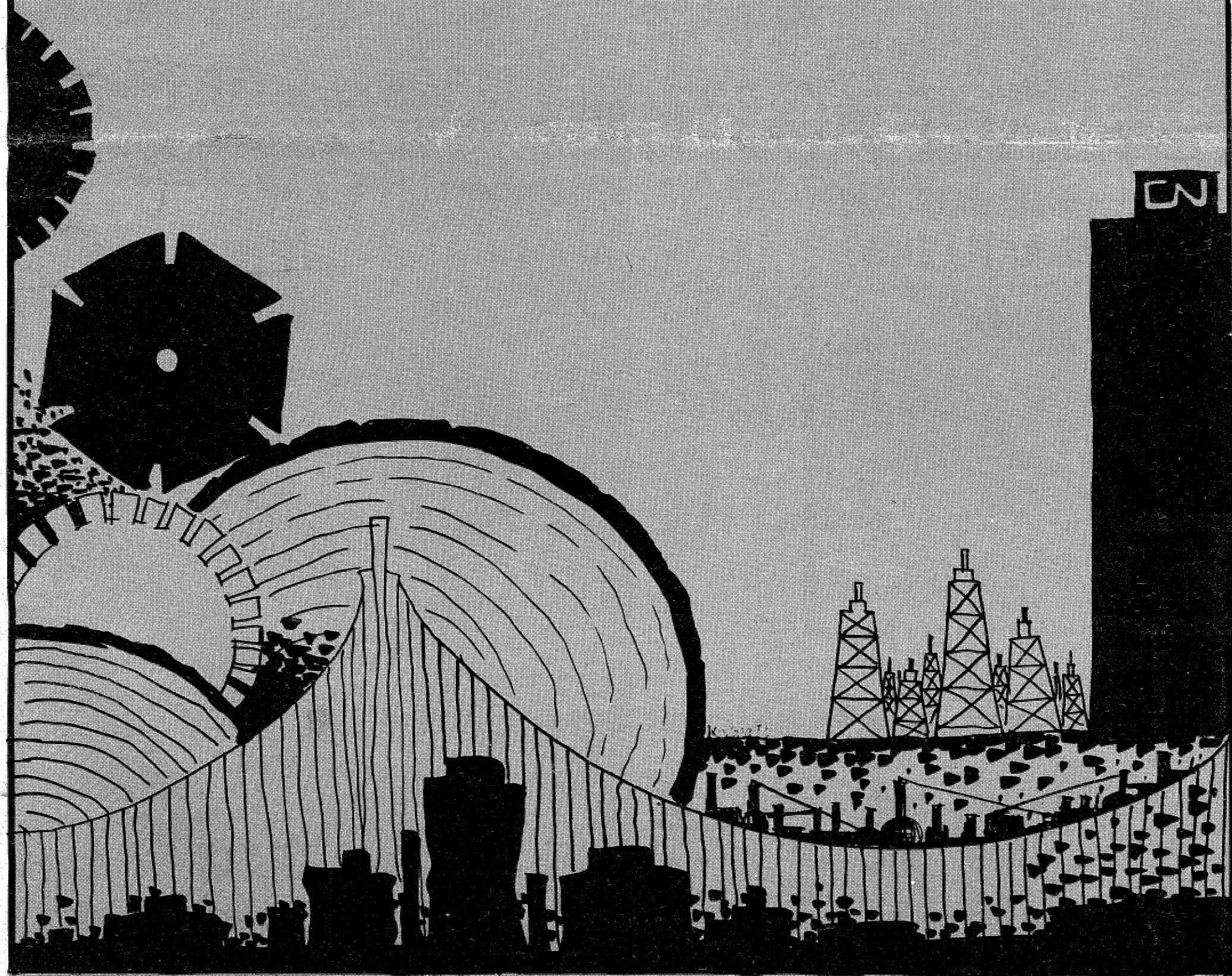


nait open house

edmonton alta.

march 17, 1972



McNally Library Out of the Past ... into the Future

And the Present as well as connecting the two, is a part of each and they, in turn a part of it, all blending together to constitute our civilization the past, present, and the future.

Edith Patterson Meyer in her book, "Meet the Future" quotes that, "It's important neither to be held captive by one's past nor to reject it. It contains much that is good, much that is the solid basis of what is positive about the present. At the same time, it is only a starting point, a something than which one ought to be able to do better. Even so, the present is not static; everything flows", said the Greek philosopher, and the present is the workshop for the future."

"The continuity of the library's role is this "blending of past, present, and future which constitutes civilization" is a satisfying thought. Bringing people and ideas together — the library's basic responsibility — remains the same yesterday, today, and tomorrow. No matter how social and economic and intellectual patterns of life may change, people will continue to enrich their present and build their future on ideas gathered from the recorded knowledge which it is the library's function to preserve and distribute."

Continuing this vein of thought, Miss Meyer reminds us

that, "the late twentieth century is called the "changingest" age in man's history", and that "the pace will increase, according to the scientific law which states that "change, once initiated, tends not only to continue but to accelerate". Past and future overlap our present. Our thoughts and talk are focused on the future, yet our roots and our standards of action and judgement are planted in the past." It has been said that this is 'an age when intelligence may prove to be our passport to survival'".

This passport can be provided through your library — here at your McNally Library. Using the present as "your workshop for the future" you, the student, can make yourself a dynamic indispensable part of tomorrow's world.

The materials in a library may change form, and the methods of making the materials available for knowledge may be in the realm of machines and computer systems but the principles are the same now as in the past, that of making ideas accessible, to make possible a meeting place for people and ideas through books, pamphlets, films, and micro material. It is 'the window to set free our horizons'.

Our McNally Library is at present in a central ideal location, for it is close to other services, such as the Administrative and



General Offices, the book store, and the cafeteria. In general layout, it has changed from the past to accommodate an expanding internal and external situation, more books, more staff, more students. However, there is still a functional design, for after looking at the card catalog or asking for information, the searchers may go direct to the open stacks, make his or her personal selection or just

browse, or perhaps read a magazine in the secluded area. Including the individual study carrels and counting the lounge chairs, the seating capacity is about 260. In the past, when the library was opened, in 1963, there were about 1,500 monthly attenders, now there is an average of 15 - 20,000, with a circulation increase from 1,000 to around 4,000. Evening and weekend afternoons have been added

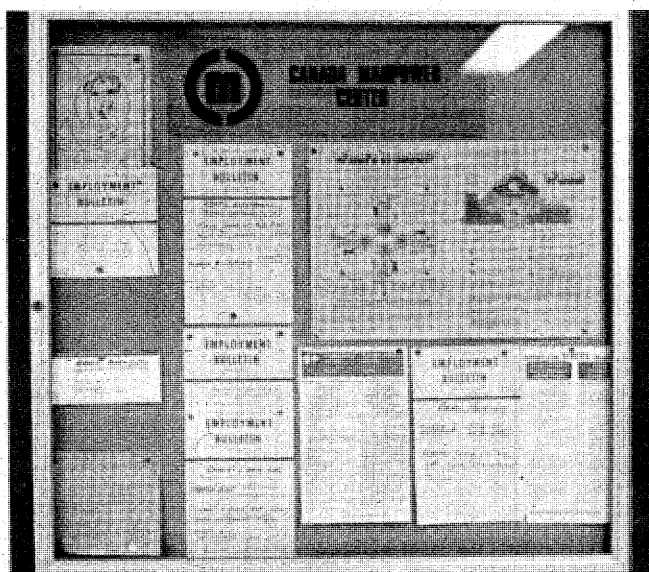
to our present opening hours.

