

# Open House



NORTHERN ALBERTA INSTITUTE  
OF TECHNOLOGY

11762 - 106 Street  
Edmonton, Alberta  
T5G 2R1

**March 17-18, 1978**  
**Friday 9a.m.-9p.m.**  
**Saturday 9a.m.-6p.m.**



# PRESIDENT CARTER WELCOMES YOU TO OPEN HOUSE '78



WELCOME to NAIT's Open House 1978!

One of the primary purposes of Open House is to acquaint prospective students with the wide choice of career programs that exist at NAIT in Business, Industrial and Technology areas.

Information booths have been set up to provide detailed information on courses, or if you wish, please feel free to ask questions of the students and staff who are tending the displays. Our students are proud of NAIT and will be happy to give you their point of view on the programs in which they are enrolled.

It is they, also, who have set up the displays that you see today.

If you have attended NAIT's Open House in previous years, you will note that NAIT's campus has experienced a considerable size increase over the last year with the addition of Plaza 1 and 11 (formally Park Plaza Shopping Centre, East of the main campus). The very popular Architectural, Building Construction, Drafting, Surveying and Civil Engineering Technology displays will be located in Plaza 11 (Simpson Sears Building). Information on the other programs is contained in this issue of the NUGGET.

Indications are that we will have unprecedented number of visitors from High Schools. We will measure Open House '78's success by the extent to which this event has helped you in making a career decision.

In keeping with our slogan "NAIT Key To A Career", we hope you have a good day and enjoy NAIT Open House 1978.

Sincerely,

*G.W. Carter*  
G.W. Carter  
President --NAIT  
Administration

# Student Association President's Message



WELCOME to NAIT. your presence here makes you a part of Open House '78. Spending some time asking questions at the many interesting displays will give you a good idea of the courses/careers offered here.

Our school is more career-oriented and people oriented than most post-secondary institutions. One's education here consists of more than just classes. A great variety of extra-curricular activities are available to NAIT students. Time spent meeting working and playing with other people will form an invaluable part of your education.

NAIT can provide you with a well-rounded education which will leave you well equipped to deal with a changing world.

The future for Alberta is bright, and NAIT is an important part of Alberta's Future. Have an enjoyable time at our Open House and then decide if there is room for NAIT in your future.

Greg Ilesiuk  
President, NAITSA.

## Students Denied Use of Tower Lounge For Pub Time

At the beginning of our term the Student Executive promised to pursue the acquisition of the tower lounge as a possible site for a pub time. We've investigated all the areas for possible approval. The City of Edmonton, A.L.C.B., Firemarshal Dept. and the N.A.I.T. Executive Council headed by Mr. Carter. The decision to turn down the use of the tower lounge for pub times was made by the NAIT Executive Council for the following reasons;

1. Limited occupancy of 160 people
2. Additional Exit and Emer-

gency lights would have to be installed.

3. The cost of lighting additions
4. Extra caretaking and maintenance costs
5. Security problems for other floors
6. Safety hazards
7. Location of rest rooms
8. The onus of responsibility placed on NAITSA and NAIT in the event of an accident to a patron.

It was generally felt between NAITSA and NAIT, that because of the inconveniences and risks are not commensurate with the benefit that would only accrue to such a small percentage of the total student body, the use of the tower lounge was rejected.

In regards to this decision the NAITSA Executive cannot force the use of the tower lounge for the students body in the near future. Until the student body can obtain additional sources of income to cover the cost of renovating the tower lounge we will never be able to obtain access to it for any functions. Maybe when NAIT EXPANDS IN THE FUTURE

THE Student Association could obtain a building of its own like that of the U of A, but until then the prospect of any functions in the tower lounge are extremely remote.

Rob Laliberte  
Vice-Pres.

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# NAIT NUGGET

**EDITOR** Rod Boyce

**ENTERTAINMENT**  
Rob Fralick

**FREELANCE**  
Frank Glutton

**SPORTS**  
Rob Niel

**ADVERTISING**  
Rob Hackney

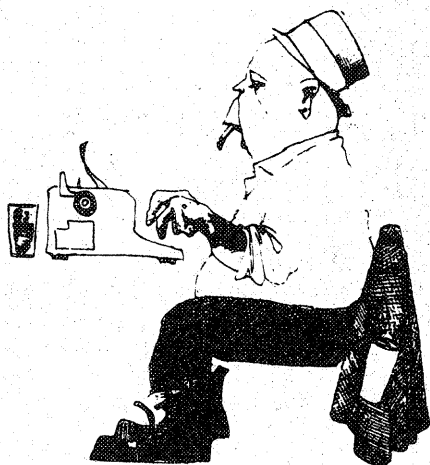
**TYPESETTING**  
Bruce Mottershead

**LAYOUT**  
Don Pazder

**PHOTOGRAPHY**  
Dale Henderson  
The Yearbook

**GRAPHICS**  
Rick Pagacz

## Editorial



There comes a time in everyones life in which they are forced to make decisions. Some to them are of the every day routine variety and others, the major ones, are of the type that once their made will probably change your life.

One of the major decision a person has to make in life is whether to further their education or not. This has to be one of lifes biggest if not the most immensive of all. Once a person has finished their high school, the idea of going out and covering the world appeals very strongly in most peoples minds. I know it does in mine!

I think that a person gets a much better perception on life if he/she goes out and explores, tries out their ideas and just spends a year or two out there in the real world. HOWEVER, once you've gone out and seen the world and realized it's not as easy to conquer as you thought, the

decision you know have to make is whether to come to NAIT or go off to the university. Going back for post-secondary education means a lot of things for the individual. Time, loss of income for two years, lots of studying, pressure to pass. When you get your diploma, it means a lot of things as well. You are assured of a better job, higher income, and satisfaction, satisfaction knowing that you have achieved something, because lets face it going to a post-secondary institute is no small things, at least if you want to graduate with a diploma.

The biggest reason that NAIT puts on their Open House every year is to show the prospective student that yes, NAIT is the best place to further to show the imminent student that they should become a part of their tech if they come to NAIT the next year. Open House is put on to show the visitors that NAIT is one of the best facilitated campuses

in the country. Qualified instructors in most of the programs, theres a games room, swimming pool, tennis courts, jogging track, squash courts, racquetball courts, tabletennis, football field, weight room, saunas, a hockey rink, two gyms and a training room. theres a whole series of athletic teams that you can become part of if your good enough, cabarets and pubtimes that are put on within and outside of the school. Most techs have their own meetings so that you could become president or something in your tech. Theres a formal Student Association that represents the whole school that you can become part of if your marks are high enough. We hold a Shinerama competition every year as well as Queen Week, a Miss Freshette competition and Open House. Theres a lot to do besides being a student if you so wish. Theres even the NUGGET!

I suppose the major advantage of a college education as opposed to a university education is the time and money factor. For instance, a Business Administration diploma that you get from NAIT is more readily accepted by a number of potential employees than a Bachelor of Commerce diploma that yo would receive from the university. Besides that, there are a number of programs here that allow you to transfer to the university system if you so desire. Last September, NAIT raised the most money in all of Canada towards Shinerama. Shinerama, if your not familiar what that is, is shining shoes for the people in Edmonton and their contributions go towards Cystic Fibrosis. Its the little things like that, that help to make this college stand out as one of the most respected in the country.

So, if you feel that your not ready for the working world, or don't like your present job, then come to NAIT and further your education and get the king of job you'd like to do and spend 2 of your best years of your life and when you leave here afterwards you will be healthy educated and satisfied.

### TRAVEL

Reduced Air-Fare to Hong Kong, Manila, Singapore, interested persons please phone:

475-1109  
Patrick Chan

STAFF, STUDENTS AND THE TOWER BUILDING DURING

### OPEN HOUSE

Again this year, the Tower Building will be closed to the general public during Open House. This was tried last year, it worked, and will in effect this year.

Getting INTO the Tower Building may be a problem if you don't give it a little thought. Nobody in their right mind would argue that there isn't a need for security during Open House. With the hundreds of thousands of dollars worth of equipment in the buildings, there will have to be control over who has access to the building and this is where a little thought can help.

There will be a security system to control access to the building. Nobody argues that you may need to reach something in your locker, that you may need something from you instructional area for your display, but please, be prepared to identify yourself to the security people, and be prepared to establish why you need to get into the Tower Building. A NAIT I.D. card will do for identification.

With a spirit of friendly cooperation on everyones part, we won't have a problem.

