys are on the air continually from 8:00 a.m. in the morning to 7:00 p.m. in the evening five days a week.

A teletype machine in the station news department supplies CHNR with up-to-the-minute news and sports coverage.

Although there is a majority of Radio-Television Arts students operating the station, any NAIT

student can become an announcer or disc-jockey simply by taking a CHNR broadcasting course which covers items such as speech and control board operation. Many other people are also needed to work as secretaries, record librarians, maintenance engineers, promotions directors, and in the continuity department.

Next year CHNR will be even bigger and better, and there will be an even greater selection of good music for the students enjoyment.

If you would like more information, the CHNR offices are in room E-129A. Why not come and see us - we're easy.

**For a career in Telecommunications**

**Edmonton telephones**

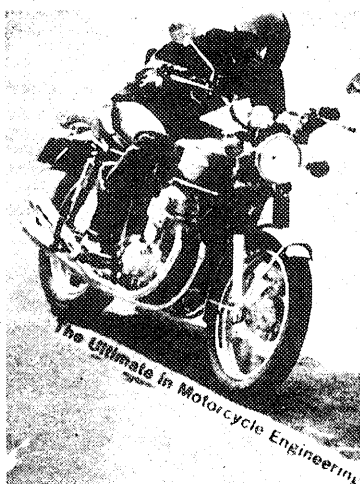
Our prime objective is to provide the citizens of Edmonton with unexcelled communications. To reach and maintain this objective we are staffed with employees of widely diverse talents and experience. We must continue our recruitment policy in this way.

To accommodate our present rate of expansion we require high-calibre, career-minded applicants to fill vacancies from which we ultimately obtain our management staff.

The prospect for advancement for a new employee in 'edmonton telephones' is limited only by his own personal productivity and by his ambition. This City Department is a typical area of unlimited career opportunities.

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# Civil Engineering Tech.

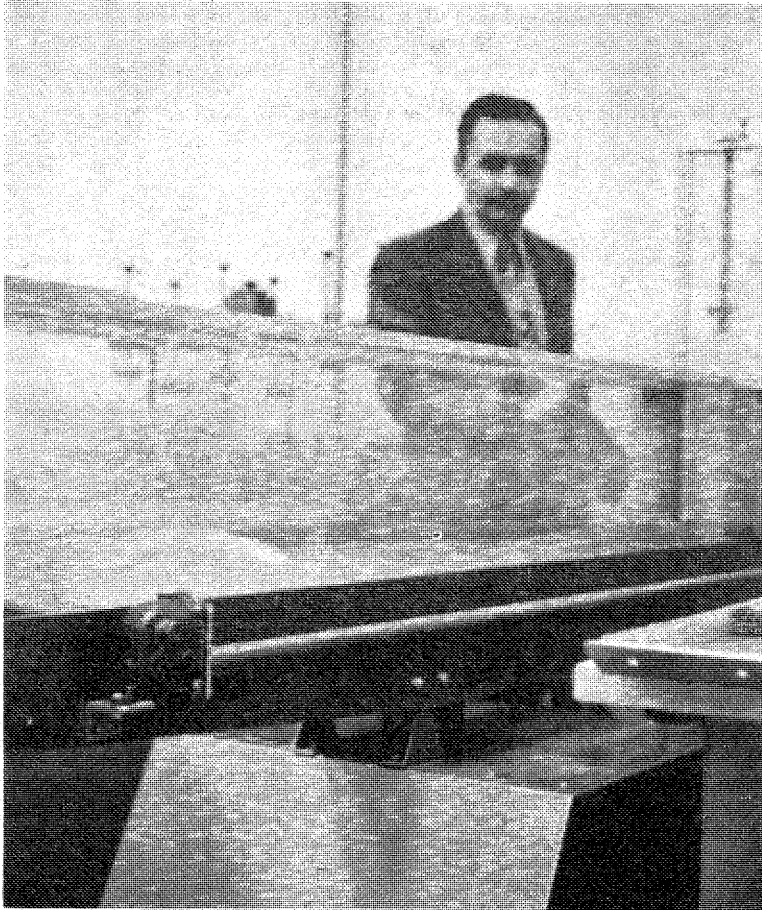
Civil Engineering Technology is a course in the training of semi-professional people: draftsmen, surveyors, estimators, designers and material inspectors to aid in the Civil Engineer.

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 inspection of roads, sewers, water mains, reservoirs, sewage disposal plants, water treatment plants, harbour installations and irrigation canals. The materials testing field includes the laboratory and field testing of soils, cements, concrete, asphalt and other materials used in construction. Another third of the graduates are employed by private contractors as estimators, draftsmen, surveyors, and job superintendents. The remaining third work for various governmental agencies as draftsmen, surveyors and inspectors.

Apart from the engineering fields mentioned before, there are graduates involved in technical sales, while still others are continuing their education at university level.

Salaries for graduates are comparable to those paid semi-professional people, and vary depending on the experience and personal capabilities of the employee.

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 dili-



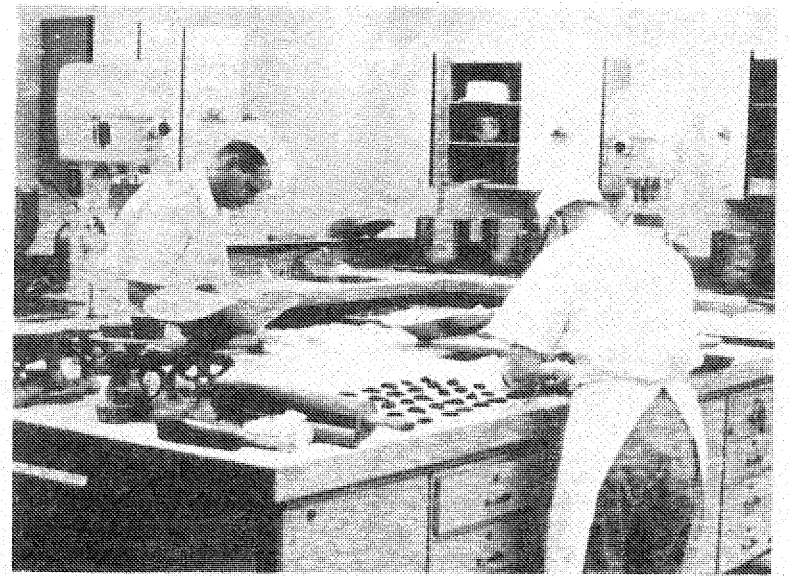
HYDRAULIC FLUME DEMONSTRATION  
THE HYDRAULIC JUMP

gence, but many graduates will succeed. Civil graduates are given basic knowledge required of job superintendents for private contractors: grads may start work as assistant to the superintendent and advance to the superintendent, field superintendent and construction manager. Advancement is on a merit basis, and so the individual dictates his rate of advancement as opportunities present themselves.

The Civil Technology course at NAIT is a two year program. Entrance requirements are a high school diploma with a 50% or better in Grade XII Mathematics 30, 32, 33, or 36 and 40% or better

in Grade XII Science, (Physics preferred). Applicants having credits in the 32 series in Drafting may be granted exemption for the equivalent subject. Additional data may be obtained from the office of the Registrar, NAIT.

# Commercial Baking



When you are at Open House --remember to visit the Bakery. You'll be greeted by that unmistakable aroma of oven-fresh baked goods. We are situated downstairs, just north of the main cafeteria.

The commercial Baking Course was established in 1968, with graduates now holding prominent positions in various baking establishments in and around the city.

The prime objective of the course is to graduate qualified and competent bakers having a sound background of practical, theoretical, and test baking, with related maths, science and business knowledge, enabling them to be employed in positions of responsibility in industry. Graduates also have the opportunity

to enter affiliated trades such as test baking laboratories or bakers supply houses (ingredients and equipment).

Within the past year the Bakers Club have been active in both business and social functions. During Open House, visitors are invited to see the bakery in operation as well as purchase the finished products. This bake sale being promoted and financed entirely by the club.

If you are considering a career in this field, the staff members of Commercial Baking would be pleased to discuss the program with you.

Touring a Technical Institute of this size can be a very exhausting experience so when you get tired and hungry REMEMBER THE BAKERY!

## CONGRATULATIONS TO THE STAFF AND STUDENTS OF NAIT



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## Food for thought...

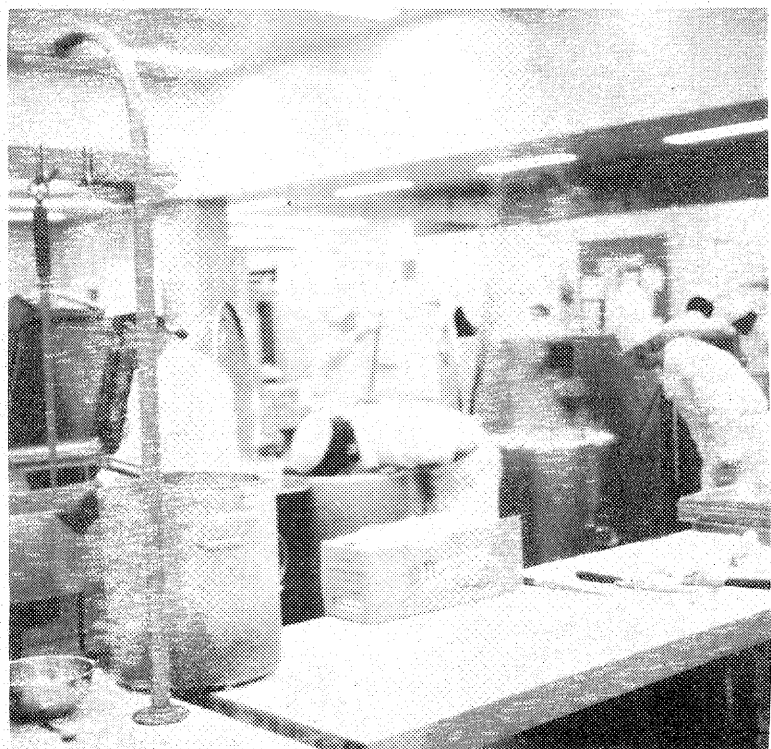
Way back in 1926, the name SAFEWAY first appeared over a food store. Today SAFEWAY is the second largest grocery chain in the world. By diversification and integration SAFEWAY now is not only recognized as a large food chain but also as a Producer, Packager, Merchandiser and retail vendor of products amounting to sales in billions of dollars. SAFEWAY is continually expanding and becoming more highly specialized requiring highly skilled personnel for its many and varied operations. Shouldn't you consider a career with SAFEWAY...over 80,000 persons have.



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## Commercial Cooking



In recent years millions of dollars have been invested in the Food Service industry to cater to the ever increasing demands of the Canadian population, as well as the flourishing tourist industry.