In our workshop we have gathered the following materials: approximately 39,000 books and pamphlets, around 400 periodicals and a very small microform collection. They include ideas for reference, research, and relaxation.

So, present and future students, with our past graduates come and visit your McNally Library at this 1972 Open House to become acquainted or just to renew acquaintances and refresh old memories. This has been, is or will be your future workshop for that enriched later life—your Utopia. Your course may be the 'starting point', let us help you 'do better'.

We, the Staff, welcome you to use "our windows" to "set free" your horizons. To meet the challenge of today and tomorrow requires the same qualities it did to meet the challenge of yesterday — intelligence, courage, vitality, and vision. Again, we say let us help you "meet the future".

CANADA MANPOWER CENTRE & STUDENT PLACEMENT



EMPLOYMENT, a major aspect in the lives of all the students at NAIT, part-time, summer, permanent, the Student Placement Office plays an important role in aiding the student toward this goal. You, the employer, have in the past found our students to be of high calibre. We wish to take this opportunity to re-emphasize to you our role on campus in the area of recruitment for permanent, summer, or part-time positions. Information on average wage rates, the number of students available in each discipline, labor market information, etc., is available upon request. We are able to make arrangements for you to meet the

students en masse or individually, during his training, in one of our eight interviewing rooms.

To the students at NAIT, we are able to offer vocational counselling, career guidance, labor market information, and a chance to interview numerous employers on campus. We have an extensive library of material from various firms, the majority of whom have recruited on campus at your disposal.

All enquiries should be directed to Mr. N. McLeod, Officer in Charge, or Mrs. V. Paproski, Manpower Counsellor, Student Placement Office, E132, NAIT, telephone effective March 1st, 1972 — 477-4369 or 477-4370.

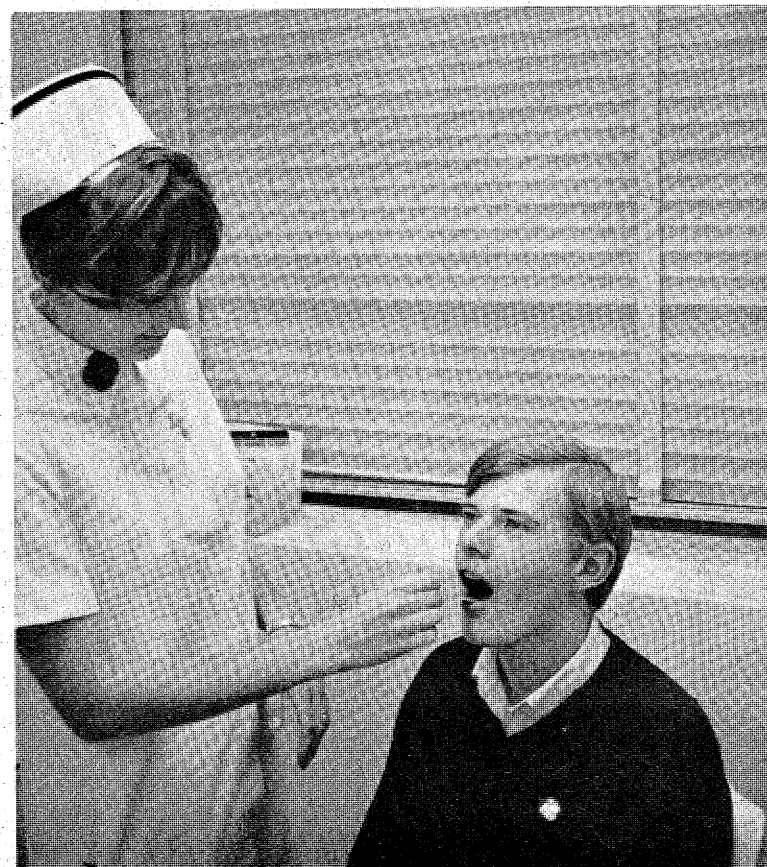
Student Health Service

The student Health Service provides all students with a varied programme of health care and supervision. The office is located in Room T 110, Tower Building and is open from 8:00 a.m. to 10:00 p.m. Monday through Thursday, and 8:00 a.m. to 4:30 p.m. Friday.

There is no physician attached to Student Health Services; however, the nursing staff is able to meet the student's nursing needs, carry out personal counselling, and assist him in making an appointment with a physician or dentist of his choice.

Students are urged to report to Health Services in the event of illness or injury. Frequently there is no need for more than nursing care. This can be determined at the time of the visit. If this procedure is followed much valuable study time can be saved by the student.

Students are reminded of the requirement to register with the Alberta Health Care Insurance Commission so that any medical costs will be covered in the event of illness or injury. In addition, the NAIT accident insurance policy covers a minimum of costs for transportation, medication,



hospitalization, and dental treatment, for injuries which occur while the student is on NAIT

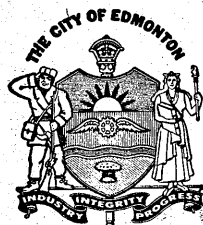
property, or while participating in NAIT sports, intramural or intercollegiate activities away from NAIT.

WELCOME

On behalf of the Council and the City of Edmonton may I extend a warm welcome to all Edmontonians and their neighbours in the surrounding district to "Open House" at N.A.I.T.

Your visit to the Institute brings sincere appreciation to the administrators of more than 4,500 students who will be demonstrating the various technologies they are studying.

I know you will appreciate, as I have, that the Northern Alberta Institute of Technology is a showcase for such technological studies.



Ivor G. Dent

Ivor G. Dent,
MAYOR

REGISTRAR'S DEPARTMENT



L. C. Semrau, Registrar and S. Kembry, Assistant Registrar

This Department is involved with every Department on campus. The staff consists of Registrar, Assistant Registrar, two secretaries, and five clerical staff.

The work includes the following:

1. Preparation of calendar and distribution of information to the general public and high school counsellors.

2. February 1st to September 15th is the official application period when some 5,500 applications are received for 2,700 positions each year. The applicants are notified of acceptance, hold for more information, sorry —

oversubscribed — replacement only.

3. Preparation of June graduation lists, honours and regular diplomas of Technology or Applied Arts, as well as Certificates and Certificates with Distinction for one year programs.

4. Receipt of final high school marks during the first part of August for final acceptances.

5. Three days of registration for students in the Business Education and Vocational Division, Industrial Division and Technology Division involving 3,500 students for 49 programs.

6. September to May — the total academic records of all students in attendance. (3,500 plus 5,000 apprentices who take their short term theory training with us each year).

7. Financial Assistance — Mr. Kembry, Assistant Registrar is the authority in this field. Problems can be discussed with our counter staff or referred to him for further particulars.

We attempt to provide efficient service to guide prospective applicants as well as students in obtaining the information required. Don't hesitate to phone us — 477-4355.

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NAITSA'S vice-president's message



In the past few years that I have attended studies here at NAIT, I have been able to help participate in Open House every year. Each year you can see the quality and workmanship of all displays, increasing.