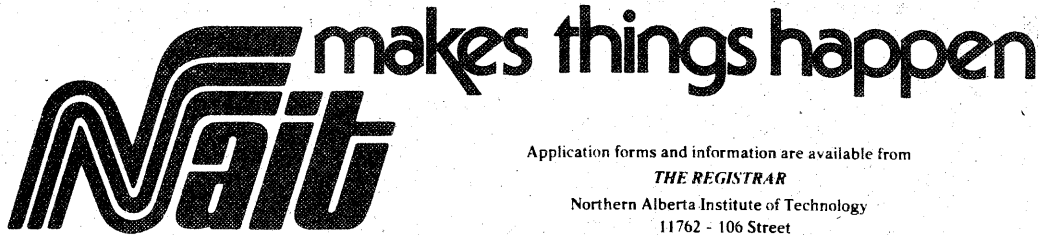
### YOU COULD CALL IT A BONUS

By way of adding a little incentive to the effort put forth in Open House displays, special arrangements have been made with the Suds Fairy.

For the technology or program doing the best job of telling their story to the visiting public during Open House '78, the Suds Fairy will visit their first off-campus function leaving a suitable bottled tribute. The bottles will contain an amber colored fluid which tends to foam when poured into a glass and which is normally obtained through Alberta Liquor Control Board outlets.

A panel of judges, working anonymously, will tour the exhibits during Open House. They will be judging on the basis of effectiveness of display, creative use of the space available, effort on the part of the students and general enthusiasm for Open House.

All this, and you don't even have to leave a tooth under your pillow.



78~79

Application forms and information are available from

## THE REGISTRAR

Northern Alberta Institute of Technology

11762 - 106 Street

Edmonton, Alberta

T5G 2R1

Telephone - 477 - 4355

## APPLICATION PERIOD

MI — Multiple Intakes, apply anytime  
January 1st. and thereafter for all programs  
starting in September

## REMARKS

+ = Required Subjects

CR — Credit = 40% or better

| GRADE XI (67 CREDITS)   |                     |    | GRADE XI MATH 200R 22 OR 23  |    |   |
|---|---------------------|----|--|----|---|
| GRADE X (35 CREDITS)  |                     |    | HIGH SCHOOL DIPLOMA OR EQUIVALENT                                  |    |   |
| LENGTH OF PROGRAM — YEAR, MONTH, WEEK   |                     |    | GRADE XII MATH 30 OR 32 OR 33 OR 36                                |    |   |
| PROGRAMS  |                     |    | GRADE XII SCIENCE - PHYSICS (PREFERRED)<br>OR CHEMISTRY OR BIOLOGY |    |   |
| Air Conditioning & Refrigeration Eng. Technology  | 2                   |    | 50   |    | Grade XII Physics — Desirable   |
| Architectural Technology  | 2                   |    | 50   | CR |   |
| Architecture<br>Interior Design<br>Landscaping  | Second Year Options |    |  |    | Proposed: Urban and Rural Planning  |
| Biological Sciences Technology  | 2                   |    |  |    | + Grade XI or XII Biology   |
| Ecological Sciences<br>Laboratory & Research<br>Pollution & Environmental Control           | Second Year Options |    |  |    | Grade XI Math & Chemistry — Desirable   |
| Building Construction Engineering Technology  | 2                   |    | 50   |    | Grade XII Physics — Desirable   |
| Business Administration   | 2                   |    |  |    | Grade XI Math — Desirable   |
| Accounting & Finance<br>Administrative Management<br>Marketing Management                   | Second Year Options |    |  |    |   |
| Chemical Technology   | 2                   |    | CR   |    | + Grade XII Chemistry — 50%   |
| Civil Engineering Technology  | 2                   |    | 50   | CR |   |
| Combined Lab. & X-Ray Technician (twice yearly)   | MI                  | 1  | CR   |    | + Grade XII Chemistry (twice yearly intake)   |
| Commercial Baking   | 1                   |    |  |    | + Grade X Math  |
| Commercial Cooking (five times yearly)  | MI                  | 2  |  |    | + Grade X Math  |
| Commercial Signwriting  | 1                   |    |  |    | + 50% XI Art, Drafting or Experience  |
| Computer Systems Technology   | 2                   |    | 50   |    |   |
| Court Reporting Technology  | 2                   |    |  |    | 3 Grade XII Matric Subjects (60% average) plus one Non Matric Subject                                 |
| Dental Assisting  | 1                   |    |  |    | + Grade XI Biology & Chemistry  |
| Dental Laboratory Technology  | 2                   |    |  |    | Grade XI Math & Chemistry or Biology — Desirable  |
| Dental Mechanic Technology  | 2                   |    |  |    | Grade XI Math & Chemistry or biology — Desirable  |
| Dietary Technology  | 2                   |    | 50   |    | or Math 25 plus Chemistry 20  |
| Earth Resources   | 2                   |    | 50   | CR |   |
| Coal Resources Technology<br>Mineral Resources Technology<br>Petroleum Resources Technology | Second Year Options |    |  |    |   |
| Electrical Engineering Technology   | 2                   |    | 50   | CR |   |
| Electronics Engineering Technology  | 2                   |    | 50   | CR |   |
| Electronics Technician  | 1                   |    | 50   |    | Grade XI Physics — Desirable  |
| Engineering Design & Drafting Technology  | 2                   |    | 50   | CR |   |
| Forest Technology   | 2                   |    | 50   |    | + XI or XII Biology — Credit  |
| Forestry<br>Wildlife — Fisheries — Recreation   | Second Year Options |    |  |    |   |
| Health Record Technology  | 2                   |    |  |    | 4 Grade XII Matric Subjects (60% average) plus one other XII Subject                                  |
| Hydrocarbon Engineering Technology  | 2                   |    | 50   |    | + Grade XII Chemistry — Credit  |
| Industrial Food Technology  | 2                   |    | CR   |    | + Grade XI Chemistry — 50% Grade XI Physics & Biology — Desirable                                     |
| Industrial Heavy Equipment Technology   | 2                   |    | 50   |    | Grade XI Physics — Desirable  |
| Instrumentation Engineering Technology  | 2                   |    | 50   | CR |   |
| Ladies' Hairstyling (four times yearly)   | MI                  | 1  |  |    |   |
| Materials Engineering Technology  | 2                   |    | 50   | CR |   |
| Mechanical — Industrial Engineering Technology  | 2                   |    | 50   | CR |   |
| Medical Dicta—Typist  | 1                   |    |  |    | Grade XI Biology & Typing — Desirable   |
| Medical Laboratory Technology (apply at N.A.I.T.)   | 2                   |    |  |    | 5 Grade XII including English 30, Math 30, Chemistry 30   |
| Medical X-Ray Technology (contact hospitals for application)                                | 2                   |    |  |    | Matric Subjects including English 30, Math 30, any 2 of Chem. 30<br>Physics 30, Biology 30, & 1 other |
| Mens' Hairstyling (four times yearly)   | MI                  | 1  |  |    |   |
| Millwork & Carpentry  | 1                   |    |  |    |   |
| Mixology (seven times yearly)   | MI                  | 5W |  |    | Age — 18 or over  |
| Photographic Technology   | 2                   |    | 50   |    | Grade XI Chemistry — Desirable  |
| Plastics Engineering Technology   | 2                   |    |  | 50 | CR  |
| Power Engineering Technician — 4th Class (twice yearly)                                     | MI                  | 5M |  |    | + Grade X English, Math, Physics — 50% or better  |
| Power Engineering Technician — 3rd Class (twice yearly)                                     | MI                  | 3M |  |    | + 4th Class Certificate   |
| Pre Technology (yearly & every month)   | MI                  |    |  |    | Interview Required — Upgrading for most Technology Programs   |
| Radio & Television Arts (three times yearly)  | 2                   |    |  |    | + Grade XII English — 50  |
| Respiratory Technology (contact hospitals for application)                                  | 2                   |    | 50   |    | + Grade XI Physics (preferred), Chemistry or biology — 50   |
| Retail Meatcutting (twice yearly)   | 5M                  |    |  |    |   |
| Secretarial Technology  | 1-2                 |    |  |    | Some High School Subject Articulation Possible  |
| Surveying Technology (commences December)   | 2                   |    | 50   | CR | Three — 6 month sessions (December to June)   |
| Tailoring Technician  | 1                   |    |  |    | Grade XI Preferred  |
| Telecommunications Technology (three times yearly)  | MI                  | 2  |  | 50 | CR  |
| Teller Training & General Business  | 1                   |    |  |    |   |



## Assistants Corner

### On The Side Lines

It is hard to say whether this week will be as exciting as last. Of course the degree of activity depends totatally on the individual. But in the midst of last week, Edmonton was treated with the presence of Canada's most controversial political figure, Prime Minister, Pierre Trudeau!