The Food Service Department at the Northern Alberta Institute of Technology has a dual purpose. First, the Food Service department trains young men and women for the expanding field of Food Servicing. Secondly, the Food Service Department provides catering as a professional service to the institute. To effectively train students and at the same time provide suitable service to the Institute.

This is a two year course. The objectives of this course are to develop the student's appreciation and understanding of sound food preparation methods. This entails a knowledge of the physical facilities within a food preparation area as well as various methods of cooking and serving food. This course is designed to fill the growing need for men and women who are trained in the preparation of food on a large scale. Students are taught to prepare and serve nutritious food in various and attractive ways, and to purchase and handle supplies so that an establishment may operate at a reasonable profit, observing at all times the importance of cleanliness, sanitation and good public relations.

Students are taught meat cutting, pastry and desert prepara-

tion, salad making, soup and vegetable cookery and the service of food. Mastery of the practical skills is achieved by realistic and practical work in the kitchen, with the comprehension and technical information taught in the classrooms. While the first years students are acquainted with the basics of Commercial Cooking, the second year broadens and deepens the knowledge and skills learned in the first year. Emphasis is placed on the culinary arts.

Advanced cooking, ice cooking, fat sculpturing, pulled sugar work, chocolate work and marzipan, are some of the areas covered in the second year. Professional responsibility is also emphasized in the second year. The students are encouraged to assess themselves as a professional food worker. Since catering is a service to people, the prospective student should have certain personality traits - He must be able to work under pressure, communicate effectively, and bear in mind that food catering means evening and weekend work.

### EMPLOYMENT OPPORTUNITIES

Jobs are many and varied from: restaurants, hotel dining rooms, department stores, coffee shops,

clubs, hospitals, institutions, mining and logging camps, and catering firms are all looking for people trained in quality cooking. Starting salaries vary depending on experience, personality, willingness to cook, amount of training, and other factors.

## Commercial Sign Writing



Collected Ramblings from Commercial Signwriting  
As simple as a, b, c to construct the B is really quite tough  
Cee the instructor carefully show a Dozen signs arts students  
Essentials of brush control  
For in the field of signwriting Gothic, roman and all  
Have to be lettered perfect  
In every word we draw.  
Just a simple layout  
Kept clean of extra frills  
Leads your eye to reading  
Messages, ads and brills  
Never a laggard here  
Only ambitious artists  
Painting project panels and apper "Quick brown fox jumps over"  
Red, yellow and blue,  
Slowly, straight and square  
There is sometimes someone  
Under Mr. D.'s watchful eye  
Viewing from above  
Who is relaxing and  
Xercising their freedom of speech  
Yes, 'tis a colorful career  
Zooming ahead this century  
to TELL THE WORLD WITH SIGNS.

## Computer Systems Technology



Computer Systems Technology is a two year course designed to produce programmers to handle complex problems in a business environment. The course is geared towards those students interested in obtaining a position in a commercial field, although there is some emphasis placed on mathematic and statistical areas.

During their first year of studies, students are taught the concepts and utilization of FORTRAN AND ASSEMBLER languages. Many programs are written in each language to ensure that the student has grasped the basic instructions used in solving the problems.

Students are required to take English, Accounting, and Business Math. A solid understanding of accounting procedure is beneficial to the student when entering their second year, as application of the principles is brought out when involved in Systems Design,

Production Planning and Inventory Control.

Second year students have an opportunity to display their own programming techniques in solving problems in either COBOL or RPG. Intricate problems are expected to be programmed using the most efficient method, as if the student was actually working in a business atmosphere.

Most problems are involved with creating and updating a file consisting of several records of different types, and then developing report determined by data flowing into the program.

During the second year students are asked to display their knowledge of the course by preparing various projects.

Fictitious companies are drawn up by the students, with a minimal of assistance from the instructors, to show System Design and the practical demonstration of accounting in a computer's instal-

Continued on page 14

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## CONGRATULATIONS TO THE STAFF AND STUDENTS OF NAIT

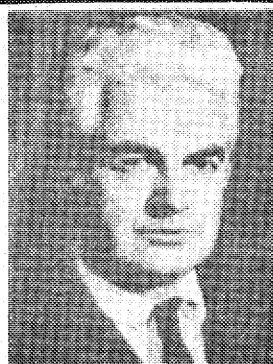


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IN EDMONTON

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## CONGRATULATIONS

AND  
BEST  
WISHES



It gives us great pleasure, on behalf of the City of Edmonton, to extend to the students and staff of the Northern Alberta Institute of Technology our congratulations and best wishes on this your eighth year of a vital service to the City of Edmonton and Northern Alberta.

The educational facilities and courses offered by NAIT are unsurpassed anywhere on this continent and the high degree of proficiency attained by the graduating students is a credit not only to themselves but to the Institution and its instructors and teachers.

Perhaps the success of the Northern Alberta Institute of Technology from its opening day, aside from the keenness of students enrolled and the capabilities and enthusiasm of their teachers, can be attributed to the closeness in which the administration works with industry to determine the courses and the content which should be taught.

The success of this course of action is evident in the high number of job placements throughout Canada for graduating students.

We are sincerely proud of NAIT and its accomplishments.



Trevor G. Dent  
MAYOR



## Computer Systems Continued from page 13

lation. Each display is unequal with interesting and unique ideas brought out in every system.

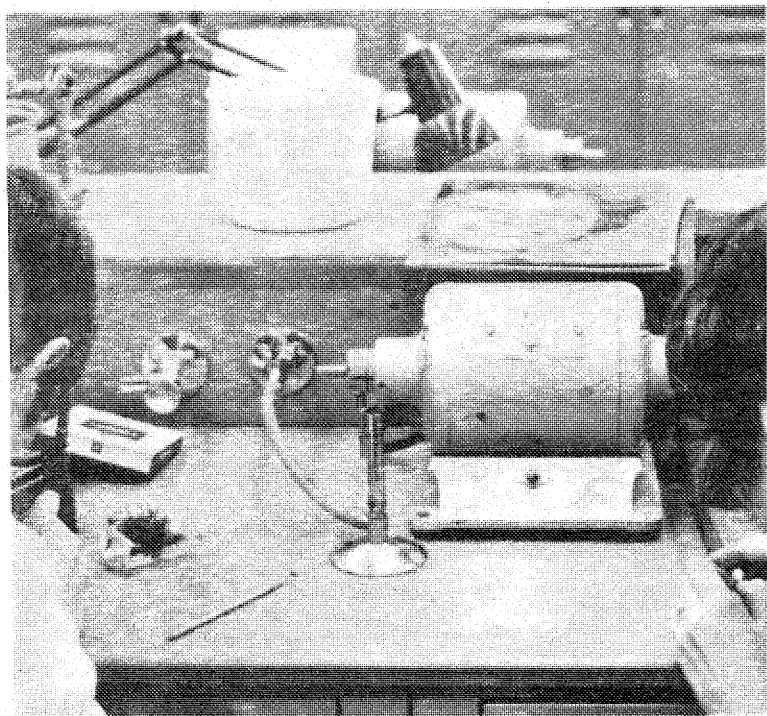
In the final quarter, topics complimentary to the computer industry are given to each pair of student whom in turn give a presentation of it. A system is also given to second year students as a final programming problem. Students must be able to produce a systems design, complete documentation of the system and results to the problem indicate that they have learned a great deal of programming in their two years.

Upon graduating, students are hired as competent programmers. Graduates either relocate or are employed locally by in-

dustries, private or government operated.

At Open House it is hoped that visitors to the data centre will be able to conceive what takes place in Computer Systems Technology. The display will be set up to show course material covered in each year - to the commercial applications of the course, both present and future-to the activities the technology is involved with. A special display will set aside as an educational feature for visiting dignitaries, but will also be open to the public. Student programs will also be run to show program submission procedure and the capabilities of various programs.

## Dental Lab



STUDENTS MAKING FALSE TEETH

Within the dental profession there are two categories - dental mechanics and dental technicians. Dental mechanics make complete dentures directly for the public and dental technicians work under the specification of a dentist. NAIT offers a two year program designed to introduce students to this field. The first year is divided between the ritual and practical work, giving a background in business, English, mathematics, anatomy and materials used in dental prosthetics. The second year is given to practical clinical procedure and general laboratory techniques.

Upon acquiring a diploma one may choose to apprentice as a mechanic or a technician.

To become a dental mechanic requires an apprenticeship of two years. After this period one may apply for a licence as a Certified Dental Mechanic. Whereupon one may seek a position in an established clinic or set up his own clinic.

A dental technician requires a three year apprenticeship before applying for a licence. He may apprentice in a commercial dental laboratory or directly under a dentist. This aspect of dental laboratory technology entails partial dentures, gold and porcelain tooth restoration and orthodontics

(the correction of tooth irregularities). In this area one may specialize or become a general dental technician.

Prospective students are required to have a high school diploma and should possess a high degree of manual dexterity.

## Dental Laboratory Technology

The modern dental technologist plays a very important role in our society, in the care, maintenance and the restoration of good dental health. He is a highly skilled craftsman, who makes many different types of dental appliances, precise fitting restorations of gold, chrome or porcelain, or a combination of materials; as well as complete and partial dentures.

The objective of the two year institute course is to give the student a comprehensive understanding and experience in the major phases of dental laboratory technology. Following completion of the course, the student should be in a position to make a choice of his future career through a period of further apprenticeship, to qualify either as a certified dental mechanic or dental technician.

## Dental Assistant Tech.



To be loyal to my employer, my calling and myself.

To develop initiative--having the courage to assume responsibility and the imagination to create ideas and develop them.

To be prepared to visualize, take advantage of and fulfill the opportunities of my calling.

To be a co-worker---creating a spirit of co-operation and friendliness rather than one of fault finding and criticism.

To be enthusiastic---for therein lies the easiest way to accomplishment.

To be generous, not alone of my name but of my praise and my time.

To be tolerant with my associates, for at times I too make mistakes.

To be friendly, realizing that friendship bestows and receives happiness.

To be respected of the other person's viewpoint and condition.

To be systematic, believing that system makes for efficiency.

To know the value of time for both my employer and myself.

To safeguard my health, for good health is necessary for the achievement of a successful career.

To be tactful---always doing the right thing at the right time.

To be courteous---for this is the badge of good breeding.

To walk on the sunny side of the street, seeing the beautiful things in life rather than fearing the shadows.

To keep smiling always.

It is by this quote, that the girls making Dental Assisting their careers must live.

In September of every year, girls from all over the province enter one of the world's oldest and most honored of all professions. Throughout the years duration, such subjects as Oral Anatomy, Radiology, Bacteriology, Materials and Equipment are offered in order to give each girl a knowledge so that she in turn becomes a valuable member of the dental health team.