This increase is due to the fact that NAIT'S reputation with the business world and public is steadily being improved through the efforts of its students, instructors, administrators and graduated students.

The areas of employment, whether private, public, Federal Government, Provincial Government or even areas outside of our community are more rapidly realizing the potential of the NAIT graduate.

There is still the question of how rapidly are we overflowing the employment market in different areas. Even if we are, do we have the right to tell the potential student that he cannot take a desired trade?

We do not, I feel have this right to foreclose on a person's desires. But we most definitely have an obligation to forecast to this student what his chances would be in the job market of his chosen trade, after graduation.

I have included the above point in this Open House issue for one main purpose; I am hoping that any of the potential students coming into any post-secondary institution, will deeply

consider what I have said. I hope this consideration will lead this fellow student to seek out relative information before registering in a course that may well leave him or her unemployed after graduation.

We hope you enjoy your visit here during NAIT Open House 1972. If it is your first visit to NAIT Open House I am sure you will marvel at the work our students have put into their displays. If it is more than your first visit to NAIT Open House, I am also sure you will marvel at the displays. For each year the students and instructors deeply endeavour to change their displays from previous years.

I have directed this message more so at the potential student rather than at the potential employer or public visitor. In doing so I have meant respect to all whether we are students or not, we will all have to live and work together.

Because the student is my main concern I would like to see that person enter into an education that will be beneficial to, himself as an individual; to the employment market as a livelihood and to the community as an active member.

Again welcome to our 1971-72 NAIT Open House, I sincerely hope you all enjoy your visit here. I am looking forward to meeting many new faces during the next two days.

Sincerely,

J. C. STIMSON,

NAITSA Vice-President,

Room E-133F

President's Message



Welcome to NAIT Open House, 1972!

This marks the tenth such event in the history of the Northern Alberta Institute of Technology. From the time NAIT held its first Open House in 1963, attendance at the event has grown from 22,000 visitors to over 40,000 last year. It is anticipated that even greater numbers will visit NAIT's Open House, 1972.

There has, also, been a steady increase in enrolments. This year there are 4,964 full time day students. In addition, the Division of Continuing Education will have served approximately 9,200 part time students by the year's end. Fifty-eight Hundred apprentices, also, will have received training during the 1971-72 term. Two Hundred and eight-four of the full time students were previously registered in a first or second year University program. MMM

Some of the students registered at NAIT have been influenced to do so by the fact that Institute graduates last year were relatively successful in obtaining employment, even though it was reported that fewer job opportunities existed.

One of the prime purposes of Open House is to bring to the attention of prospective students information on NAIT programs and activities. Both students and staff stand ready to answer any questions that you may have, and to provide specific information and detail on any of the Institute courses in which you are interested.

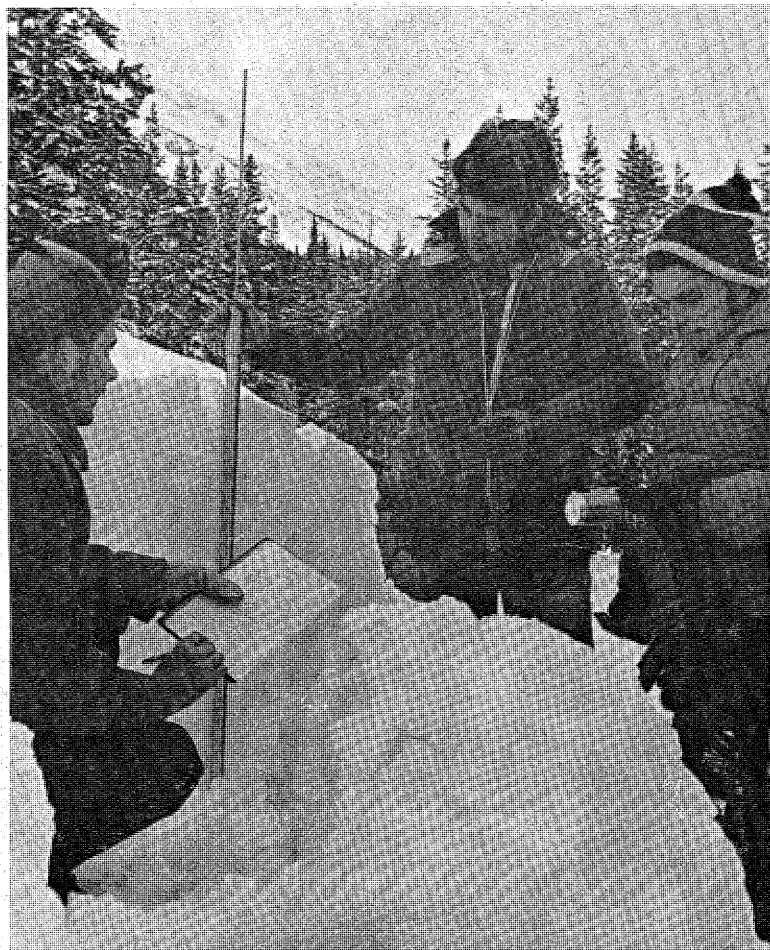
Open House also provides the opportunity for potential employers of NAIT graduates to gain some insight into the kind, content, and quality of instruction received by NAIT students in the Industrial, Technology, Business and Vocational, and Continuing Education Division of the Institute. The wide array of projects, displays, and demonstrations is designed to give visitors an interesting and pictorial view of typical subject content in the various programs.

The students and staff of each of the four major Divisions of the Institute have shared in the preparation of the displays in their respective areas. They are proud of NAIT and keenly interested in making your visit to our Open House one of the most memorable and worthwhile educational experiences of 1972.

Please enjoy yourself. We look forward to seeing you again, either as a student, or as a NAIT visitor.

G. W. CARTER,
President

BIOLOGICAL



AVALANCHE AND SNOW RESEARCH — Through the co-operation of the National Parks, students learn techniques associated with avalanche control work, Ray Frey (centre) Bio Sci. Student and Park Warden, is demonstrating the ram sonde, an instrument used in snow research, while class mate Perry Jacobson (right) examines a metal cylinder containing a sample of snow for specific gravity testing.



POLLUTION STUDIES — Pollution option students are preparing to take water samples from a creek for analysis back in the lab.

A vast accumulation of knowledge in the field of life sciences coupled with a new general awareness of ecology, pollution and the need for research were major motivating factors leading to the formulation of Biological Sciences Technology in 1967.

Designed initially to fill a need in the universities for trained technicians, Biological Sciences today encompasses virtually every major life science incorporating into a two year program, a full and varied biological background, and the student's choice of specialization in research, pollution or the ecological sciences.

As markets for the biological technician expand and change, this technology anticipates corresponding flexibility, considering introduction of a less demanding one year program in animal care, and presently undergoing a re-vamping of the ecological sciences curriculum, which will have full option status this fall.

The graduate is prepared to depend on his own resources when the need arises, yet has a working knowledge of sophisticated equipment and methods. For this reason, graduates find employment in a wide spectrum of situations, including Fish and

Wildlife, The Canadian Wildlife Service, Dept. of National Defense (Suffield), University of Alberta, Department of Fisheries (Canada), Dept. of Agriculture, a number of industrial concerns and many others.