Thinking that if I were to attend Pierre Trudeau's address to the public at the Jubilee Auditorium I might not only learn something, out, at the same time develop an nteresting subject for this weeks column.

Instead I arrived too late (a little after 6:00 P.M.). Not only was I late but so were a couple of thousand others. A suggestion was made by another bystander to form a union of late comers and strom the doors upon Prime Minister Trudeau's arrival. But appathy prevailed and the suggestion of a union never material-

ized.

After scoring flights of stairs from the basement to the highest level of the Jubilee I ceased only to find that not only was the auditorium itself full, but so were all the basement speaking rooms which were being utilized for closed circuit television! Simply speaking the "Jub" was packed! Something I'm sure many rock bands would adore to see at their own shows.

So I waited outside for the Prime Minister to arrive escorted by his fleet of City Police and City Hall bigshots! But when he did arrive the crowd went extatic. Women were screaming and babies were whinning and men were just calm, coo, and collective. Ther was a division of "cub" scouts present to greet the Prime Minister and as the P.M. passed each one he gave each cub a pat on the head! There was also a group of "girl guides" present and as the P.M. passed this lot he gave each girl a pat on the bottom! Of course the P.M. was surrounded by many Police so that no ne could pat him on the

bottom, except for the Chief of Police (situated immediately behind the Prime Minister) who did so frequently.

I left that crowd shortly after the P.M. entered the auditorium. While walking away from the auditorium I came upon young militants parading around in a circular flow screaming obscurities into the air. It wasn't until I had listened and watched this hostile verble union for sometime that I realized what they were screaming about! Something about "Make the rich pay"! and "Up with Socialism". Funny though all "cat calls" were first announced by a female dictator, of some sort, and were repeated by the rest of the group.

Well it's not strange that this group could only hold my attention for a short period until I had to leave.

I walked over to the Students union Building at the U of A and once stepping inside the complex itself I was greeted and surprised by a friend of mine who is running for a position in the Students Union.

Taking place in the building was a Commerce "bash" which I attended with this fellow and others. We wallowed and swallowed in the beer that was offered inside. Right at the peak of the evening a "Gong" Show began. Of course things started to pick up immediately. One fellow pranced about the stage to an Ol' Roy Rogers tune and pretended he was "Silver" the horse. He was fine after a couple of cohosts took him from the stage and led him to his stables. Another fella got up and did a musical number. He sang a soulful song written by "Blue Suede Shoes" with his feet in his mouth. But the most unbelievable act of the evening was when a grossly overweight and bearded women got up on stage and danced to an old "Mama Cass" tune wearing a string bathing suit and eating a ham and cheese sandwich.

Dale Henderson



COME "SEE"  
US  
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RADIO  
&  
TELEVISION  
BROADCASTING  
OPTION

H 106  
(ELECTRONICS  
WING)

# Nugget Survey

A couple of weeks ago a survey was passed out of different students here at NAIT with a fairly detailed questionnaire on the NUGGET. The purpose of this particular survey was two-fold in that it served as a Marketing Research project for three Marketing students and the results that they tabulated gave us here at the NUGGET a better idea of what our readers liked and disliked about the NUGGET and its present structure. Since you students were kind enough to take time out of your demanding schedules to answer the question on the survey I feel that its the least we can do to give you a brief summarization of the results and what they mean.

Since the vast majority of you are unfamiliar with this particular survey but might be interested in the results I'll try and set the whole scenerio up for you again. The questions that were asked were basically group questions, that is, "what do you presently like about the NUGGET", what do you dislike? How often do you read it? What do you think of the quality? and what would you like to see in future papers. In the questions what do you like/dislike all the articles such as Editors Choice, Commissionaires Corner, Letter to the Editor, Byline, Cookin', Frank Glutton, Knobber Bones, Sports, Comics and General News were all put one after another so that if you liked/disliked the article, you just put a checkmark in the appropriate space. For the question, "How often do you read the NUGGET" you would check one of the spaces that said always, once a week, sometimes seldom or never. For the quality question you would check one of the spaces that said excellent, good, fair, or poor. For the question about what you would like to see in future you

could check one or more of the spaces that talked about cabarets around the city, or shows or concerts etc.

A short summarization of the above results suggested that most students read the paper most of the time. There was some concern by the students on the other campuses as to availability of the NUGGET however. On the average they felt that the paper was of fair quality in its present state. In regards to the articles that the students liked and disliked the three gentlemen that did the report broke the results up into male/female categories as well as taking an overall concenious. Then they took the results of the writers columns and rated them.

On this basis, it was found the General News rated as the most important feature, followed by Comics, Letters to the Editor, Sports, Byline, Editors Choice, Cooking, Frank Glutton, Knobber Bones and Commissionaire's Corner.

By rating these features (based on relative power and weighted average) the columns went as follows:

|                   |      |
|-------------------|------|
| News              | 10.0 |
| Comics            | 10.0 |
| Letters to Editor | 9.4  |
| Sports            | 7.8  |
| Byline            | 4.9  |
| Editors Choice    | 3.8  |
| Cookin'           | 3.1  |
| Knobber Bones     | 2.0  |
| Commissionaire's  | 1.7  |

The areas that the sample were interested in seeing added to the NUGGET was more coverage of NAIT news, Cabarets (Edmonton) Shows presently playing and Technology news.

The survey suggested that the 4 most popular articles were General News, Comics, Letters to the Editor and Sports. Byline,

because of its large female audience attraction should also be included in this group.

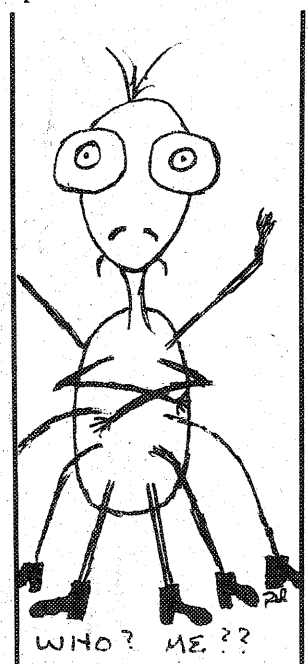
The 4 articles Cookin', Frank Glutton, Knobber Bones, and Commissionaires Corner should be re-evaluated in terms of their literary objectives. If no concrete explanation for their existence can be given then replacing them with articles more in line with the student wants should be given serious thought.

In the area of further research, the interviewers suggested that the NUGGET had problems attracting and maintaining a competent staff and that there research had shown that something was amiss in the organization and perhaps this quirk is underlying it all. Delving into the lack of student involvement must be considered a key to future improvement.

As a summary and further implication, the interviewers found that 9.1 percent of the population rate the paper as poor to very poor, while 89.2 percent rate it as fair to good. There is however a significant difference between the opinion of male readers and female readers; only 2.6 percent of the female population rate the paper as poor or very poor while the males go at 13 percent of five times higher. 97.4 percent of the female population rate the paper as fair to good compares to 84.2 percent for the males. The difference between the male and female opinions tends to suggest that the present NUGGET format is satisfying the female population more so than their male counterparts.

So there you have it readers, a quick summarization of the latest survey on the NUGGET and what you felt you liked and disliked. However, I think the interviewers may have interpreted your results slightly wrong.

For instance, it would seem Frank Glutton have been suggested that they served no purpose and should be eliminated EVEN THOUGH it was the most read column with most people either liking or hating it. Although Frank Glutton is a negative column, it seems to me that most of the people look forward to what Mr. Glutton has to say each week and if he was eliminated, than a percentage of our readers would be eliminated. I found that a lot of the people were indecisive as to what they liked or disliked and therefore when the interviewers were looking at the large neutral percentage in most features, that they just analized this neutral percentage as meaning most people didn't bother to read this article. However, I felt that the large neutral percentage was probably a result of people sometimes liking that particular article one week and disliking it another week and as a result they couldn't formulate an over-all opinion on this feature. Other than that, I thought the survey was well conducted, a good tabulation of results were projected and the results were more or less what I had anticipated they would be before the survey was conducted. However, theres always room for improvement andy maybe now that we've seen these results down in black and white some improvements will be shown.



# Business Administration Department

## OBJECTIVE:

The objective of the programs offered within the Department of Business Administration is to prepare students for careers in the various aspects of the business enterprise.

## MAJOR AREAS:

- Accounting
- Administrative Management
- Finance
- Marketing Management
- Computer Systems

At the end of the first year a change of options between Accounting, Administrative Management, Finance and Marketing management can be freely made without any loss of credit.

Students in first year Computer Systems normally go directly into second year Computer Systems.