As in every other technology in NAIT, we are on the quarter system. This means that we cover a lot of new and strange material in a twelve week period. During the first quarter we are subjected to a whole new atmosphere. Besides the strangeness of the course most of us must learn to take notes and study all over again. We write final exams approximately the second week in December. Then comes Christmas when everyone gets that well deserved break.

During the second quarter, we are scheduled to observe the dental health team at work. We make the rounds of the Specialists' offices here in the city. After observing it seems to awaken some feeling hidden deep down inside that makes you wish you were working at this most pleasant of professions.

The highlight of our training comes in March and April when

at last we are able to get our "fingers in the pie". For three weeks we're off to the University where we work with the dental undergraduates to learn the ropes. We then continue to practical training by going to a dental office for three weeks either here or in Calgary. When our time is up we return to NAIT for a months instruction in various other courses. Then final exams.

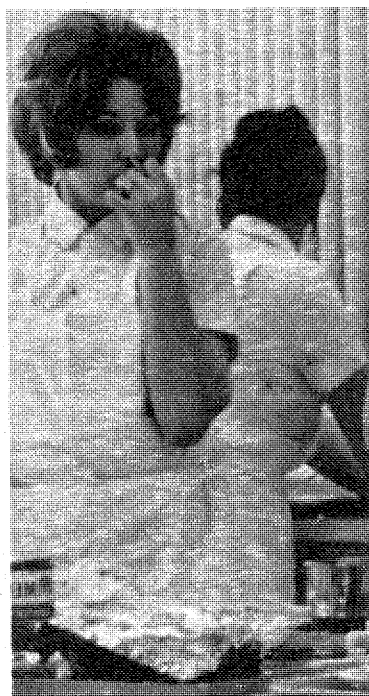
To break the monotony of all these studies we try to earn a little money of the side. The D.A.s lower their dignity and pride and become slaves for a day. The Dental Technology sells us to the highest bidder. During that day you may see the odd girl struggling under a pile of books or busy running errands. Most of the guys were very nice though and we girls spent most of the day drinking coffee and having fun. Most of the class belongs to the Edmonton Dental Nurses and Assistant's Association. This gives us a chance to meet the other girls in the profession and to have an evening out.

In early June, we have the highlight of the year, "Graduation." I think this is everyone's dream, to complete their chosen course and feel as though they have accomplished something. We would like to wish all the girls the best in the future.

There cannot be a more urgent request that D.A.s continue their education. As one man said:

"Education, your self improvement, you must tuck under your white cap for one and all---regardless of what subject, at what level, or for what purpose, it is intended, is best accomplished by a liberal application of Patience Love and Understanding. These fundamental truths apply whether you want to be a Dental Assistant, an Actor or a Politician. Any D.A. worth her salt will accept this and apply her learning daily."

## Dietary Technology



Do you like working with food and people, and planning diets? Then maybe the Dietary Technology course is for you. Dietary Technicians are working in large cities or small towns. They are

employed in hospitals, nursing homes, commercial institutions assisting a food service manager or a dietitian. Some of the various activities they do include supervision in food-production areas, supervision in cafeterias, handling therapeutic diets, supervision of service of food, and in small hospitals the technicians may assume responsibility of the food service areas.

There are two phases of enrollment. One is a post high school course while the other course is for a person who wants to upgrade his position. For the past high school course the applicant needs 67 high school credits with a 'B' standing in Math 20 or 22. Three years of employment with at least one year working in the food service industry are required for the adult applicant. Both phases are open to men and women.

For both phases the course is two years in length. The first year, September to May, is spent at NAIT. Then the second year is spent in service training at a hospital or a commercial institu-

tion anywhere in the province. The final five weeks in June at the end of the second year are spent at NAIT. The subjects studied in the first year are the same for both the Dietary subjects include--

Normal and Therapeutic Nutrition Foods

Personnel Management

Physiology and Chemistry

Business subjects:

Mathematics and Accounting

English and Typing

The final weeks at NAIT in the second year consists of review of the knowledge so far gained and oral communications.

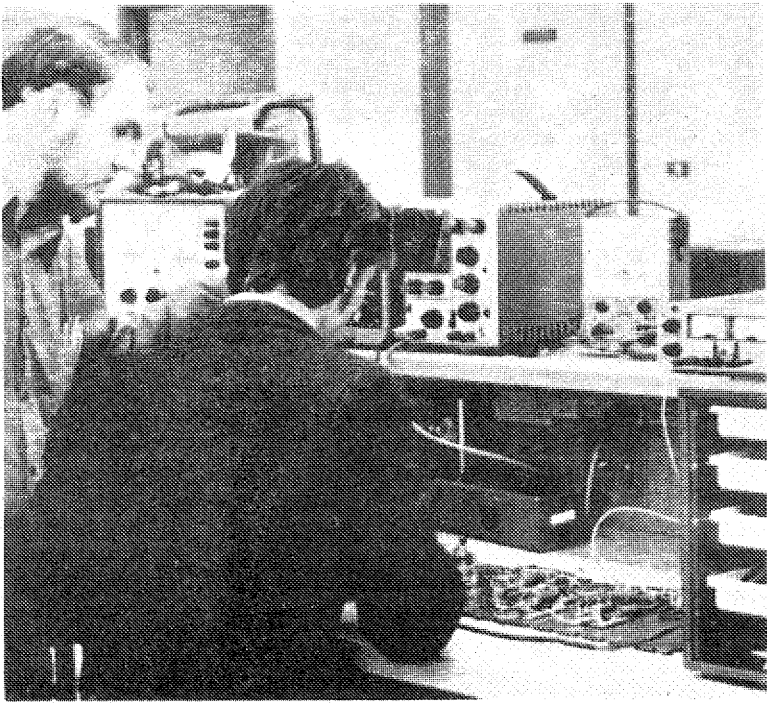
The Dietary Technicians wear white uniforms, white stockings, and white shoes both at NAIT and during the year of practical training.

When the students graduate they receive a diploma, cap, and a pin to signify they are Dietary Technicians.

A display has been set up on the first floor of the tower by the Dietary Technology students. Please do come and see it.



# Electronics



The very work itself brings visions of space-ships and banks of computers and flashing lights and buildings filled with humming, crackling equipment ready for the destruction or salvation of the world. Indeed, the advent of science fiction brought with it the concepts of Electronics even before Thomas Edison flipped the omnipotent switch.

But now Electronics has come forth from the realm of the science-fiction novelist and into reality, and has started a new era. There is not a facet of our lives that is not in some way connected with Electronics, and it is courses like the one offered at NAIT that produce the Electronics Technician and Technologists that are required in ever increasing numbers to create, service and maintain our Electronic livelihood.

The Electronics Engineering course is designed to produce engineering technologists of high caliber to work in design, research, production, maintenance, or installation phases of the electronic industry.

People entering Electronics have an option of either a three year course or an accelerated two year program depending on their qualifications. During Year A the students are given an analysis of fundamental electronics theory which includes basic circuitry as applied to transistors and tubes.

During Year B students investigate the Electronics field more fully. Courses studied include the basics of instrumentation, and solid state, communications, and black and white television. All of these courses consist of both instructional theory and practical lab experience, using the highest quality and most modern electronic equipment available in the Electronics industry today. During Years A and B reinforcement courses as English, Calculus, Physics, and Engineering drafting are used to expand the student's knowledge.

In Year C the student delves more deeply into communications and solid state. Color television, industrial electronics, control systems, and computer fundamentals are also studied. Depending on the student's interest, there are optional courses offered so the student can expand

his knowledge in the field of his own choice. The options available are standardized calibration, radio and television broadcasting, modern physics, telecommunications, computer language, and exploration electronics. Laboratory experience is an integral part of every electronics course taken the three years of studies.

The curriculum and course content are being developed through the closest co-operation between the electronics department at NAIT and the employers themselves to insure that the graduate has a basic understanding of the rapidly expanding electronics industry. Graduates from electronics are presently employed by companies throughout North America as well as other parts of the world. They are also eligible for membership in the Institute of Electrical and Electronic Engineers and Alberta Society of Engineering Technicians.

The saying that "all work and no play makes Jack a dull boy," is also true at NAIT. Therefore, the Electronics Club organizes many extracurricular activities to help a student become involved both in social and or athletic life at NAIT. The Electronics Club boasts of being the most active club in school. Each year is started out by running a Miss Freshette candidate followed by a Get Acquainted Party. Regular parties are also staged throughout the year. One of the biggest aspects of the year at NAIT is the queen week. The Club traditionally sponsors a queen week. The Club also participates in all intramural sports. Members of the club are entitled to many useful things during his stay at NAIT. The membership card entitles the member to make purchases of electronic components and equipment at wholesale prices.

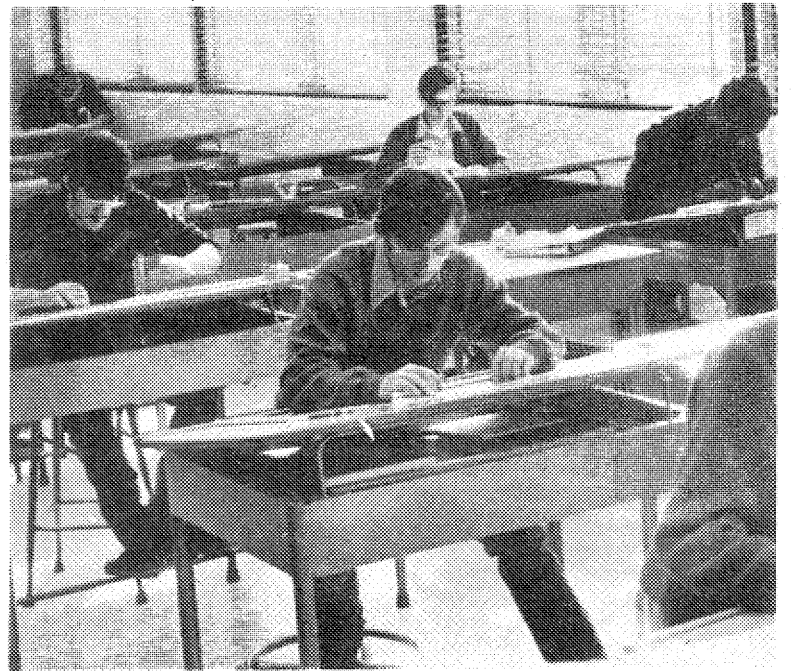
# Drafting Technology

We the student and instructors of Drafting Technology would like to take this opportunity to extend a warm and sincere welcome to all visitors, to this year's open house.