POLLUTION OPTION

Global pollution is a problem which ultimately affects everyone. One of the most serious aspects of global pollution is the lack of data concerning source, interactions, dispersion and toxicity of pollutants within the ecosystem. Trained personnel are needed to monitor pollutants and to aid in the study of the effects of pollutants on the quality of life.

Students learn to determine the toxic effects of pollutants on the various components of the ecosystem, based upon pollutant measurements they have made. Lectures and labs concerning air, water and bio-pollution are supplemented by numerous field trips throughout the year which stress sampling techniques and field methods, and introduce the student to the improvisation so often necessary in applying theory to practice.

Seminars encourage the student to discuss Pollution Technology not only as a new and



AERIAL PHOTO INTERPRETATION — Students are being given a field exercise related to wildlife surveys and habitat management using aerial photographs.

SCIENCES



WILDLIFE DATA COLLECTION — Techniques and procedures on wildlife management in National Parks is just one of many topics discussed during the field Ecology Seminar in Banff National Park. Shown here is the technique employed by the parks to collect vital statistics from a drugged Black Bear.



INSTRUMENTAL BIOLOGY — Students in the Laboratory and Research Option practice techniques in instrumental calibration. Above, students are measuring the blood pressure of a rat.

challenging field of science, but as an important influence on the socio-economic structure complex of the world as well.

ECOLOGICAL SCIENCES OPTION

The Ecological Sciences option trains Fish and Wildlife technicians, enforcement officers, park wardens, land use planning technicians, and support staff to interpretive programs and recreational agencies. The curriculum is designed to avoid specialization in any one field of natural resources, and gives a broad environmental and ecological background. Where possible, special projects are co-ordinated with related agencies, so the student may become involved with job-like situations. Such incidents have included working on Wildlife checking stations, fish scale aging projects, bottom faunal analyses used in limnological surveys, scat analyses for wolf and bear research projects, and several others.

LABORATORY AND RESEARCH OPTION

Physiology, or the study of organisms as living systems, is an area of great importance to the laboratory and research oriented student. While field work is not

excluded, emphasis in this option is placed upon the principles of modern instrumental biology.

The calibration, use and maintenance of sensitive electronic equipment in obtaining accurate results, and an understanding of the transducers that change living impulses to readable data are of primary concern to the research student. He will study pre-operative and post-operative technique, general animal care, the chemical analysis of body fluids, the structure and functions of tissues, organs and systems, and will utilize the background knowledge of these and other subjects in a research project of his choice.

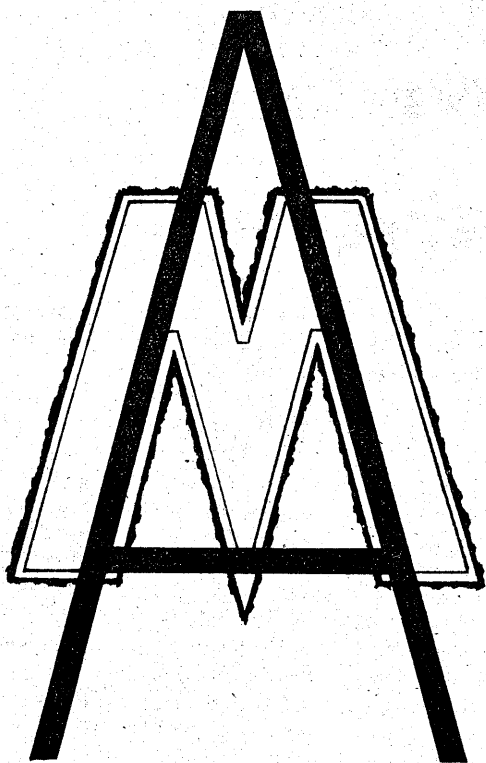
Employment opportunities may be found in defense research, biomedical laboratories, medical schools and other research stations in all levels of government.

As with the other options, Lab and Research does not attempt to specialize the student to the point where he can perform only in the area of his interest, but emphasizes that area in anticipation of satisfying employer and employee, and supplying maximal employment opportunities to the graduate.



IMPROVISATION — Field work is never quite as simple as it sounds in the book. This manifold was improvised for collecting air samples for pollution analysis.

Marketing Administration



MARKETING, a two year program at NAIT, is designed to guide the prospective graduate in any activities dealing with the marketing of goods and services.

After students graduate from any one of the second year options they may find careers in retailing, merchandising, professional selling advertising (both

media and agency), public relations work, market research plus a variety of other marketing positions. Students may combine all of the special teachings that they receive and start businesses of their own. In fact, this is being done by many Marketing Administration graduates.

The Marketing Administration

has progressed and grown with the school. Enrollment in second year alone has doubled during the 1971/72 year!

The first year program in Marketing Administration Technology is a study of business theory and application to provide the student with a general background of knowledge and skills that can be applied to numerous occupations.

OPTIONS:

The second year provides the student with an interesting choice of careers to choose from.

ADVERTISING:

This option prepares the student for a challenging career working for radio, T.V., newspapers, or agencies. The student learns to design complete advertising campaigns from start to finish.

SALES:

The sales option prepares the student for a career in sales, sales promotion, sales management, and public relations. To acquaint the student with actual working conditions; tours, labs, field research assignments and seminars are undertaken.

MARKETING:

This is a new option just introduced into the technology this term and is receiving favorable reaction from both students and administration. This option was introduced because of the definite need for marketing graduates who have a broad knowledge of marketing and who have

an appreciation for the analytical or scientific approach to problem solving.

Students that graduate from the marketing option find jobs in varied fields because of their general training or more specifically in Marketing departments of large companies, service industries, service departments of large companies, industrial marketing companies and transportation companies.

MERCHANDISING:

Merchandising constitutes a major part of the total marketing process. In this option the students are thoroughly grounded in the principles and practices of modern merchandising both from the theoretical and practical approach. For students willing to work there are many op-

portunities for employment because of the rapid growth in the retail and industrial merchandising fields.

"NAIT IS GREAT" "MARKETING ADMINISTRATION IS GREAT" but it requires a lot of hard work on the part of the student who intends to mould out a career around one of the second year options just described.

OPEN HOUSE is designed each year to show you the prospective student, as well as to show prospective employers what they can do. We invite you to join us in the Tower Building at Room T410 where we can get into some real heavy conversation on what marketing is all about.

Accounting and Financial Administration

TWO YEAR PROGRAM

The acquisition and control of financial resources, and the processing and manipulation of information relating to management's stewardship of those resources continues to assume greater emphasis and importance as technology changes and newer management techniques are developed. Administrators of industrial and financial organizations are ever alert to the need for staff with specific training in these areas, proven by excellent employment opportunities for graduates in recent years.

During the first year course, common for all business students, the objective is to bring the student to an awareness of the structure and purposes of organizations, of accounting as an information system within the milieu of institutional planning and control, of the economic forces surrounding the firm, of the legal aspects of business decisions, and of the importances of clear, unambiguous communication of plans and information within the organization.

The objective in the second year is to provide the student with some of the tools of quantitative analysis, with an understanding of computers in their role of processing and manipulating data, with training in critical analysis of financial statements, with a good knowledge of underlying concepts in related areas of financial administration. The training is much more specific and detailed than in the first year but embodying the decision-making processes involved in organizational planning and control.