### 1. Accounting

The management of financial resources and the provision of management information continues to assume greater importance as business and management techniques become more complex. Administrators of business, industrial and governmental organizations need staff with specific training in accounting.

The objectives during the second year are to provide the student with a good working knowledge of accounting and information systems and the account's role in those systems, familiarity with computer application in business, capability in

the use of quantitative analysis techniques, and the ability to derive meaningful relationships in financial data.

### 2. Administrative Management

One of the dominant characteristics of our era is the emergence of large scale corporations. This phenomenon consists of an unparalleled growth of management skills and sophistication. In Canada's second hundred years, there is no doubt that management expertise will continue to accelerate as rapidly as those of the sciences and the technologies.

These managerial techniques however are of equal importance to small and intermediate size business in as much as such businesses possess a vulnerability due to their limited finances.

In the Department of Business Administration, the program offered by Administrative Management recognizes the changing dynamics of the business world. This section therefore has designed a course of studies which will best equip the students with the ability to assess the nature and determine the objectives of an undertaking and to generate an environment for their achievement.

In the two year Administrative management program the student is submerged in a course of studies which interfaces the theoretical and the practical realities of the business world.

### 3. Finance

The highly competitive and often complex nature of today's financial transactions commands a high degree of skill and proficiency at all levels of financial management. This statement not only applies to managers in the numerous financial institutions, operating directly in the financial markets, but also to their counterparts in general business and industry.

The program objective is to provide the student with a good understanding of principles and practices employed by financial managers in the decision-making process involved in effective use and control of financial resources.

### 4. Marketing management

Marketing is the performance of business activities that direct the flow of goods and services from producer to consumer or end user. The two-year curriculum in Marketing is a study of these activities. The course of study is designed to enable graduates to enter any of the many occupations dealing with the marketing of goods and services.

Typical marketing occupations include merchandising, professional selling, advertising - (both media and agency) public relations work, marketing research, plus a variety of other marketing positions.

### 5. Computer Systems

The field of computer technology is currently undergoing sev-

eral changes. Developments have made it possible to access computer networks through terminals while the advent of mini computers has made it possible for many small businesses to take advantage of this modern technology. New applications for computers are being constantly realized, thru increasing the impact of computers on our society.

## EMPLOYMENT:

### Accounting

Graduates will apply their training as accountants, internal auditors, accounting technicians, cost analysts, payroll, supervisors in related areas, etc.

### Administrative Management

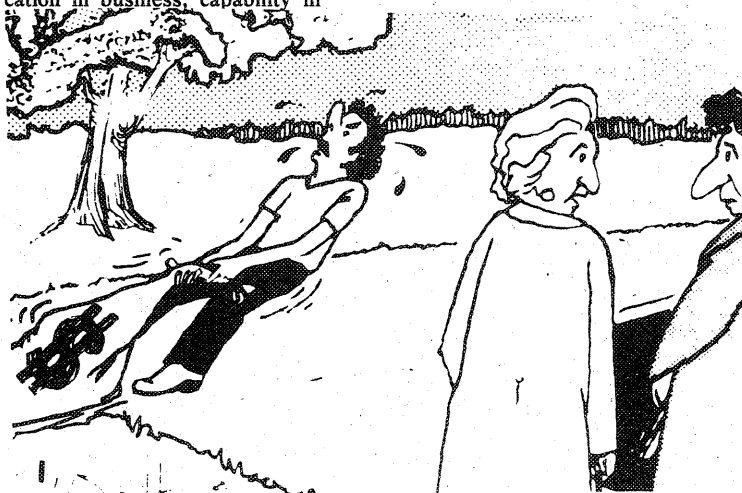
Most graduates will begin their careers as trainees in general office, finance, sales, marketing or government departments.

### Finance

Most graduates will begin their careers 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.

### Marketing Management

Most graduates will begin their careers in consumer related jobs as research, promotion, physical distribution, industrial sales, public relations, advertising, retail management and Consumer Affairs departments.



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# Air Condition and Refridgeration

Welcome to N.A.I.T.'s Open House! The Air-Conditioning students and instructors invite you to our displays which are highlighted further in this article.

We would like to explain the Air-Conditioning and Refrigeration course and the purpose it serves.

This two-year course is designed to train technicians in the Air-Conditioning, Heat and Refrigeration field. Refrigeration has become a major aspect in industry including manufacturing processes, product storage, and product transportation. Air-Conditioning and comfort systems are employed in many industrial, commercial or residential applications.

This provides a broad field in which graduates of this course find themselves in demand. The Air-Conditioning and Refrigeration Technologist, upon graduation, has the choice of design, control, maintenance or sales of these systems. Such varied and diversified employment which is available to graduates should appeal to many individual ambitions.

## THE BASIC COURSE

The course consists of a mixture of theory instruction and lab work in a variety of subjects.

The first year supplies basic understanding of the Air-Conditioning and Refrigeration course necessary for design and maintenance. There is a basic math course and physics course to ensure understanding of other subjects in this technology. A basic refrigeration course, consisting of theory and practical lab, teaches the fundamentals of the refrigeration cycles along with the components, the controlling and selection of refrigeration systems. Instruction is provided in electricity, the principle of current flow, induction, AC power and three-

phase systems including motors, starters, and transformers. Of course, drafting instruction is provided to show basic principles of engineering drawing and improve drafting techniques. A communications course deals with communication problems as well as proper letter and memorandum writing with a technical approach. Air-Conditioning theory and lab discusses human comfort conditions, psychrometrics, air-conditioning load analysis and testing procedures. Control of air-conditioning load analysis and testing procedures. Control of air-conditioning equipment using electric controls is taught as well. Plumbing, machine shop, sheet metal and thermodynamics are included in first year instruction.

The second year of the Air-Conditioning and Refrigeration course continues with many of the same courses becoming more specific and more practical, especially in the design aspect of the field. A computer course in Basic provides an interesting and valuable addition to the Air-Conditioning course as computer programming for control of systems is becoming more and more widespread. Refrigeration theory now keys on component selection, special application, and the absorption refrigeration cycle and a lab analysis course discusses defrosting, testing, and trouble shooting of refrigeration systems.

Electronic and pneumatic controlling of equipment is covered in the controls course as well as boiler controls and radiation detectors. Piping drawing and hydraulic and pneumatic control circuits are included in the Drafting course. Also mechanical detail drawings is taught with emphasis on radiation heating and ducting drawings. A Chemistry course provides information on industrial gases, corrosion, and water treatment and softening. In the Communications course, a detailed technical report must be prepared and a speech given before a panel of instructors, guests, and students. A Sound Control class deals with human hearing, sound power levels,

damage risk, noise reduction and testing procedures necessary in the design of a structure.

The sixth and final quarter gathers all the knowledge of the preceding five quarters and applies it to a design project. This design project is an actual building to be built, in which the student must design the heating layout, air distribution, sound reduction and entire system controls, complete with component selection, load calculations and mechanical drawings.

Throughout the course, the students will go on field trips to typical mechanical installations as well as mechanical rooms in N.A.I.T. itself. The course also provides room for physical education in the many facilities at N.A.I.T.

## DISPLAY

In the Air-Conditioning and Refrigeration Lab, Room A-188, a number of displays have been set up to show a cross-section of the course and some of the equipment we have to work with.

...You will be able to see our air handling experimental system where many of our tests are carried out.

...The computer terminal just recently installed will be on display.

...Several films will be showing. One on the Air-Conditioning

Course and the other on energy and its sources.

...Two experimental solar collectors designed by our technology will be on display.

...A miniature cooling tower that actually operates will be on display.

...A display of Fluidic control illustrating the Coanda effect is present.

...The heat transfer characteristics of various insulating materials will be illustrated, using a "heat box".

...Electronic heat pump test panel tests speed and accuracy in trouble-shooting procedures.

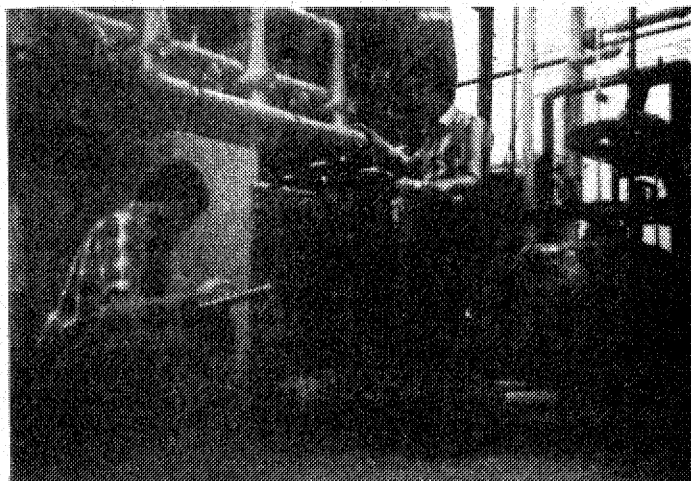
...Samples of various projects and reports from this year and previous years will be on display as well.