In previous years open house displays have catered mainly toward the spectacular side of exhibitions. By doing this it was apparent the basic intent of open house was being overlooked. The object of open house is to inform the public and the prospective student what the Northern Alberta Institute of Technology is all about. Open house should allow especially, prospective students to be informed about what he or she can expect while taking a course at NAIT.

Basically this is what the theme of Drafting Technology's open house display will be. By taking a conducted tour through our display we hope that it will be readily seen that being a Drafting student does not merely consist of sitting at a desk and pushing a pencil, if anything it is quite the opposite. To illustrate this point here is a list of some of the activities we as students partake in;

- operating a lathe
- Milling machine
- Drill press
- level
- transit
- cutting torch
- arc and gas welding
- mixing concrete and paint
- material testing
- interpreting aerial photographs



programming a computer to mention only a few.

From the above list it can be easily seen that Drafting Technology offers a wide scope of interest to any prospective student.

Since we are exposed to the five basic fields of Drafting, namely, Topographical, Mechanical, Structural, Electrical, and Architectural, we are thus able to pick the particular field which suits our particular interest. The trend this year has been to put more emphasis on the design aspect of drafting. A modern draftsman is expected to be able or skilled enough to design what he would normally just transpose on paper.

He is expected to be able to design basic structural members, pressure vessels, air-conditioning system, electrical layouts, concrete reinforcing, etc. This of course makes the draftsman far more valuable to industry.

Being a Drafting student is by no means an easy task. It requires a great deal of painstaking work and many late nights. We enjoy a good working relationship with our instructors.

So please drop into our open house display at E-205 and have a chat with us, we will be glad to answer any questions you care to ask us.

# Electrical Technology

Of all the things taken for granted in our age probably one of the most frequent is the availability of electrical energy. We are forcefully made aware of advance in areas of medicine, science, space technology, food production and industrialization of our society but seldom correlate them all with one common factor: electrical energy. All future advances serve to accelerate the demand for electrical energy and expand the opportunities for people trained in this field.

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, transformers, 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 subjects concentrate on industrial electronic control, static switching, supervisory control, telemetering, protective relaying, commercials and industrial design problems and theory application of computer math.

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.

## Congratulations

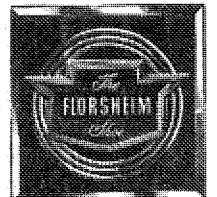
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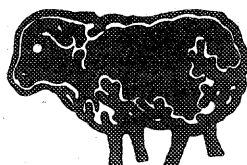
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# Food Technology

Food Technology deals with applications of principles and techniques of science, engineering, and social sciences to industrial preparations, processing, preservations, packaging, and distribution of the world's foods. The goal of Food Technology is to manufacture better foods more efficiently through development of new processes and techniques, selections of suitable raw mat-

erials, and the economic direction of industrial operations.

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 foods are now processed to some extent between producer and supermarket. Food technicians, working together with food scientists and engineers, form the vital

technological links in the food chains from producers to consumers.

The two-year NAIT program has been developed to train technicians for a wide range of technical and supervisory career opportunities in the food industry. Surveys indicate that this industry will require about twenty qualified technicians in Alberta each year and well over a hundred annually across Canada. The need for more highly qualified personnel at all levels in the food industry will continue to increase as processing methods and equipment become more complete, as more food crops are processed, as more convenience foods are developed for modern living, as fabricated foods are developed to assure adequate proteins, vitamins, and other essential nutrients, and as efforts are greatly expanded for feeding the world's rapidly growing populations.

The curriculum is planned to provide a sound knowledge of the basic sciences as a foundation for technical courses in food and industrial microbiology, food preservation, biochemistry, food analysis, sanitation, quality control, instrumentation, processing equipment, packaging, industrial relations, and production management. Laboratory exercises are supplemented wherever possible with organized visits to industrial food plants and laboratories for observations of manufacturing operations, testing, and research.

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 technicians, pilot plant supervisor, plant maintenance supervisor, plant superintendent, product development technician, production foreman, quality control supervisor, or research technician. Major components of the Alberta food industry include: dairy foods, meat and poultry packaging, brewing and distilling, canning, freezing, and dehydrating, vegetable oil refining, sugar manufacturing, milling and baking plants, and research, education, and government inspection agencies.

The food technician applies the principles and technical developments of food science and food engineering. Whenever he may work, he must be aware of the effects of production procedures on product quality and must be constantly alert against impaired quality spoilage from use of unsuitable raw materials or improper processing. The food technician must also be a good manager: he must be able to get things done effectively both with and through people whether his work is in the laboratory, in the plant, or behind a desk.

Program admission requirements are a high school diploma with 50% or better in Grade XI chemistry 20, Grade XI mathematics, biology, physics are asset subjects. Persons entering this field must have an interest in the sciences.

# Forestry Technology

The management of our renewable natural resources is gaining an ever increasing importance in today's world. Faced with the problem of accommodating an exploding population, the wise use of our remaining wild lands is becoming imperative. One need only consider the house he lives in, the water he uses, and indeed, the very newsprint he is reading now, to realize the consequences of losing our forests, ranges, and watersheds.

The forestry 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 and biological 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 to use one's own judgement and initiative.

The graduate of forest technology will find employment in government or industry as a forest ranger, park warden, cruiser, scaler, fire control officer or research technician. If travel is your bag, then CUSO offers a means of work in aiding underdeveloped countries in managing their forests. Pollution control may also offer employment in the future. In all cases, opportunity is limited only by individual interest and ambition.

Nature does not run to a man-made timepiece. So to you, who don't mind sometimes irregular hours and adverse conditions, forestry offers a career of variety of a healthy outdoor life in a stimulating atmosphere, compensate entirely for any lack of conveniences enjoyed by your urban counterparts.

## Exploration Technology



**GRAUIT METER USED IN OIL AND MINERAL EXPLORATION**

Exploration is that part of geology concerned with the discovery and location of petroleum, ground water and mineral deposits on the earth's surface, sub-surface, and on the ocean floor. It is the job of the Exploration Technologist to locate these deposits and extract them from the earth in the simplest and most economic manner. The methods used in locating these deposits are both complex and many. Therefore, the technologist involved in this type of work must undergo an intensive study of these methods and techniques.

The first year student must concern himself with such courses of study as chemistry, physics, calculus, drafting, surveying, mineralogy, structural, geology and English. The first year course is common to both those students interested in petroleum and minerals. The first year course gives the student a firm foundation in geology with which he can work in his second year of studies.

The second year student must decide whether he is going to specialize in either the Petroleum or Mineral option. The first two quarters are commonly oriented in regard to subjects with the exception of sedimentary, petrology, and formation evaluation which is concerned with petroleum, and mineralogy and electrical prospecting methods which is concerned with minning.

The third quarter presents an appreciable change in the course of study. The students specializing in Minning undergo studies in such courses as geochemistry,

mine operations, mineral exploration procedure as well as mineral oriented seminar which must be presented before a group of instructors.

The Petroleum student is involved with the study of exploration seismology, petroleum resources in Canada, well site procedures as well as a petroleum oriented seminar.

Other courses that are common to both minning and petroleum students are computer programming, statistics, geophysical instrumentation, English, Structural and Historical geology.

The Exploration Club with Doug Leichman as president, has been very active this year. Exploration parties have been a great success thanks to the management of Randy Hoyle, club social convener. Exploration technology is at the top of the list regarding sports this year. This is largely due to the high spirit co-operation among the students, and the efforts of Ron Pawlyk, club sports representative.

Open House this year will be unlike that of any other year for Exploration Technology this year the Exploration display will be divided into two separate categories-Petroleum and Mining. The theme presented this year will be, "Field to Office Procedures." The students are working hard to make the display as interesting and informative as possible for the enjoyment of the public.

We extend a hearty welcome to the public to come and see our displays in E121 and the study area of the Electronics wing.

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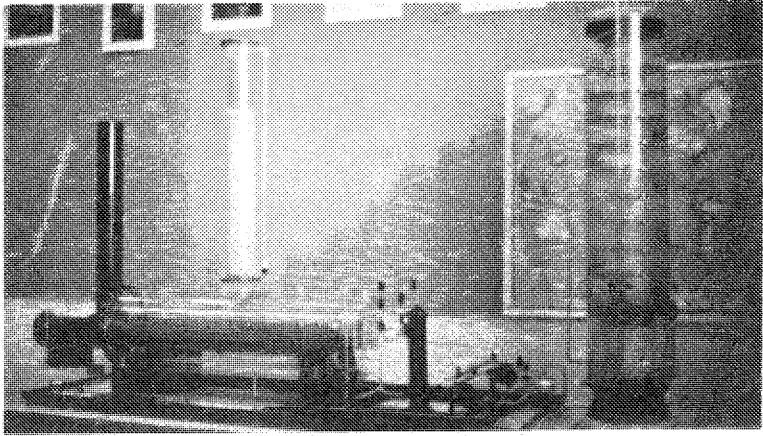
AT

# HENRY III

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## 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

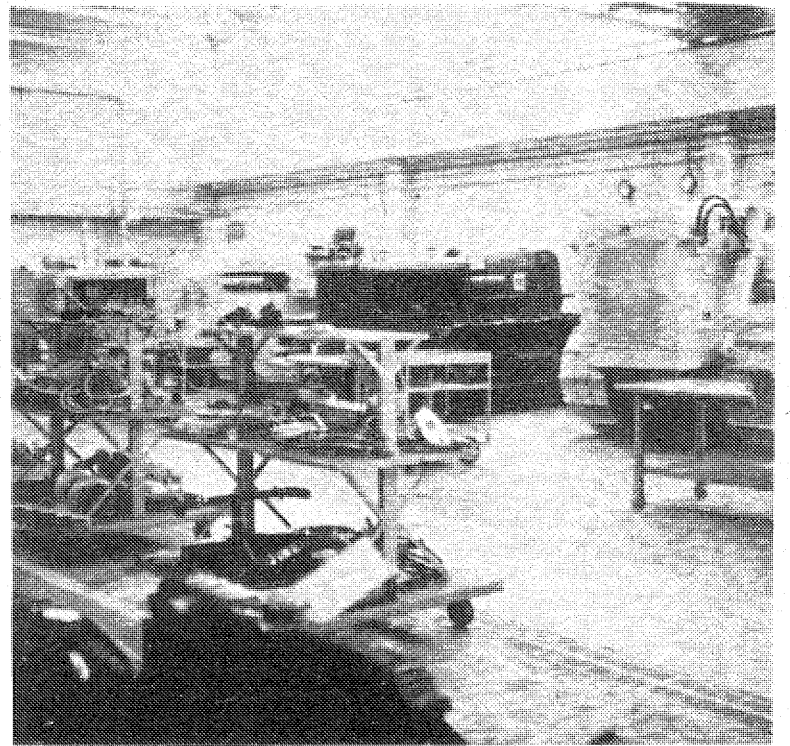
highest obtained by any of NAIT's graduates.