SECOND YEAR OPTIONS

Accounting

Common to all business is the use of accounting in the provision of relevant economic information as the basis for decision-making. Students will be exposed to the basic concepts but will receive sufficient practise in all procedural aspects to enable

them to apply their knowledge of accounting on graduation.

Job opportunities in accounting are plentiful, with careers as accountants, internal auditors, technicians, controllers, cost analysts and/or related fields. Upon completion of this option with the requisite standing, students may be granted advanced standing in the R.I.A. or C.G.A. program.

Banking Administration

Students continue to expand their knowledge of business through a variety of specialized courses. The operation of a simulated banking office provides opportunities to practice administrative techniques necessary for successful branch administration.

Graduates find rewarding career opportunities with banks, credit unions, finance companies and trust companies. As management trainees, they work in such areas as administration, financial marketing, investments, and loaning. Rate of advancement is based upon individual initiative, with the possibility of branching management as early as three years after graduation.

Financial Management

A survey of courses offered in this concentration will reveal that they have been carefully selected to give the student a sound basic understanding of the principles and practices in the operation of financial institutions, money and capital markets, and the acquisition and control of financed resources, all necessary for the graduate to be competent in the areas of individual and business investment, industrial and commercial lending, etc.

Graduates from this program will normally pursue careers in loaning and investment management as financial trainees, analysts, etc., in finance or credit departments of business firms, banks, trust and insurance companies, stock brokerage firms, real estate organizations and various government agencies.

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For the taste of your life - enjoy the taste of Coca-Cola.
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NOTE

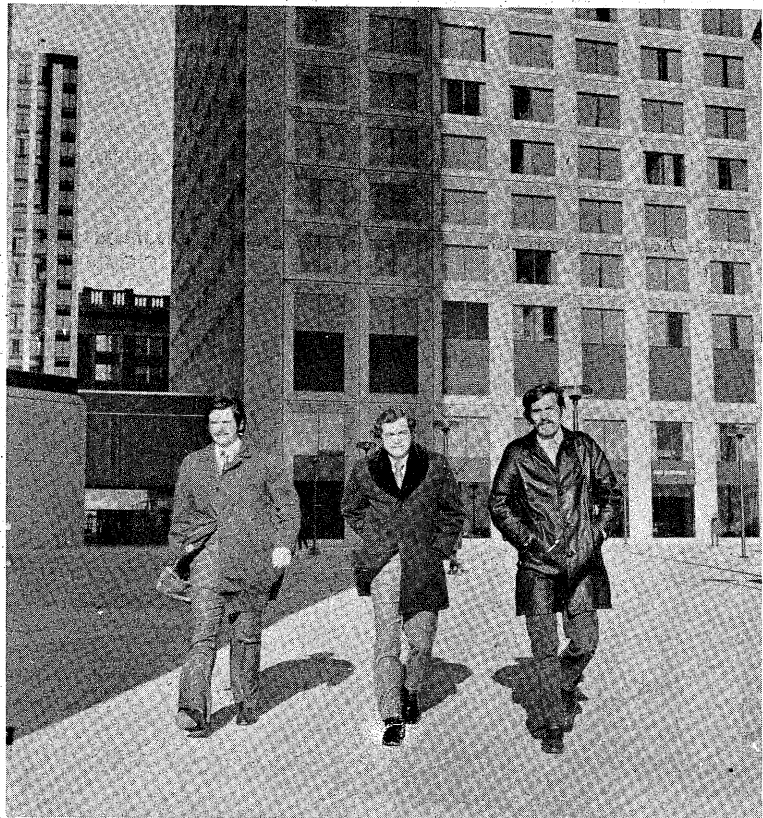
Second year students specialize by enrolling in one of the options described in the following programs:

- Accounting and Financial Administration.
- Administrative Management.
- Marketing Administration.

Selection of an option should correspond to the student's aptitude and interest.

NOTE 1. Administrative Management, Accounting and Financial Administration and Marketing Administration offer identical first year programs. Therefore students may select any option offered by these programs.

2. Students with an A or B standing in Accounting 30 may write an examination to obtain exemption from Accounting B-106.
3. It is strongly recommended that students attain a working knowledge of typewriting and operation of commonly used business machines.
4. Grade XI or XII math an asset.



**business
administration
society**

MANAGEMENT

TWO YEAR PROGRAM

Business management and administrative methods have recently advanced as rapidly as those of the technologies and sciences. These tools and the abilities to make decisions, leadership qualities, management fibre are in great demand by business and industry.

It is the objective of the Administrative Management program to equip students with the training and knowledge to succeed in today's highly competitive business community. The success of the program is reflected by the employers' demand for the graduates.

Since the program is only two years, it is feasible to continually update it with vital, practical course material. The selected course in the first year provide the student with the information needed to choose a specialized field for concentrated study in the second year. The selection should be geared to correspond with the student's aptitude and interest.

Among the innovative course material expansions planned for the immediate future is a course or second year option in Public Administration, which may be offered in the ensuing year.

SECOND YEAR OPTION Administrative Management

Objective management and planning talents are among the most valuable a graduate might possess. The Administrative Management graduate offers employers skills that have been developed through theory practical training in management control of organizations and people. The student's potential is realized through task oriented courses in Management Principles, Behavioral Sciences, Personnel and Quantitative Analysis as utilized in real-life applications. Students are trained to be professionally functional managers and administrators in Industry and Government.

Graduates find ready employment in general office, plant, sales, finance and marketing areas etc., initially and are pro-

moted to various management levels after short periods of orientation.

The Administrative Management program requires effort whatever option is chosen. Graduates are competing with graduates, in related courses, of Universities, and Junior Colleges that have three or four year programs. Since the 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.

The 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 in the Tower Building.

VISIT



**in the Alberta Telephone Tower
10020 - 100 Street**

Enjoy a panoramic look at Edmonton from the View Gallery.

Tour "Man & Telecommunication" — a fascinating historical and futuristic display tracing the development of methods of communication.

View Gallery Admission Fee — 50c.

For hours of operation and detailed information on free tours for school groups and youth organizations phone 425-3978 or 425-4384.



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10% Discount for NAIT Students and Staff

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MIKE DOBBERTHIEN

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CONGRATULATIONS N.A.I.T. STUDENTS ON YOUR OPEN HOUSE

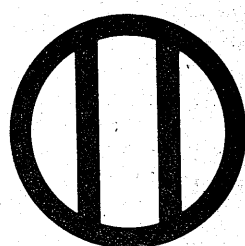
The Canadian Broadcasting Corporation wishes you outstanding success today, and in your future endeavors, as you make your valuable contributions to business, commerce, industry and to society.