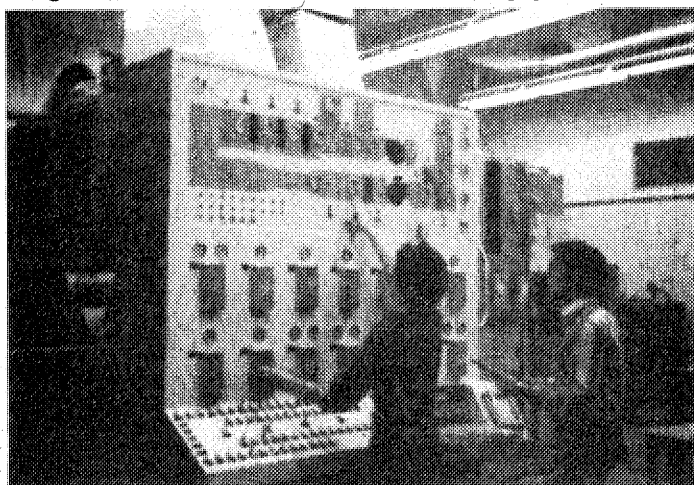
## PRO. OPPORTUNITIES

The Air-Conditioning and Refrigeration Technology has had excellent success with employment of its graduates. Because of the limited number of graduates, their usually more jobs available to these technologists than there are technologists. Some fields of employment available are listed below:

Design

The graduate will work for a mechanical engineering consult-





ing firm. He will work closely with an engineer and will eventually design all ventilation, heating and cooling systems for commercial applications such as office buildings, schools and hospitals. He could also be involved with industrial process design, including process component design and selection. Designing will include specifying all types of manufacturer's equipment.

#### Engineering Sales

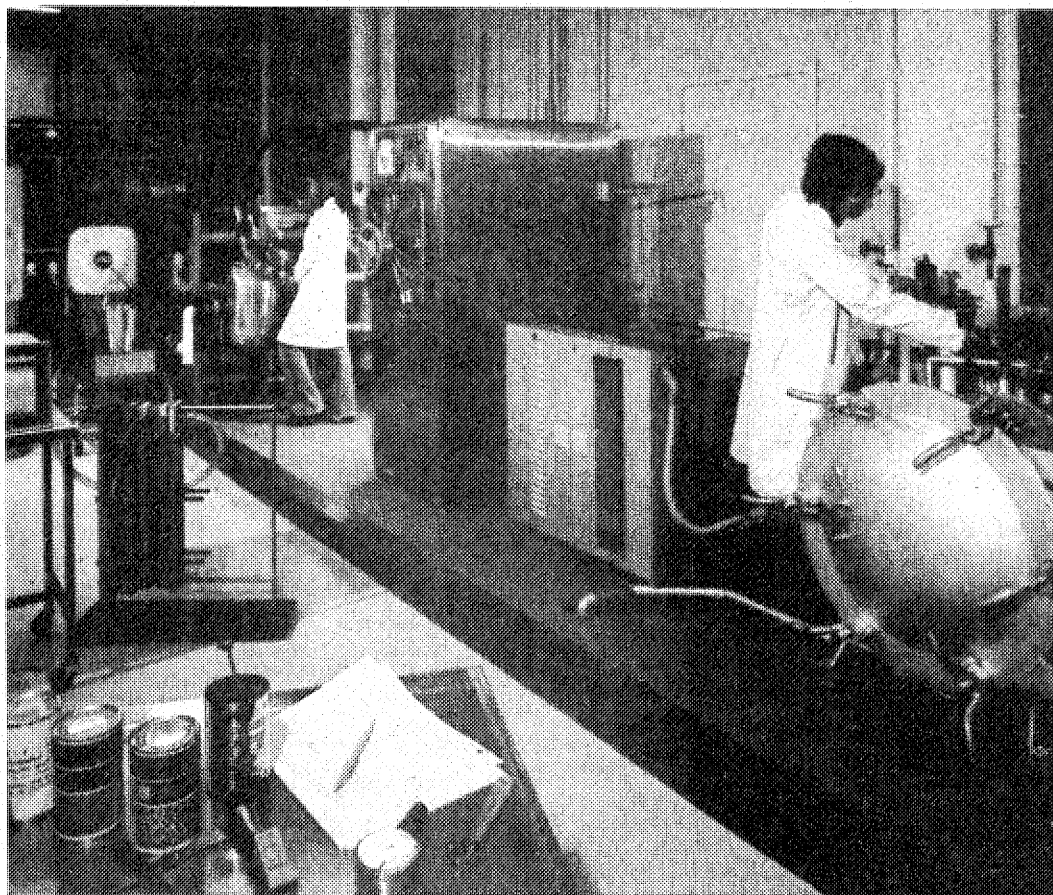
Manufacturers of air-conditioning and refrigeration equipment need qualified technical sales representatives to promote and sell their products. The graduate

will work for the manufacturer directly or for a sales agency. He will call on consulting firms to promote specification of the product he represents.

#### Operation and Maintenance

Graduates in this field will be in charge of large air-conditioning or refrigeration systems in office complexes, shopping centres, or other applications. These large systems require an engineering technologist to operate and maintain the complicated equipment. He will have to analyze component or control problems and supervise repairs.

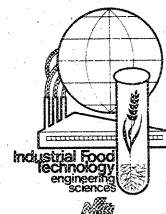
# Industrial FOOD TECHNOLOGY



Industrial food technologists work in the many processing industries which link agriculture to the supermarket. All manufacturers of familiar brands of foods and beverages depend on the applied sciences and engineering training of the food technologist. Job opportunities are in technical and supervisory areas, often in association with food science and the professionals.

Graduates have a wide choice of careers in manufacturing companies, government inspection or testing, or in research. Their mutual concern is in ensuring that food materials are efficiently processed into safe and nutritious quality products for Canadians and for export to fast-growing world populations.

Expanding opportunities in Alberta and across Canada far exceed the Industrial Food Tech grads available. If you are interested in how to become qualified for great opportunities, call at the South Lobby information booth by the Bookstore. Then visit the pilot-scale processing lab in E-3 to see canning, dehydrating, bottling, food analysis and microbiology.