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 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 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.

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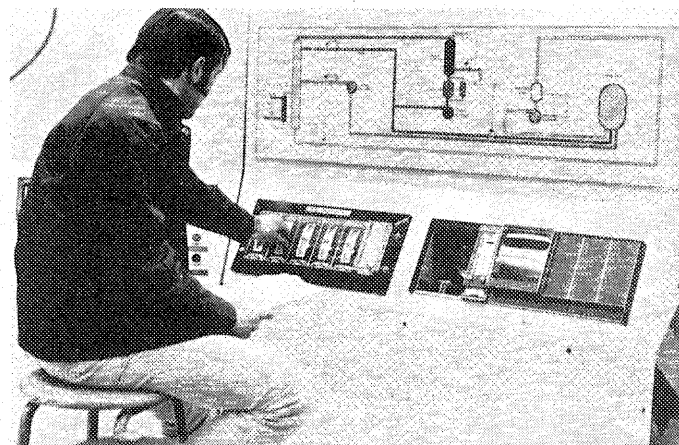
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# Instrumentation



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.

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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.

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 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.

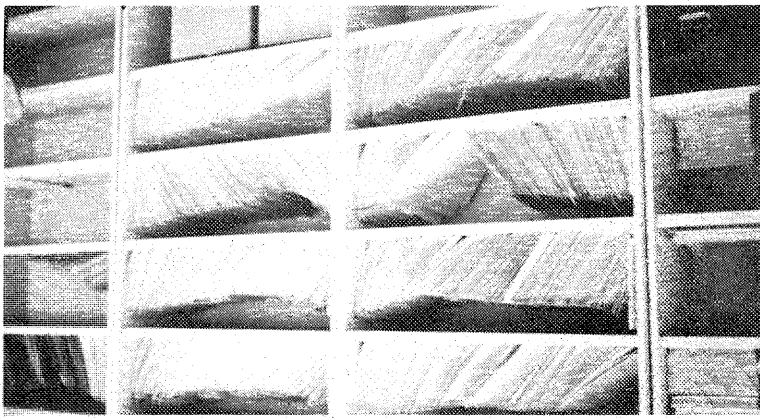
What sort of extracurricular activities are there at NAIT? We have set up our own Medical Record Society. The aim is to set up a sense of belonging and group participation with other Technology Clubs at NAIT. This year we participated in the great Bath-tub Race, had candy sales, raffles, car washes, 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

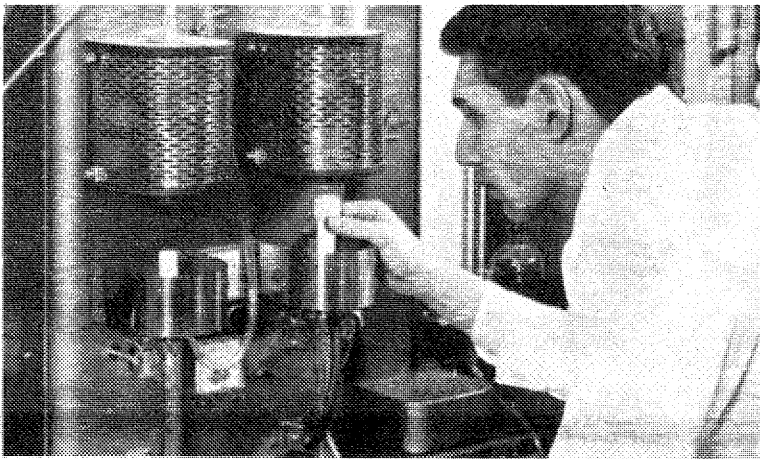
newspaper and yearbook.

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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# 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



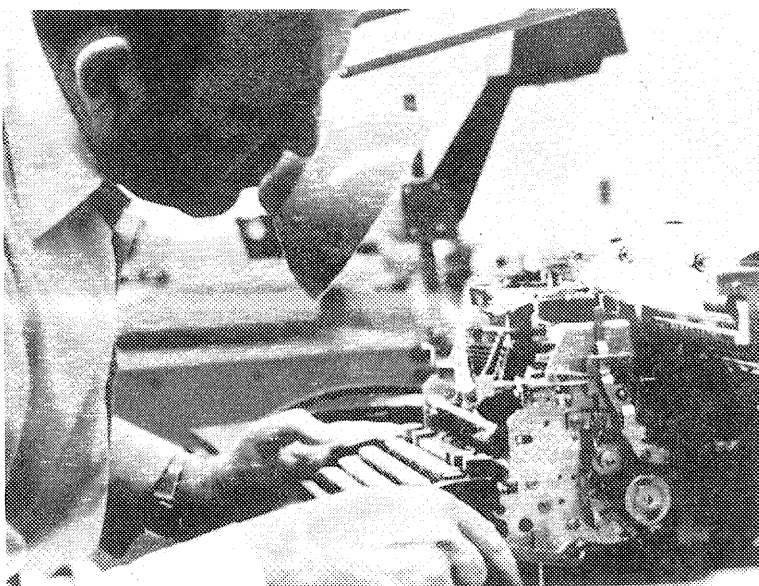
accredited training school in the hospital. Application may be made to any of the four city hospitals for training in Diagnostic Radiography. Students come to NAIT from Red Deer and Calgary. The Edmonton Cancer Clinic is the only training school among the hospitals or clinics in the province that is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

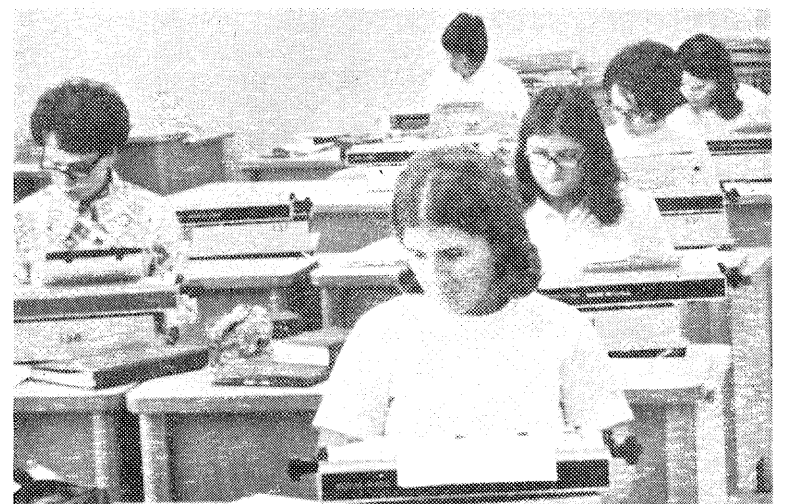
A question that is asked by all who are debating on entering this Technology is, "Is there a demand for Medical Typists?" As was pointed out in the opening paragraph of this outline, this is a brand new field, and as yet there are many hospitals that do not realize our potential. We must sell ourselves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

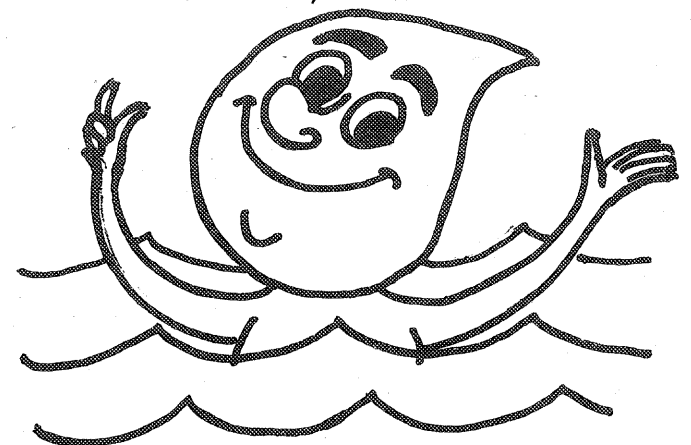
heavy at times, but perseverance and the desire for achievement enables them to make the grade.

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.



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## 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 sup-ability 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 supplement 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

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Co-editor.....	Lee Kearns
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Sports.....	Richard Johnstone
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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 with-in 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 lets 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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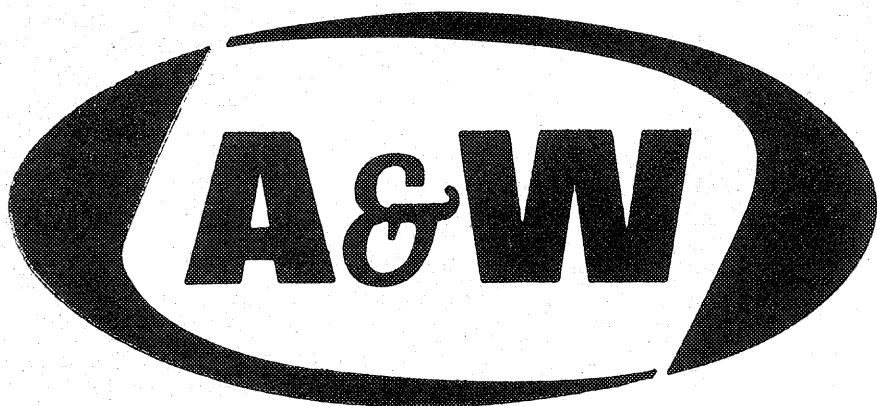
Besides having mink oil as a basic, there is no alcohol in KOS COT. Where most brands fall under two categories-cosmetics or skin care, KOS COT comes under both. Makeup goes on smoothly and remains fresh looking. It is also non-allergic, so young women with blemish problems or oily skin can guarantee themselves an excellent treatment.

Now that we have introduced

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.

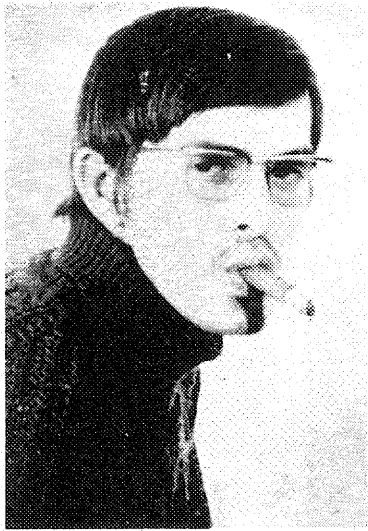
Anyone interested in selling KOS COT will not be restricted to any particular district and they will receive complete training. The sales woman receives 40% commission of what ever she sells. All persons interested contact your friendly KOS COT lady and have a chat with her. Contact Mrs. Ghilone at 455-5901,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

## J P A O R L O K

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 was less than average that Jesus found him. This could explain why some peo-

ple never find God. They are too 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."