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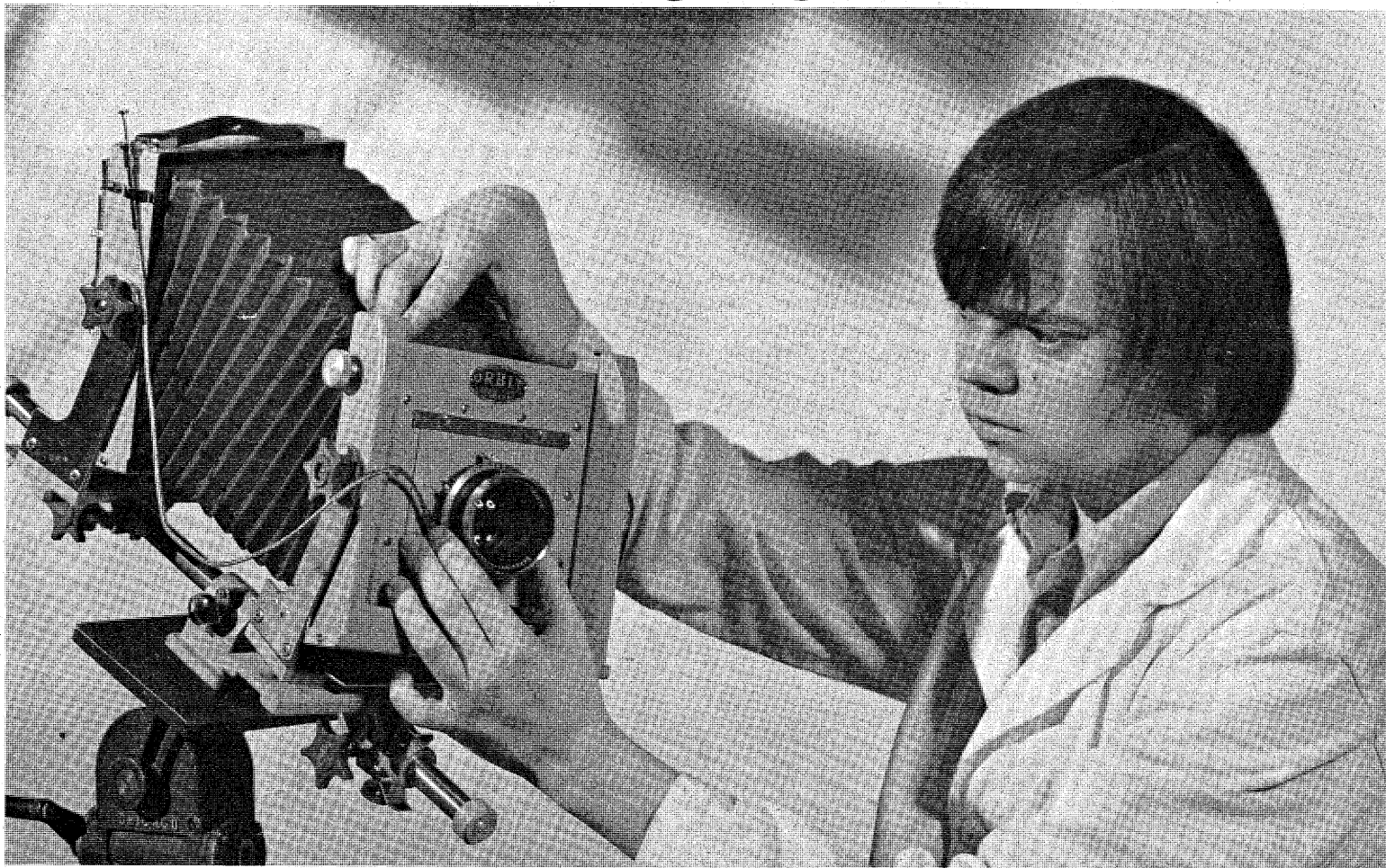
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Canadian Broadcasting Corporation, Edmonton, Alberta

PHOTOGRAPHY



In a small inconspicuous corner of H wing's basement, you'll find the most overlooked technology at NAIT. It consists of approximately fifty bright and intellectual students. Every one is a dedicated photographer and that's what it's all about.

They've decided it's time to show the world what they're made of at this year's open house. Featured will be displays, shows, and perhaps a few surprises. Color and Black & White displays this year should be the best ever. You're more than welcome to browse around and really look things over. Find out what a good photograph really takes.

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 dark-room work. For film this includes normal development of film, al-

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, stu-

dents take various service courses such as chemistry, physics, business, English, and audio-visual 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 instructors 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 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 for 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.

Come and see Alberta's future in the basement of H wing. Just for the sake of your own peace of mind, visit the photographic technology during open house at NAIT. They'll be ready for you.

CHEMISTRY What's It All About

Most people smile and look a little shocked when the students in the Chemical Technology say, "We are studying to be chemists". Generally, they are a little confused about what duties we actually perform in industry and now with the approach of Open House we of the Chemical Technology would like to let you know a little about us.

The first year Chemistry course generally gives the stu-

dents a background of the basic subjects that they may use in industry. Petroleum chemistry is one of the courses dealing with techniques used in the petroleum industry in Alberta. Due to the wealth of oil in Alberta, many students will be employed in this field.

Closely related to petroleum chemistry is Organic chemistry — a course which continues through three quarters — one

in the first year and two in the second. Its importance can be seen simply in the wide and varied applications in industry. "The Age of Plastics", a basic part of organic chemistry is only now having its greatest impact on Canadian industries.

The second major course, carried through three quarters of the second year, is Instrumental Chemical Analysis. In this course, hours are spent in the laboratory performing experiments on extremely expensive and delicate instruments along with such seemingly confusing tasks as infra-red spectroscopy, gas chromatography and atomic absorption analysis. This course prepares one for the highly mechanized chemistry laboratory of the future.

If you are still confused about what we do down in the "G" wing, come down during Open House and "Let Us Entertain You!"

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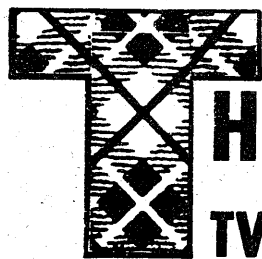
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ELECTRICAL

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 medical, science, space technology, food production and industrialization of our society but seldom correlate them all with one common ability of electrical energy. We tune advances serve to accelerate the demand for electrical energy and expand the opportunities for people trained in this field.

The electrical technologist receives a comprehensive training that will complement the specialization of his future employment in one of the many areas of opportunity to which electrical

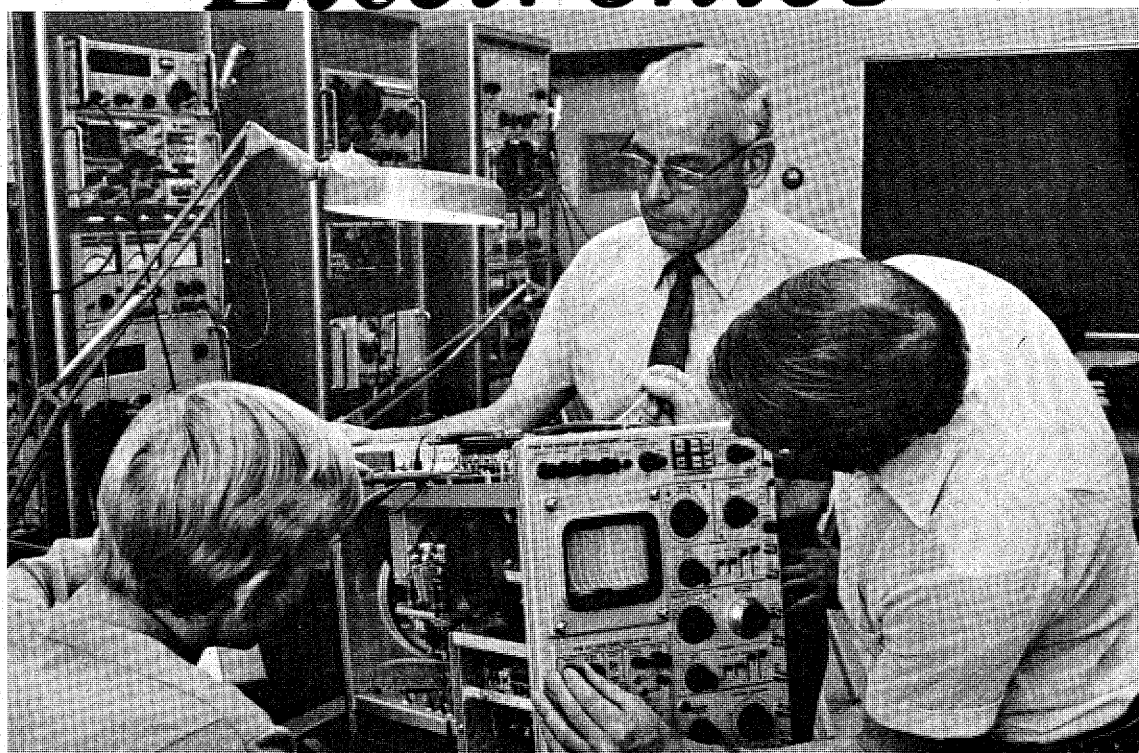
energy is a common factor.