# BYLINE

By Rob Fralick



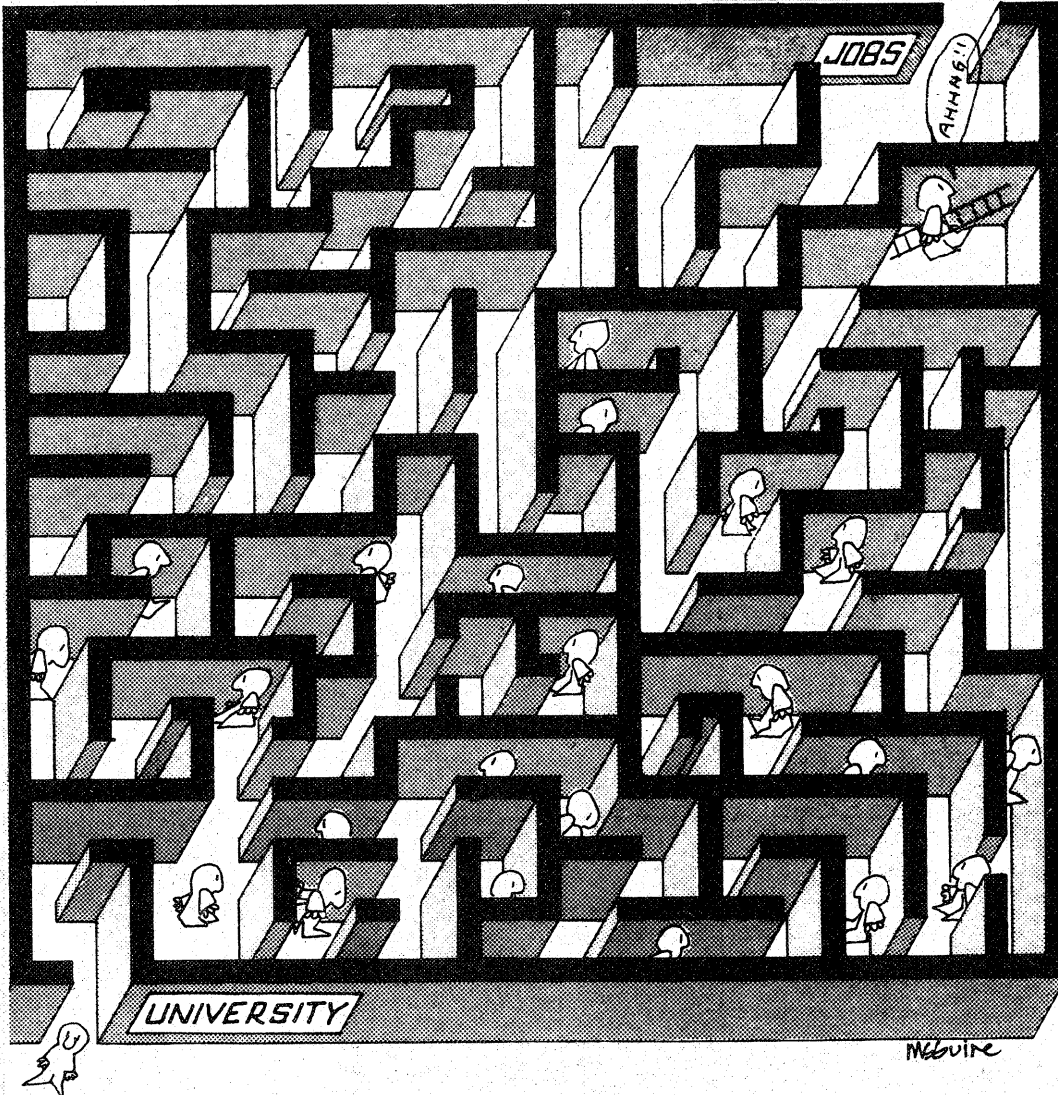
*Item:* How do like Open House so far? My editor tells me that this special edition of the newspaper won't follow the usual format, but will provide visitors with a casual guide as to what is happening at NAIT. A novel idea. But tough on regular column writers?! What I usually do with this space is pick two or three items from the entertainment world, local, national, wherever, and discuss them. Would you like to hear about a new movie in town? Maybe one of the books on the bestsellers' list? I'm your man. But a tour guide? Hmm. So enough of my problems already. With such a variety of people to write for, I need a topic of wide

concern but still within my realm of knowledge. So let's hammer at the Edmonton "cultural" scene for a while. In a general way of course.

For more years than most care to remember, our little town was just that. We almost proved single handedly that an expansion in size would not correlate directly with an increase in civilized diversions. Live theatre? Art? The opera? My God, then only an illusion of too few. Fortunately for us though progress doesn't count heads. These individuals sowed the seeds that we reap today. It may have started with the Citadel but witness the expansion to include

Theatre 3, Northern Light Theatre, Stagemest etc. There are so many places to go now it verrily confuses the brain to choose. Wait now, don't applaud your good fortune too soon. These enterprises need your support to survive. The smaller theatres are

playing to many empty seats and, infact a second art gallery just closed because of indifference. The product these people are providing is not the rumored poor quality. Our Culture needs your interest. Let's not revert back to the Ho-hum age.



A short-handed goal by Ken Cook, with only 4 minutes left in the game gave the Marketing men a 1-0 victory over Telecom "B" in the broomball championship final. The win capped an undefeated season for Marketing, who were 7-0-3 including 7 shut-outs. The game was a competitively tough contest, and the Telecom team could have been the victors. A pat on the back goes to them for a fine game and great season. The Marketing team consists of; Ken Cook, Dick McKinnon, Vic Henning, Jerry Berry, Sid Addleman, Lloyd Bertsch, Henry Loziuk, Bob Shuya, Ken Lipsette, and Rick Stewart. Hopefully, we shall see another great Marketing team next year defend the title for the third consecutive year.

--STOMPIN--

## CHNR - NAIT - RADIO

broadcasts 5 days a week  
MON. - FRI., 8 A.M. TO 9 P.M.  
- 99.1 QC CABLE FM -  
- 101.9 CAPITAL CABLE FM -  
on your dial

for requests phone:  
**477-4339**

**FLASH**  
**OP** OLAK

**RECORD**  
**REVIEW**



Courtesy of Sam The Record Man  
at Edmonton Centre

# ARE YOU CONCERNED ABOUT STUDENT TUITION FEES?

- SHOULD STUDENT TUITION BE FREE?
- IS POST-SECONDARY EDUCATION A RIGHT OR A PRIVILEGE?

A Task Force has been appointed by Alberta Advanced Education and Manpower to review student contributions to the costs of post-secondary education. If you are concerned about this issue, you are invited to express your views at our next public meeting.

**PLACE**

JUBILEE AUDITORIUM  
EDMONTON

**DATE**

WEDNESDAY, MARCH 22

**TIME**

3:00-5:00 p.m., and  
7:00-9:30 p.m.

TASK FORCE TO REVIEW STUDENTS'  
CONTRIBUTIONS TO THE COSTS OF  
POST-SECONDARY EDUCATION

2nd Floor, 10350-124th Street,  
EDMONTON, Alberta.  
T5N 3V9  
Telephone: 482-4411

The Bee Gee's, Now and Then. This weeks review is on the Bee Gees latest release "Here at last ...Bee Gee's...Live. It's a nice trip through time, from the time you dressed in a white T-shirt with tight jeans and the Bryl-cream trip to right now, where the Bee Gee's are still going strong. I have noticed that on their older songs, they have a bit of difficulty duplicating their old songs in the style that they originally came out in (maybe its intentional?). The Bee Gees have two different styles, the old and new. Their old music is a slow mellow rock that you can dance cheek-to-cheek, and their new style took them into the heart of disco (Jive Talkin') where they are now. The Bee Gees have their own sound which is quite unique and unmatched by anybody in the industry. This album portrays the Bee Gee's very well, as they were then and as they are now.

The album is a live recording, so this does have its drawbacks (screaming people and clapping hands) but the audience interference is played down as much as possible. Their songs are very lyrical and deep. Their lyrics take you from the story teller's circle (New York Mining Disaster 1941) to a loud party where you don't know anybody and you see somebody you'd like to meet (...in a room full of strangers...Nights on Broadway). I don't like the way they did their song Words. It sounds like someone is trying to do the song in some dingy little nightclub where nobody listens to the music anyway. Other than this, the album is excellent, and I recommend it to anyone who enjoys the Bee Gees.

Rating 8/10

## WHAT'S HAPPENING AT The Secretarial Display

Secretarial is keeping up with the times... expanded responsibilities, new office techniques, new skills...making the secretary an effective member for the "business team."

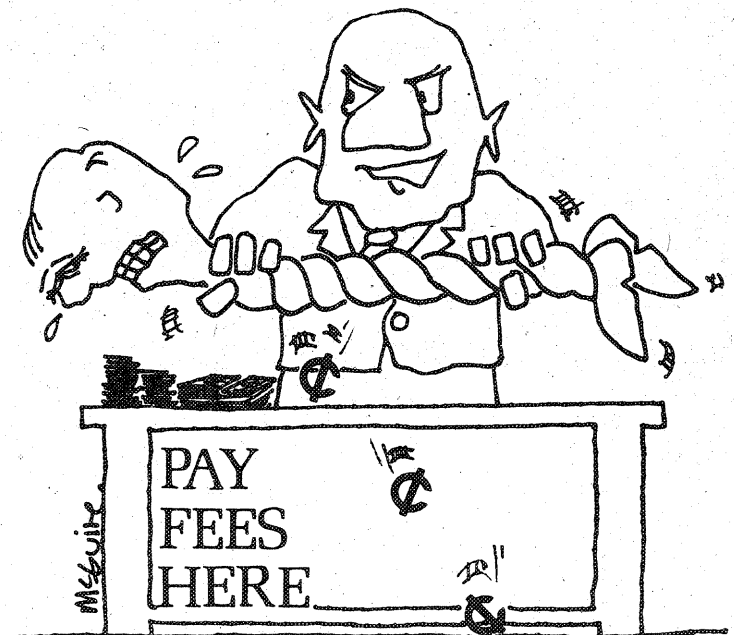
See our memory Typewriter Demonstration... the edition typewriter with a memory that will play back at 180 wpm.