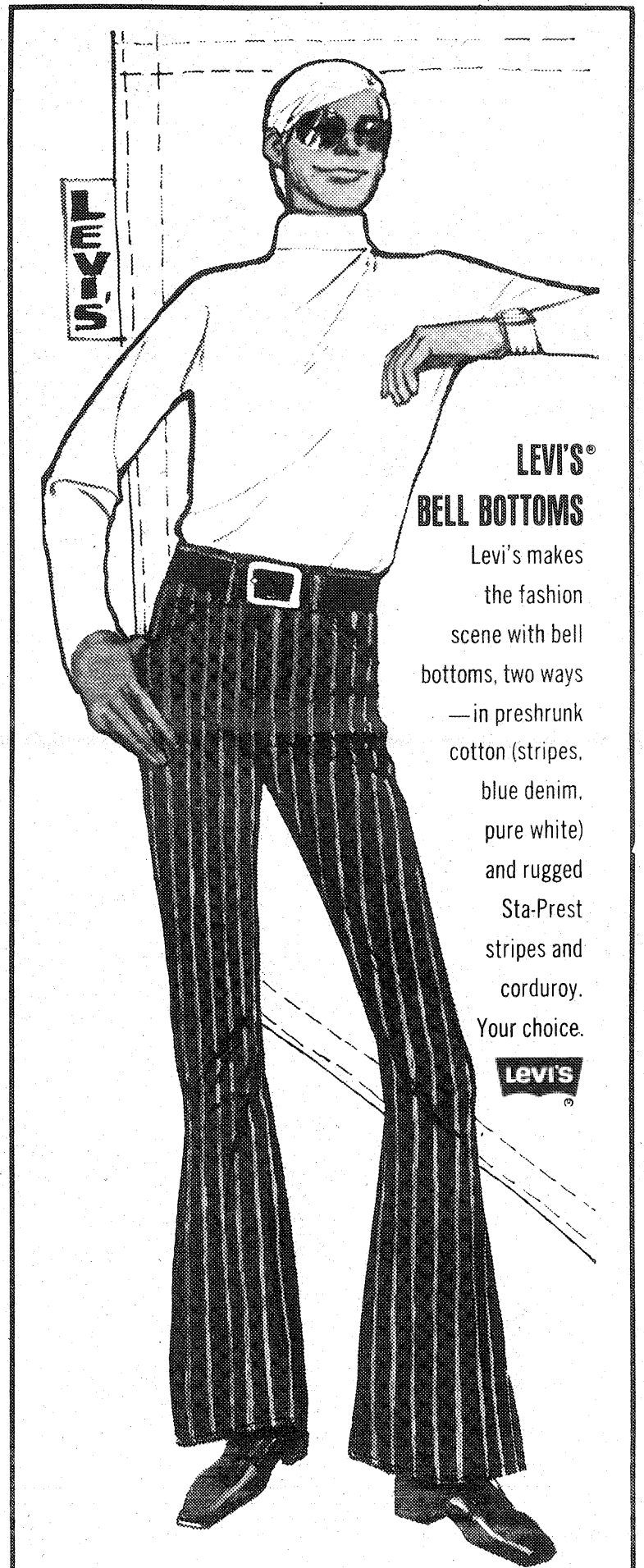
He meditated for a moment, then he suggested quietly, "How about two minutes of silence?"

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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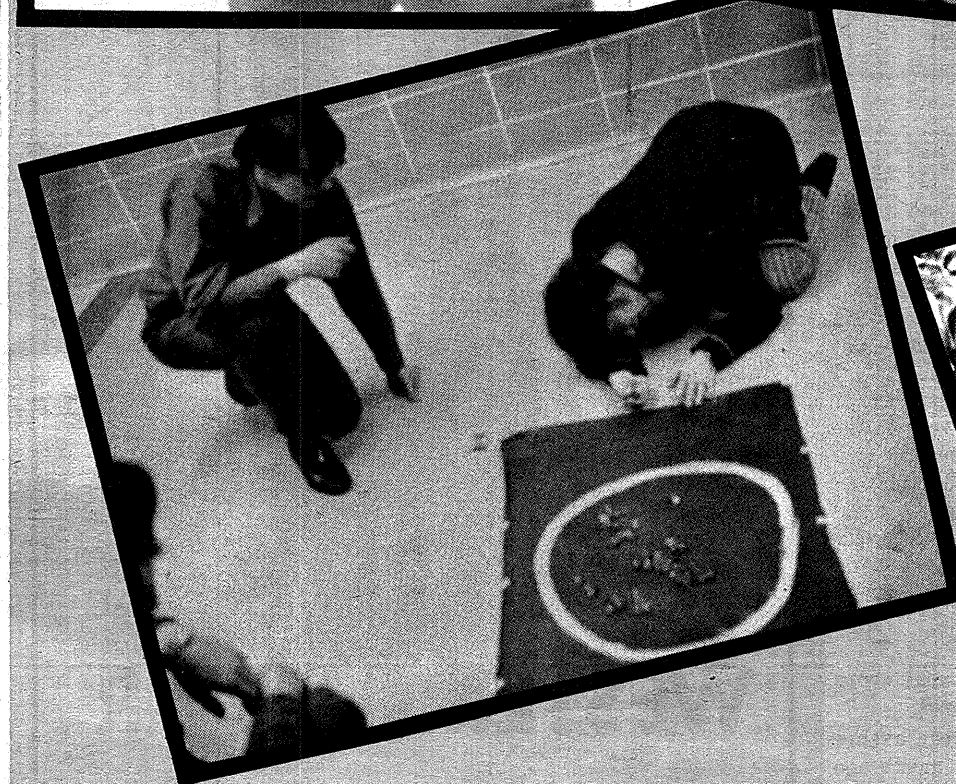
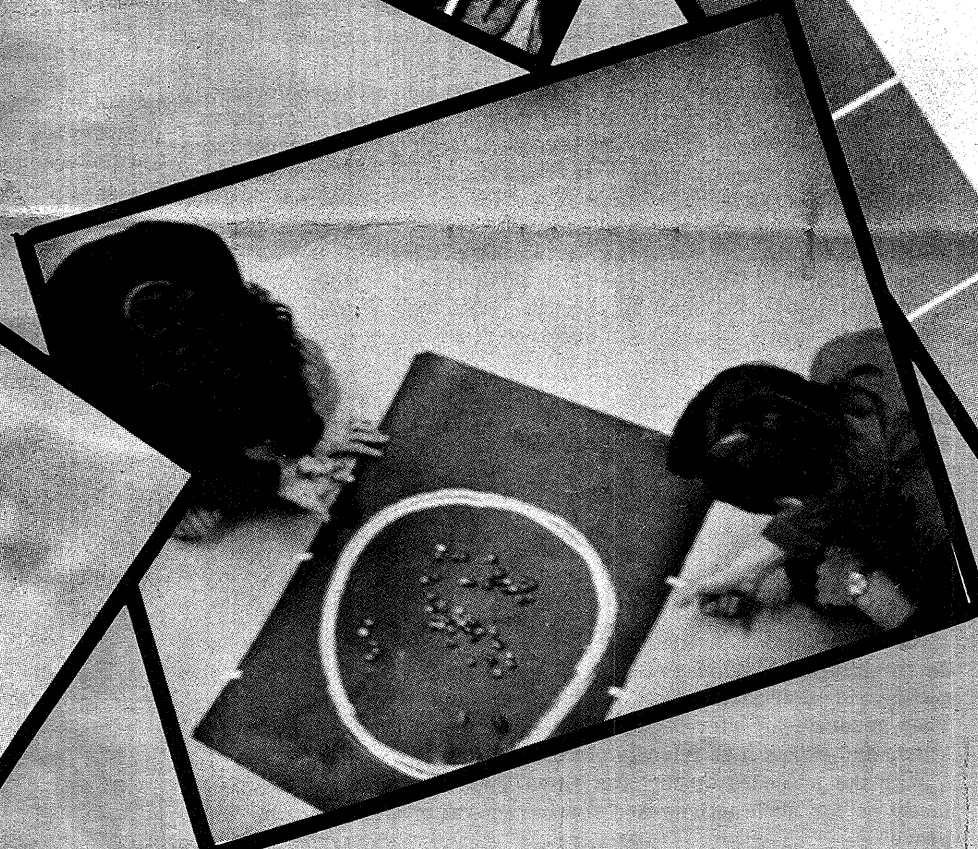
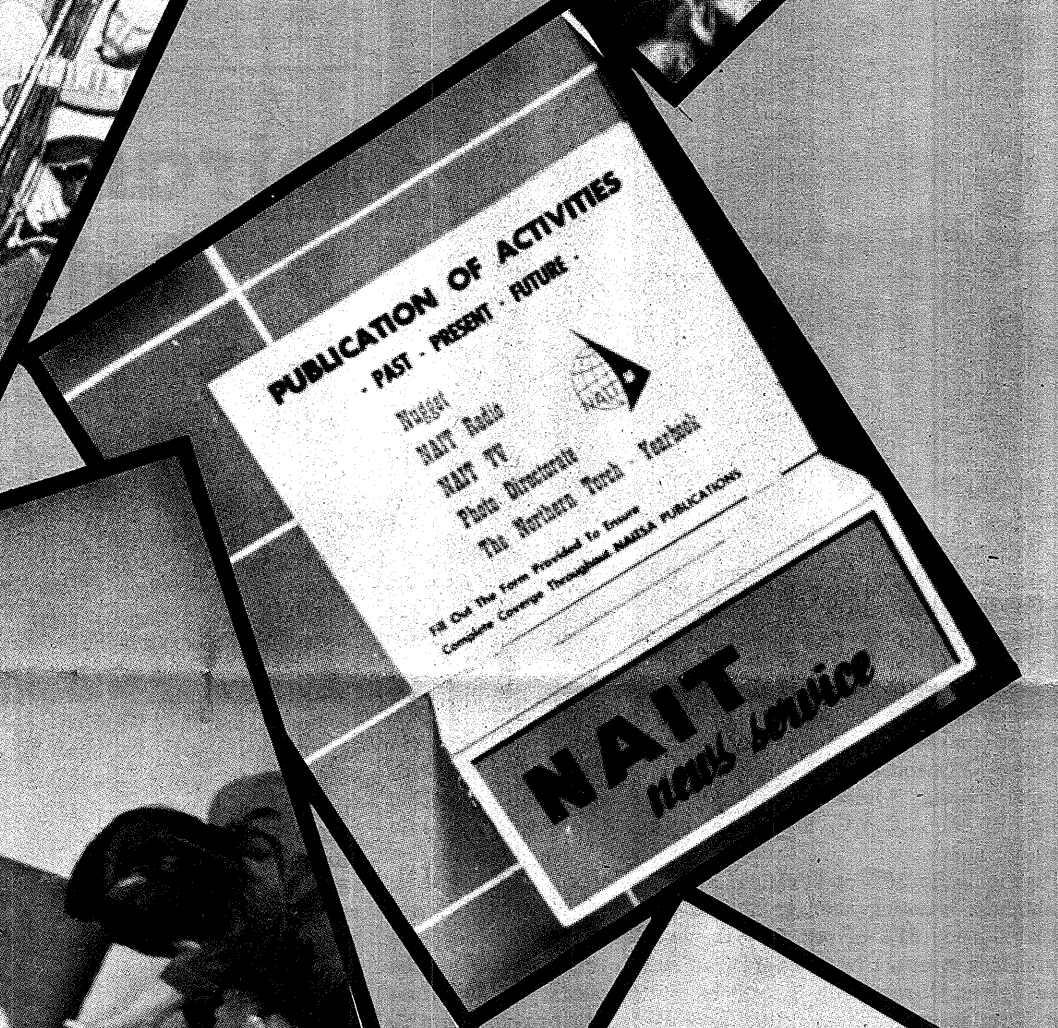
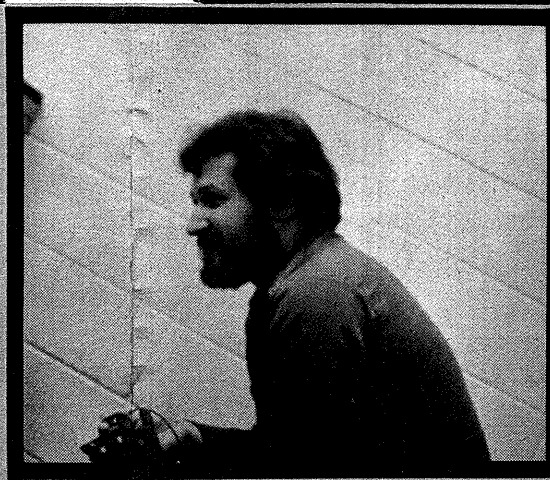
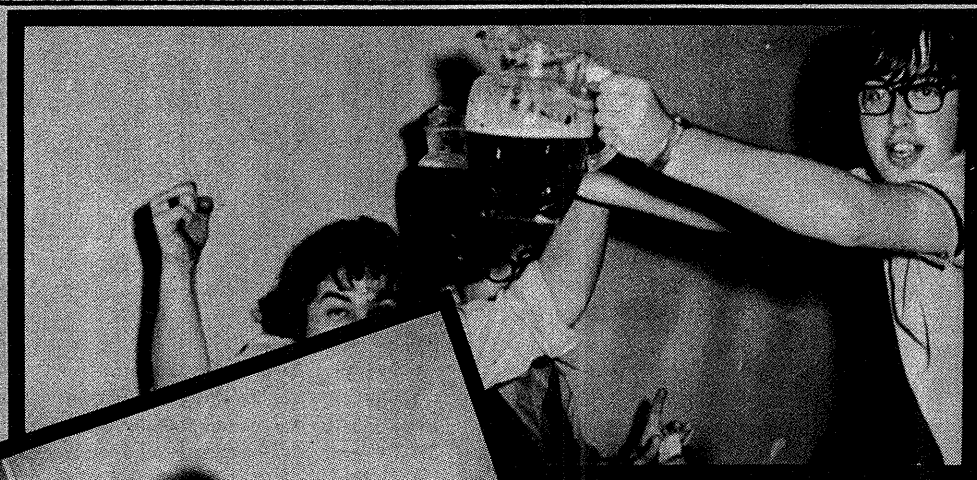
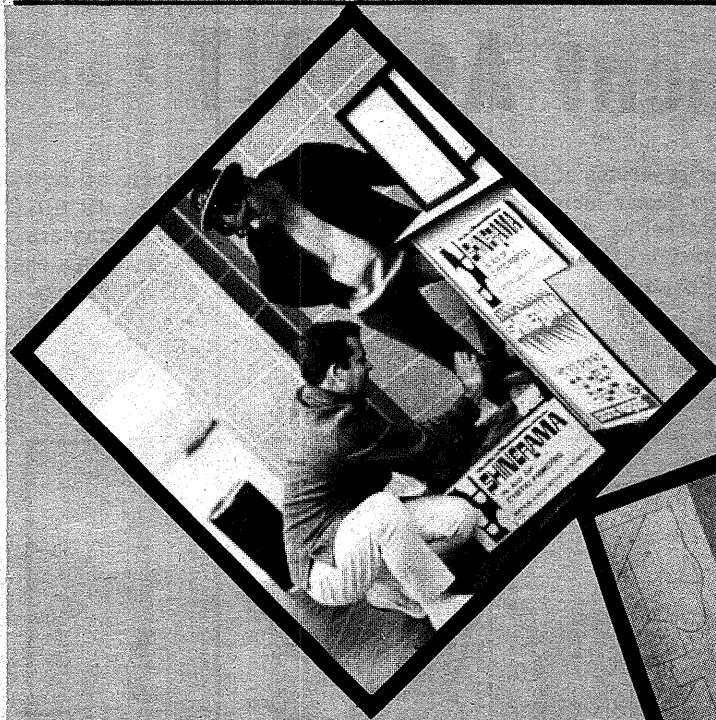
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# NAIT Ookpikettes