Subjects on 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, controller, electronic power supplies, amplifiers, solid state and integrated circuits as applied to control functions and a continuation of applicable mathematics, physics and English. The final year subjects concentrate on industrial electronic control, switching and logic in units supervisory con-

trol, telemetering, protective relaying, commercial and industrial design problems and theory application of computer mathematics.

Educational prerequisites such as a high school diploma or equivalent with 50% or better in grade XII Mathematics 30, 32, 33, or 36 and 40% or better in grade XII Science (Physics preferred) are preferred to enter Electrical Technology. Although applicants having the 32 series in Electricity may be granted exemptions for some courses in Year 1. Also persons, who do not have the necessary prerequisites to enter the 2 Year Electrical courses can upgrade themselves by enrolling in the one year Pre-Technology Programme.

Electronics



A major purpose of NAIT Open House is to provide the prospective student with the opportunity to increase his or her knowledge of the facilities, the program content and requirements, and the opportunities which will be open to the successful graduate.

Information on the program is available in the NAIT Calendar, the Electronics Engineering Technology Brochure, and from Counselling personnel at NAIT and in many of Alberta's schools. During your Open House visit with us, you are invited to inspect our facilities, view the projects on display, and talk with the students and staff who are here to meet with you and to answer any questions which you may put forward.

This article will attempt to provide some insight into the employment opportunities which are open to the graduate Electronics Technologist. Graduates of past years are known to be employed by more than sixty different employers in Alberta and across Canada. These employers fall in the following general classifications: Oil-Gas and related industries; Manufacturing Industry; Transportation, Communica-

tions and other utilities; Wholesale and Retail Trade; Computers; Services to Business Management Education; Public Administration and Government Agencies.

General employment classifications require a wide range of individual knowledge, skills and personal attributes. Following the pattern of almost any type of electronic equipment from the original idea to the final application we find the electronics technologist working in the following areas:

1. Design, Research and Development. Working with engineers and scientists as a team member, the technologist will build, test, modify and develop new types of equipment.

2. Manufacturing. The technologist will be responsible for the maintenance and operation of electronic control systems which may perform much of the routine manufacturing process, and through a variety of sensing devices such as transducers and photoelectric detectors protects the automated system and ensures quality control. In less automated systems the technologist may perform a variety of

tests, inspection and alignment procedures.

3. Sales. The technologist may find employment in equipment and instrument sales, and in some industries as a customer service engineer.

4. Installation, Maintenance, Servicing and Operation. This area provides a variety of employment opportunities for the technologist. Generally he will be responsible for a program of preventive maintenance reinforced by emergency repair to provide maximum equipment serviceability and utilization.

The Electronics Technology program at NAIT is designed to provide a sound basic knowledge in the fundamentals of electricity and magnetism, of electronic circuits and circuit devices, of electronic units and their applications in a variety of electronic systems.

Electronics is a rapidly growing field of knowledge. The graduate electronic technologist has a background which will enable him or her, through self-study and on-the-job training, to keep up-to-date in his chosen area of employment for the foreseeable future.

EARTH E S O U R C E S

Until recently, most exploration technologists have been trained by government agencies, mining or petroleum companies. Many have lacked adequate knowledge and training in fundamental sciences, geophysics and geology. Increased exploration activity, using more sophisticated techniques, requires more and better exploration personnel. A greater range of more intricate geophysical equipment is being used. Computers are being employed to a greater extent and geological techniques are becoming more diverse and are used more intensively.

The location and proving of water, petroleum, coal, metallic and non-metallic deposits, upon which our economy is highly dependent and which is a prerequisite to developing technology, presents a tremendous challenge for today and the future. A field of varied and rewarding work is open to those trained in exploration technology.

Exploration techniques employ various disciplines. Geophysics, depending on the method, uses gravitational, magnetic, electrical, acoustic and radio-active properties, or a combination of these properties, to obtain information on geological conditions below the earth's surface. Geology employs ordinary visual and microscopic examination of minerals and rocks, core drilling, field and office mapping and theoretical principles of deposition of valuable constituents of

the earth's crust in the search for economic deposits. Geochemistry is employed to determine overall composition, abundance of trace elements, isotope characteristics and other factors useful in the search for deposits. Electronics is used to a great degree in geo-physical and geochemical equipment and in computers which analyze information derived geophysically or geologically. In most exploration

projects or surveys a combination of methods and disciplines is employed.

An exploration technologist, if he wishes, may enter allied areas of endeavor such as mining, petroleum production, oceanography, physical geography or mineral processing.

For the exploration technologist, adventure is near at hand. Work is over most of the surface of Canada, from Newfoundland

to Vancouver Island and from the 49th parallel to the Arctic Islands. It may be in rugged mountain country or on the flat prairies, on water or on land. Travel may be by canoe or airplane, horse, foot, or automobile. Yet much of the office work and data processing and interpretation takes place in the cities of the country. Foreign work is often available for those who might be inclined to go abroad.

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PRE TECHNOLOGY

Each year a large number of people wanting a technical education do not have the entrance requirements of the technologies at NAIT. Consequently, a one-year upgrading program was initiated in 1968 whereby adult students could raise their academic background sufficiently to enter a technology. In 1971 a second one-year program was started to accommodate those high school students that needed courses in Mathematics, Physics, English, or Chemistry to bring them to the entrance requirements of the technologies. In the 72-73 academic year the two programs mentioned above will be combined with a third under the name PRE TECHNOLOGY.

The objective of Pre Technology is to upgrade the academic backgrounds of the prospective students to a level which will provide them with a good opportunity for success in the technology of their choice. This will be done by one of three programs which have been designed to accommodate a variety of backgrounds, learning rates, and abilities.

The students who have completed the previous Adult Pre Technology course have achieved a high success rate upon entering a technology. It is expected that the new Pre Technology course will have a similar success rate.

If you are interested in a NAIT technology but lack the entrance requirements, think about Pre Technology. The only entrance requirement is age 17.