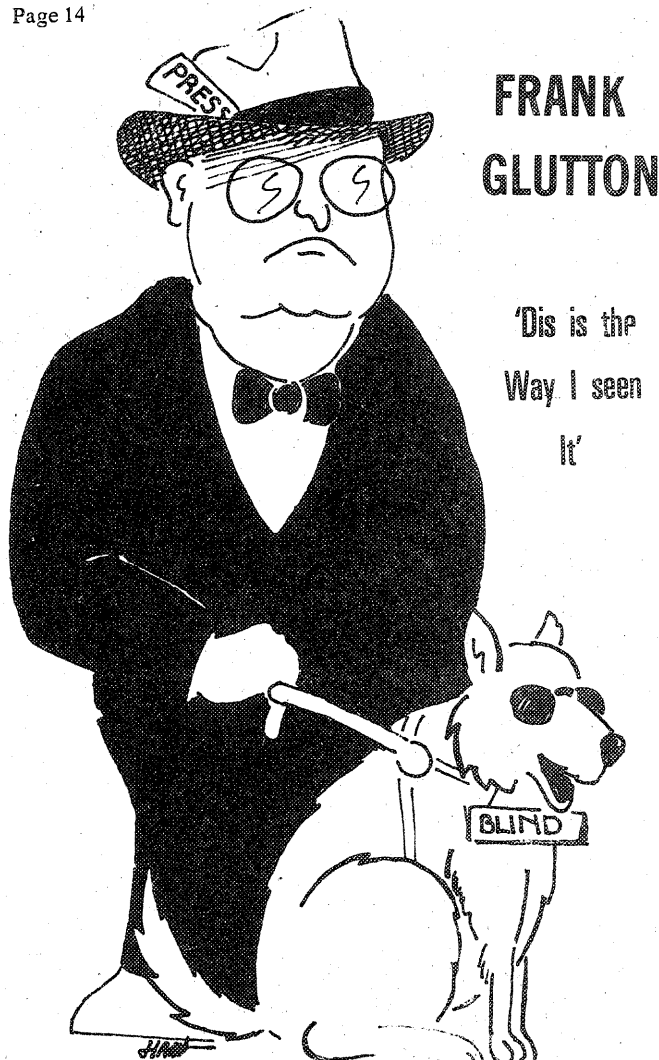
See our Shorthand Demonstration...shorthand writers will take and transcribe letters on an overhead projector illustrating

why this skill is essential in handling "URGENT" correspondence in the office.

Our hostesses will inscribe your name in Shorthand on name tags so that you can impress your friends with our secret code! They will answer all your questions about the program.

Visit our display and find out why secretaries are among the TOP TEN of the EMPLOYERS' MOST-WANTED EMPLOYEES list!





## FRANK GLUTTON

'Dis is the  
Way I seen  
it'

Now what kind of justice is that. I mean who does he think he is telling me that I can't go into my "goon" act this week and burn any of you dudes for doing something nasty. He tells me that its Open House week and that he doesn't want me giving any of the new prospective students any bad thoughts bout this school. I mean when was the last time that you ever remember me burning someone who didn't deserve burning. Sometimes I wonder about this place you know. Sometimes I wonder.

I suppose I should give a "Stripe" award to the Robb King rink for winning the 4-West Championship in curling a couple of weeks ago. Not they they weren't favored to win it or anything, but just because of the fact that NAIT never wins more than one title in the 4-West Championships any given year and this year it was the Men's Curling Team that won. So, to the curling team I offer you my "Stripe" award for keeping up the one-a-year-win-tradition by winning our school a curling trophy. Way to go boys!

LOVE IT OR LEAVE IT: Seeing that this is going to be my last year in this here place, I was wondering who this here rag was going to pick up to replace me. I know he/she won't be as good as

I was but I suppose you'd have to take into consideration that they'd only be a rookie. Of course with time they might improve and you never could tell, maybe they'd even win the "rookie of the year award" for writers. I mean all they'd have to do, is write a better column than the other 4 or 5 new writers that the paper is going to pick up. Of course it won't be the same without Ol Frank, but you students will just have to pull together and put your support behind the new person. I'm suregoing to miss writing this here Ol column and all, but they tell me I've got to go onward to bigger and better things. There going to send me up to the big leagues in the writing world. Of course it won't be as much fun as it was around here, cause I'm going to be more restricted in what I can and cannot say and how I should word it, cause them "REAL" people might even understand the way you people do, as to why I have to write my nasties the way I do. So, you chillens pull together, stick behind your new columnist and give he/she lots of support, even if there the pits (compared to me) and maybe, if your lucky, real lucky I might come back and give this place one guest column for next year, JUST TO SHOW YOU WHAT YOU'RE MISSING.



# "THE SKY'S THE LIMIT"

## in the Rug Room

Presented By  
Business Administration

# Free!





Two key misses by Manitoba's third enabled Alberta to count four on the third end and take a commanding 6-2 lead. This gave Robb and his crew of Bruce Lewis, Lorne Reed and Chris King the luxury of demolishing everything in sight. Facing two the Manitoba skip tried a desperate triple to get three on six, missed, gave Alberta two and now down 9-3, shook hands.

After two days of curling the Pas, Manitoba, three 4-West Champions were declared. As mentioned, Alberta represented by NAIT won the men's title, with Saskatchewan winning the mixed and British Columbia capturing the women's.

Robb and Co. didn't have things all their own way in winning the championship. Down 5-1 after six to British Columbia in the semis, it looked like a major upset was in the making. The determined British Columbia crew with their fine shot making were out to beat the 1974 Canadian Schoolboy champions. A corner guard in seven enabled Alberta to get two. A miss and a bungle on eight gave Alberta a chance to bury. British Columbia elected to gamble and follow Alberta in instead of peeling. This proved fatal as Alberta stole two to tie the game 5-5. Two buggles on nine enabled Alberta to steal two more when some fine shooting left them with two rocks fully covered in the four foot. Robb simply ran British Columbia out of rocks on the tenth to preserve their narrow 7-5 victory.

Format in the 4-West Championships called for round robin play. This determined the play-

off positions, with 1 vs. 4 and 2 vs. 3. Alberta looked awesome in disposing of British Columbia 9-3 and Saskatchewan 10-5. Manitoba stunned everyone when it crushed Alberta 7-0 after seven ends. This left Manitoba at 3-0, Alberta 2-1, British Columbia 1-2 and Saskatchewan 0-3. As mentioned, Alberta beat British Columbia 7-5 in a thriller and Manitoba stole their way to victory over Saskatchewan by a score of 9-4. This set up the championship game between Manitoba and Alberta. There was no denying King & Co. this time.

The NAIT Women representing Alberta made a gallant showing in a losing cause. A 7-6 set back to British Columbia in the semis eliminated them from the gold medal hunt. It was a disappointing loss in that British Columbia went on to crush Manitoba 14-1 in only six ends in the final.

## Behind the Hacks

The trip from Winnipeg to The Pas on the two prop job was a new experience for many. Friday evening was highlighted by a "Wild Game Night" --moose,

caribou, buffalo and elk meat were savoured by many. The two Deb's set a world record for lost hotel keys.

## SPORTS

by Rob Neil

Participation in Sports, whether it be Collegiate or Intramural is one of the best ways I know of making life at NAIT much more exciting and rewarding for you the student.

The collegiate program involves almost any sport you can think of, and NAIT is proud to be part of the Alberta Colleges league that includes teams like Red Deer College, Mount Royal College and many more throughout Alberta. NAIT has an excellent coaching staff with all the coaches extremely proficient in their field. The coaches are nice people and very approachable which makes it much easier on first year students to get out and try for a team.

Athletic Facilities are second to none at NAIT and should be used to their fullest by all people in and around NAIT. Arena, Swimming Pool, Squash, Racquetball, weight room, two Gymnasiums and many others.

With the use of the student identification card that all students get, these facilities can be used as much as you can handle.

These facilities are also open to the public, for a nominal fee that varies with the different facilities used.

The intramural program is the one that involves the most students and provides the greatest interaction between students amongst the various technologies. Irwin Strifler is the man in charge of all intramurals and does a tremendous job organizing and keeping all the programs running smoothly. The intramurals are as much social as athletic, and provide men's, women's and co-ed programs.

The entire sports program at NAIT is tremendous and one all of NAIT should be proud of.

## TENNIS ANYONE?

ENJOY TENNIS LESSONS ON NAIT'S INDOOR COURTS

LEARN & IMPROVE YOUR GAME

10 one hour lessons

PROGRAM

- Tues., Wed., or Thur.

COST \$20

- choice hours

6, 7, 8, 9 P.M.

starts week of March 27

### COST INCLUDES

- Qualified instruction
- New colored spalding tennis balls
- Video taping
- Tennis ball machines
- Bring your own tennis racquet



This program is open to students, staff and the general public.

Registration is at the CONTINUING EDUCATION OFFICES. AVOID DISAPPOINTMENT, REGISTER NOW.