## 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

## 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 as 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



JOHN BOHONOS  
DIRECTOR  
Freelance Broadcaster

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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	63	76	257
G Bill Wyrostok	30	214	65	31	102	48	48	79	61	174
F Joe Butkovic	29	290	95	33	107	54	51	243	37	244
G Rick Krohman	28	206	29	28	40	30	75	76	37	88
G Dave Wilson	11	10	4	40	19	1	25	6	2	9
F Volker Wolf	24	105	26	25	209	141	59	93	6	63
F Roger Andresen	30	542	187	35	232	104	69	371	53	515
F Frank Ainsworth	30	758	253	34			44	464	54	610

# 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 Chalifoux, Sandy Cunningham.

# 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!

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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 Chalifoux  
Irene Korolak  
Janice Richards  
Sheila Savage  
Marie Halulera  
Karen Gaetzman  
Irene Salanczyi  
Sylvia Moroz  
Mary-Lea Rivet

# 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 ACAC 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

# 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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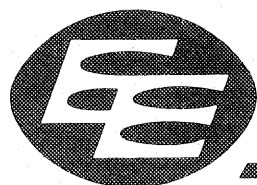
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# Series on Fashion

- 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 and 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 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 honorable 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

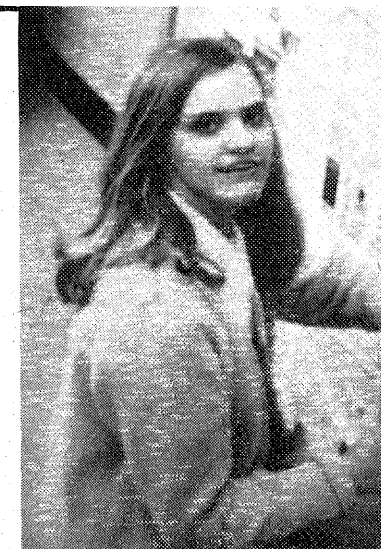
55,126 sq. miles

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.



Fashion Writer  
Debbi Fundytus

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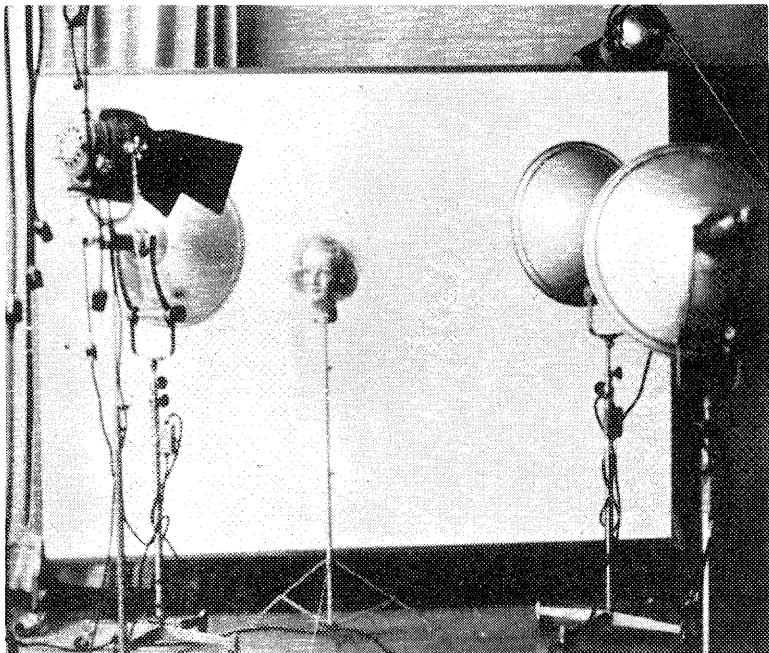
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# Photography



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.

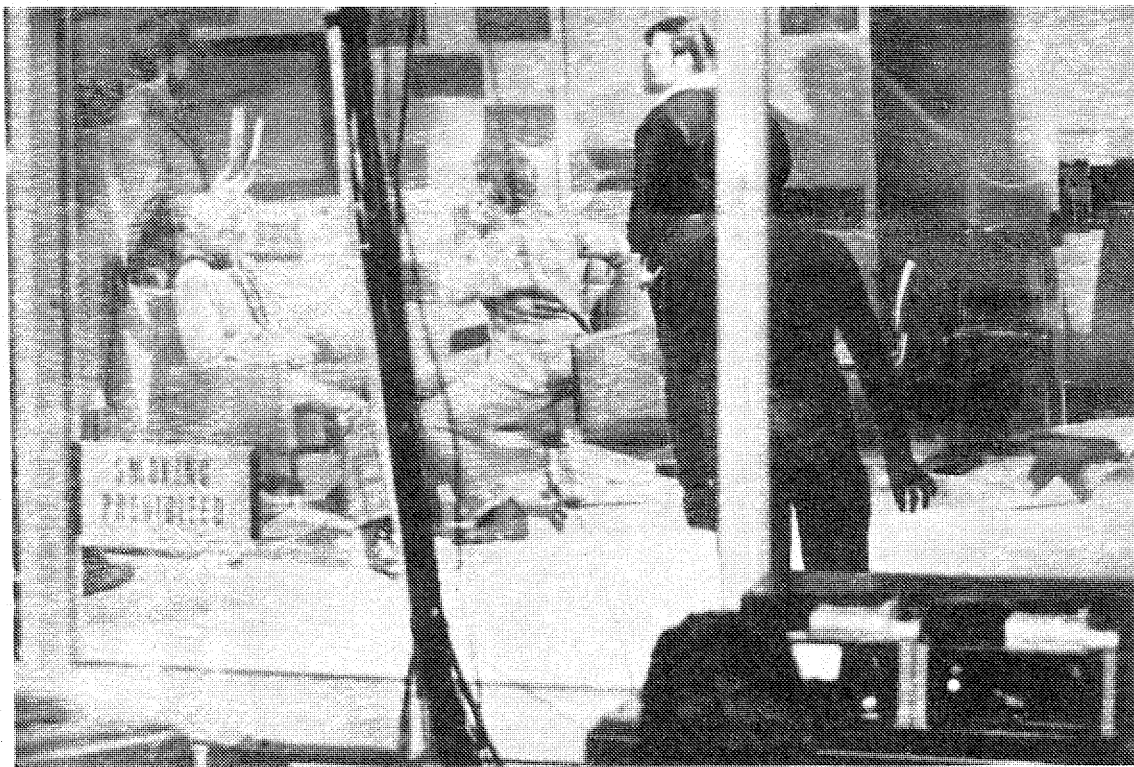
All courses are taught on a basis of a lecture on a topic followed by a practical assignment on that topic. The instruc-

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.