Upon completion of Pre Technology a student may enter one of the following technology areas:

1. Air Conditioning
2. Architectural
3. Building Construction
4. Chemical
5. Civil
6. Drafting
7. Earth Resources
8. Electrical
9. Electronic
10. Food
11. Gas
12. Heavy Duty
13. Industrial Production
14. Instrumentation
15. Materials
16. Plastics
17. Surveying
18. Telecommunications

Entrance into a technology not listed above may be possible in special cases.

What about the details of Pre Technology? These may be obtained from the NAIT registrar, write:

The Registrar
Northern Alberta
Institute of Technology
11762 - 106 Street
Edmonton 18, Alberta
or phone:
479-8471

However, a general description of Pre Technology would break it into three routes:

1. **Program A.** This is designed for the student who has been out of school for a number of years and/or has had only marginal success in Math, Sciences, and English. (Previous Adult Pre Technology Program).

2. **Program B.** This is intended for the student who has a reasonable academic background but still lacks most of the Year 1 entrance requirements. (Previous Pre Technology Program).

3. **Program C.** This is designed for the student who requires the equivalent of one or two specific Grade 12 subjects for Year 1 entrance. These courses may be offered during the evenings as well as normal daytime hours.

The main courses of the Pre Technology year are:

1. **Mathematics.** The Math course is designed to give the student the necessary fundamental mathematical knowledge which he will need to be successful in the study of his technology.

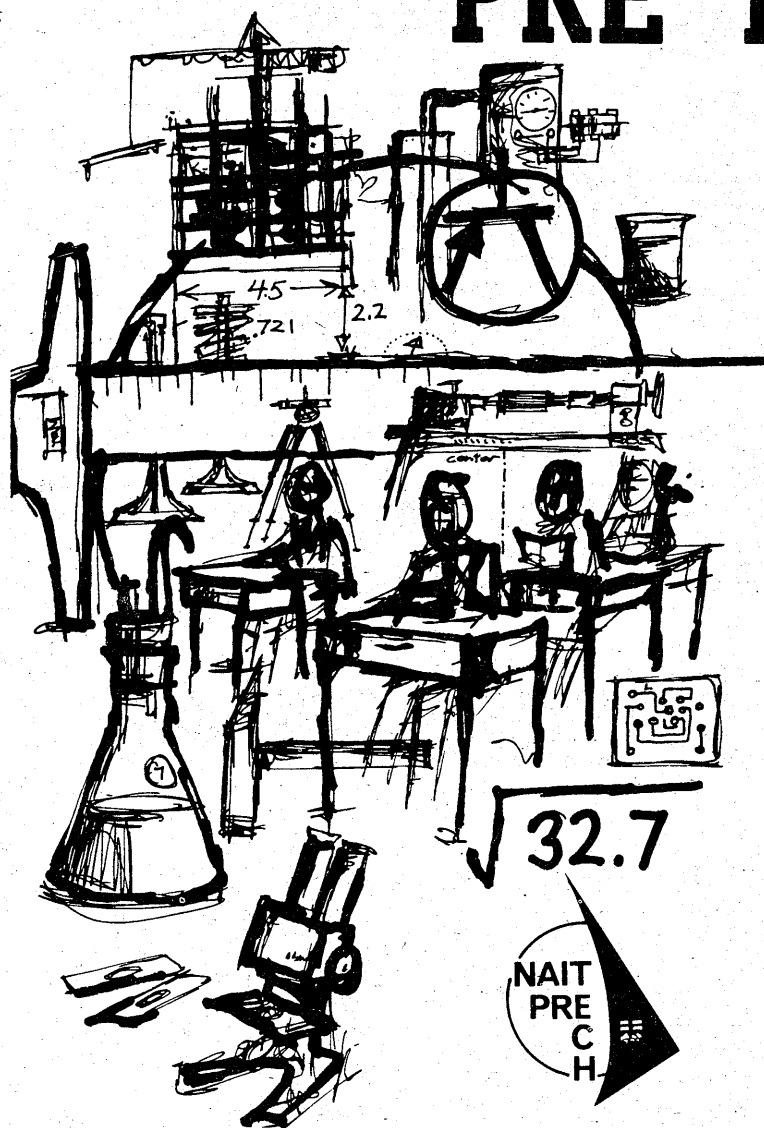
2. **Physics.** The objective of the Physics course is to help the student to develop his ability in using and understanding the principles of Physics.

3. **Effective Communications.** This course aids the student to increase his ability in speaking, listening, reading, and writing.

4. **Chemistry.** This is compulsory in the first quarter and provides a basic introduction to Chemistry theory and practice.

5. **Orientation.** This portion of the program provides an opportunity for the students to investigate the technologies with regards to course content, laboratory facilities, equipment, graduate salaries, and job opportunities.

6. **Options.** These are available in the second and third quarters and consists of Electricity - Electronics, Chemistry, Machine Shop, Drafting, Earth Sciences, Materials, and Building Construction. These options offer the students a chance to investigate the technologies in more detail to determine if they have an interest in that area.



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As a result, a strong demand exists for women proficient in handling cash and has created many opportunities in banking and general business for graduates of this program. Students

gain experience in a simulated bank laboratory operation, processing entries similar to those of a branch office. Students are given the opportunity to develop responsibility by assuming

various duties from that of teller to "branch" supervision.

Emphasis is placed on the development of proficiency and accuracy in handling cash and related office procedures.

A recent development is the use of the computer in assisting students to better understand the latest methods being employed by Financial Institutions in processing entries to customer accounts. Students become directly involved in this aspect of the program by preparing their own input data.

Graduates may find employment opportunities in such positions as bank teller or related duties, and also in office work, cash control, and in many other areas of general business.

Starting salaries for graduates, range between \$325 and \$350 per month.

If you have a desire to give pleasant, courteous service; to work quickly and accurately, and to get along with people, come visit us in T-413 and see what it's like. We welcome any questions you may have.



SECRETARIAL

Qualified stenographers and secretaries are always in demand. They are employed in industry, government and services such as medical, legal, financial and insurance offices. The skills the employer desires vary with the office situation, so, NAIT Secretarial Technology offers two types of programs.

One-Year Certificate

The duties of a stenographer center around competence in typing, and either shorthand or transcription from dictating equipment.

The course in business communications covers effective methods of reading, writing letters and reports and skills in speaking to people. Secretarial procedures enable performance of related duties such as keeping clerical records, filing, operating business machines and making telephone arrangements. Mathematics and Accounting enable the stenographer to maintain a basic accounting system.

Two-Year Diploma

The second year is designed to prepare students to relieve the busy executive of many administrative details.

Organizational Behavior provides criteria for making decisions involving people.

Courses such as Data Systems, Medical Terminology, Business Law and Legal Secretarial Procedures acquaint the student with knowledge and procedures in specialized fields. Also many of these courses are coordinated with the shorthand and typing so that the student learns related vocabulary and shorthand outlines and also types forms and documents.

This implies that when a student graduates with a Diploma in Applied Arts from Secretarial Technology, she's versatile and eligible to work in a number of challenging and different positions.

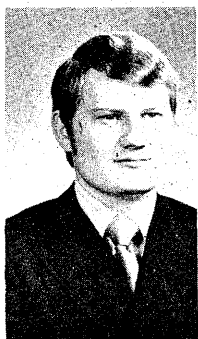
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