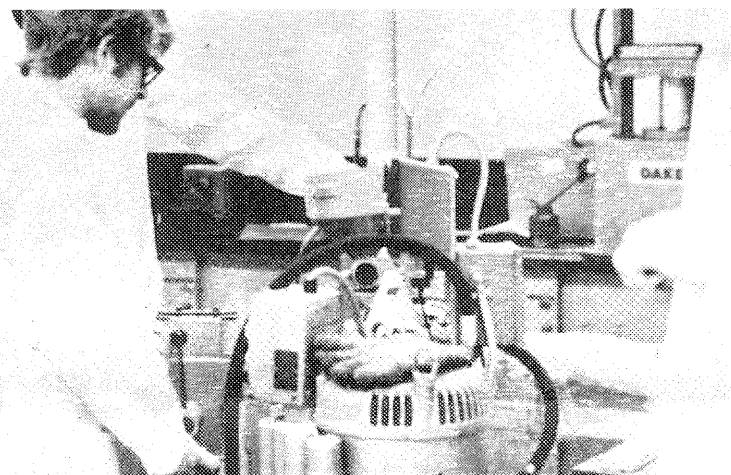
Over the three years' existence of Radio and Television Arts, a vast amount of professional equipment has been installed. This equipment includes two vidicon color cameras, four black and white video tape recorders, one color video tape recorder, twelve Sparta audio boards, and a professional McCurdy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

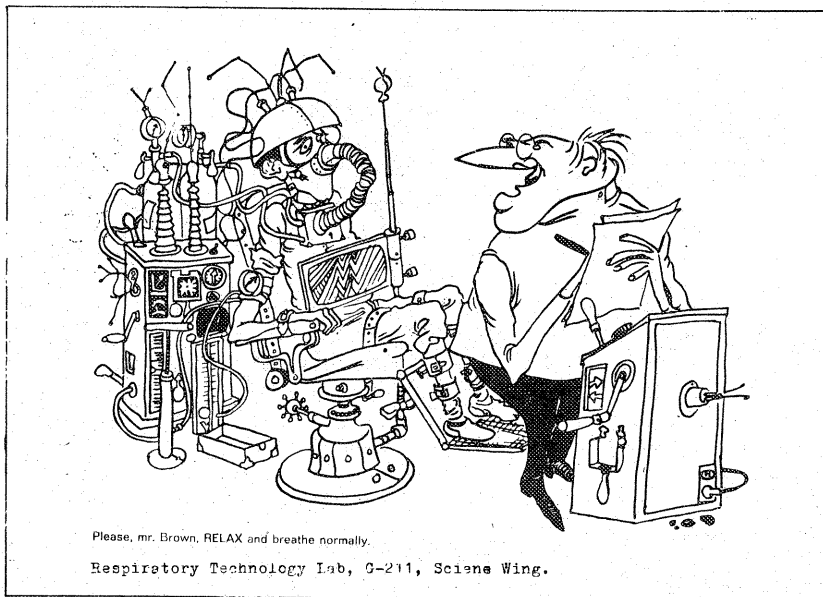


versatile. She must be prepared to perform countless activities that will free her boss to make more efficient use of his executive abilities.

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 comprehensive 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 maintenance, 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 administrative

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.

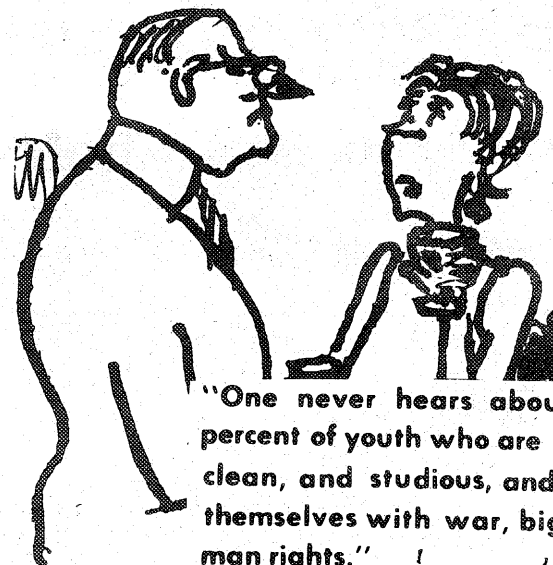
In order to do well in this field, an individual should have a genuine interest in people and their welfare. One must have the ability to work in harmony with all hospital staff and the assurance to face the encounters of life or death situations with competence. The students find the profession extremely 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.



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 in 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.

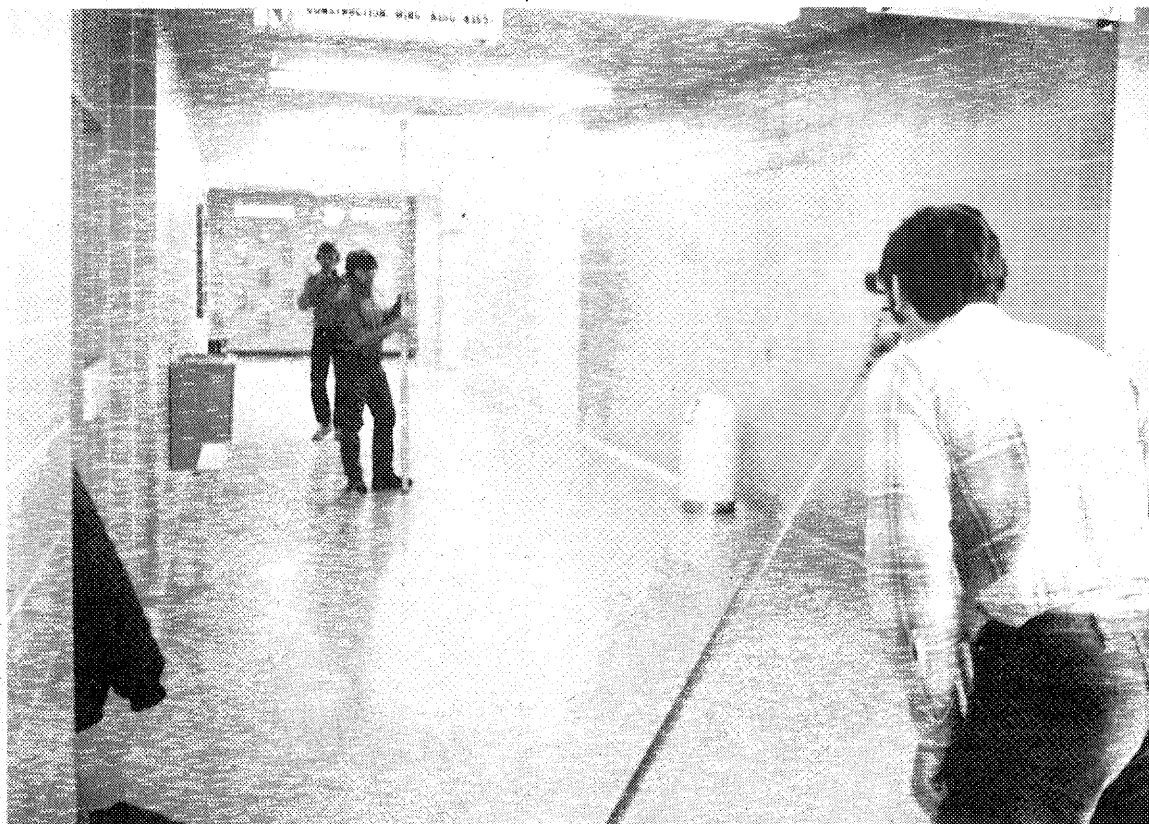
A second year could then be offered at NAIT or SAIT where students could enter a crash program in preparation for their professional examinations. This would result in better training and preparation for the exams. The person going surveying and not after his professional license, would then be released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

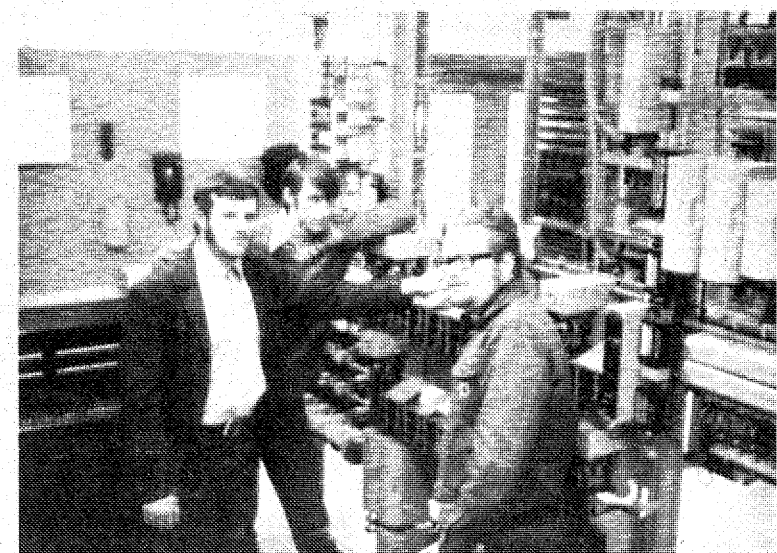
Ask a student enrolled in the courses for further information. Instructors are very biased, but after all, aren't they paid to give their opinions?

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.

# Survey



## 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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