# Recreational Activities And Racquet Sports For Adults

ENJOY NAIT'S INDOOR FACILITIES

Racquetball

Badminton

Squash

Basketball

Swimming

Volleyball

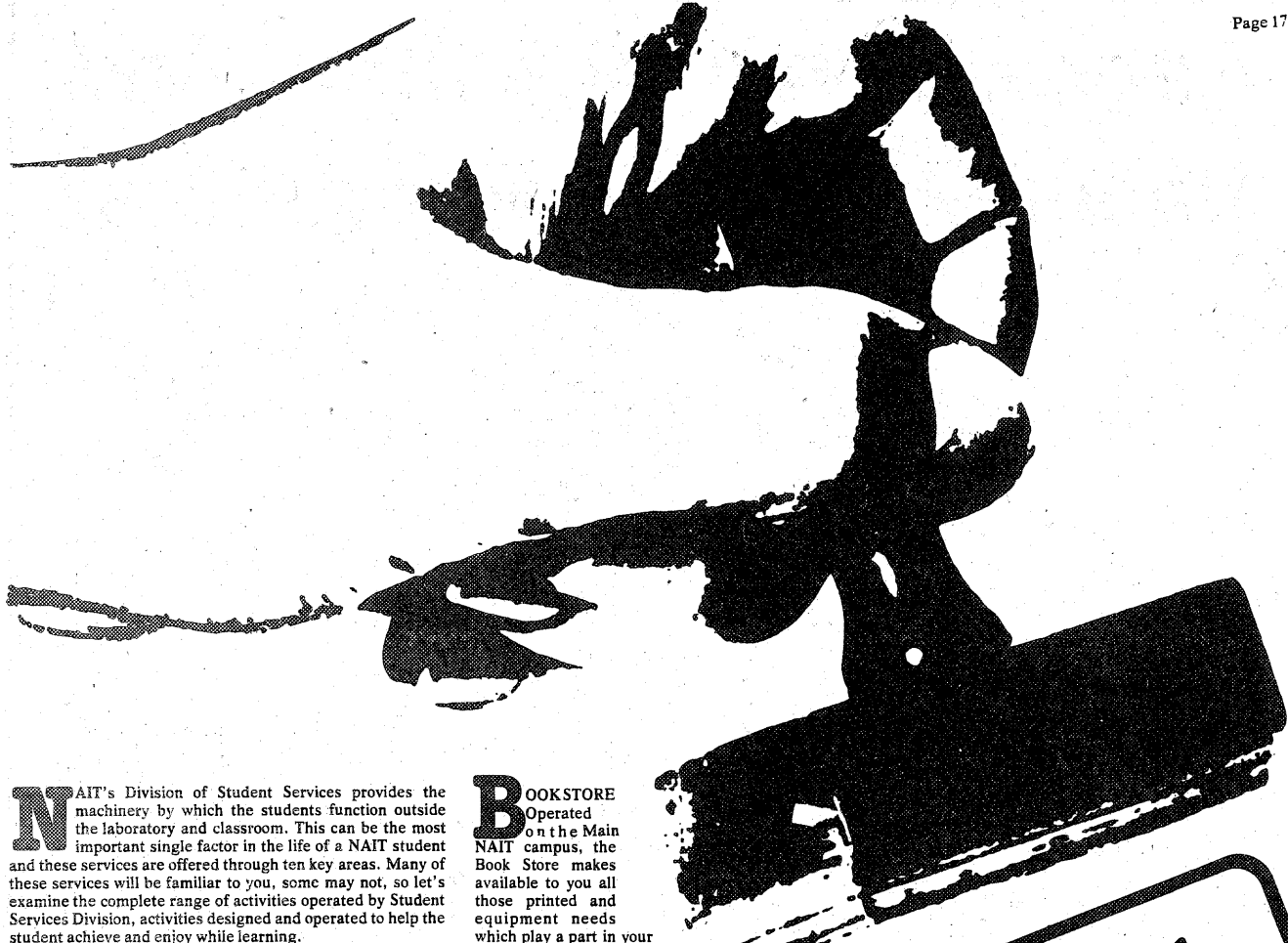
COST - \$32

Starts Wed. April 19

**THIS PROGRAM IS OPEN TO STUDENTS, STAFF AND THE  
GENERAL PUBLIC**

Registration is at the Continuing Education Offices at NAIT

**AVOID DISAPPOINTMENT, REGISTER NOW!**



**N**AIT's Division of Student Services provides the machinery by which the students function outside the laboratory and classroom. This can be the most important single factor in the life of a NAIT student and these services are offered through ten key areas. Many of these services will be familiar to you, some may not, so let's examine the complete range of activities operated by Student Services Division, activities designed and operated to help the student achieve and enjoy while learning.

**R**EGISTRAR The office of the Registrar is a Student Service which offers assistance in program selection, looks after the process of registration, and fills the record keeping role which is a necessary part of the educational process. While you're here, they help with student loan applications, transcripts, or any information you may need with regard to courses and course content.

**M**CNALLY LIBRARY NAIT is fortunate to have one of the finest technical libraries in Canada, with over 65,000 volumes and 500 periodicals available for your use. There are paperback books, pamphlets, clippings and micro readers as well as quiet corners for reading or study. Another of the good things brought to you by your Division of Student Services.

**H**EALTH SERVICES The physical and mental well-being of NAIT's 6000 full time day students and 7000 continuing education students is the direct concern of the skilled staff in Health Services. They can help with anything from a simple first aid treatment to emergency treatment in the case of serious illness. They look after immunizations, tuberculosis skin testing, and keep a complete health record system for the benefit of the student.

**A**UDIO VISUAL SERVICES A visit to room J21 on the main NAIT campus is a visit to the world of audio visual aids, another Student Service function to make your NAIT program more meaningful. They provide complete access to a complete line of audio visual aids, and the staff will offer assistance to any student in the production and utilization of audio visual aids in a course assignment. Make use of their production and viewing facilities. Enjoy the equipment loan system, and make use of the film library. They're all part of the Student Services.

**B**OOKSTORE Operated on the Main NAIT campus, the Book Store makes available to you all those printed and equipment needs which play a part in your NAIT program. Without leaving the campus, you can pick up the text books you need, drafting supplies and equipment, or a wide variety of stationery items.

**C**ANADA MANPOWER When it comes time to look for a job, either on graduation or during the summer, Canada Manpower operates a full time office on the main campus for your convenience. They have counsellors who will discuss job opportunities with you, give you brochures on employers, talk about salary schedules, and in general, help you find the job you really want.

**I**NTRAMURAL AND INTERSCHOLASTIC ATHLETICS It's not all work and no play if you're a NAIT student. NAIT can get you involved in a sporting activity that interests you, and if you thrive on competition, the NAIT intercollegiate athletic program will get you competing provincially, nationally, and inter-provincially throughout western Canada. If there's an athletic activity you enjoy, you'll find it in the intramural program.

**P**HYSICAL AND LEISURE EDUCATION Being a NAIT student means learning many things, some of which may be new physical and leisure activities. Through physical and leisure educational activities you may develop skills which will enrich your health and leisure hours both while at NAIT and after graduation. Another of the good things brought to you through Student Services.

**Student Services**

**C**OUNSELLING CENTRE Part of the Student Services team are the people in your Counselling Centre. Trained professionals, these people will help you with problems ranging from career planning, to decision making, to course information and even with personal problems. They're there to help. Get to know them. They can add immeasurably to the success of your stay at NAIT.

**D**UPLICATING SERVICES One of the unseen aspects of your life at NAIT will be the Duplicating Services operation. One of western Canada's finest printing facilities is operated on the main campus, providing you, through your instructors, with the printing needs that play a vital part of your NAIT program. Another part of Student Services at NAIT.

Look us up.

**NAIT**



# Medical Lab Technology

A lab tech. has just taken a sample of your blood and a throat swab. Both the blood and the throat swab disappear with the lab tech. and you're not sure exactly what's in store for them. If you're interested in finding out you might also be interested in making Medical Lab Technology your career. As the number of laboratory tests that are employed in the diagnosis and treatment of disease increase every year, so does the need for medical lab technologists. Though it should be emphasized that a lab technologist is a "behind the scenes" person, performing the tests ordered by the patients's doctor, it is a job that can be as rewarding as any other in the medical field.

Here at NAIT the ten-month training session of lectures and labs runs from September to June. The second year is spent at a hospital utilizing and improving the skills introduced at Nait. At the completion of this phase you are eligible to write the national exams.

There are five major disciplines which are covered in this program:

## *Hematology*

This department is concerned with the number, size and appearance of various cellular components of the blood in relation to a patient's condition. For example, a raised number of white cells may indicate to the doctor that bacterial infection is present. If a technologist spots deviations

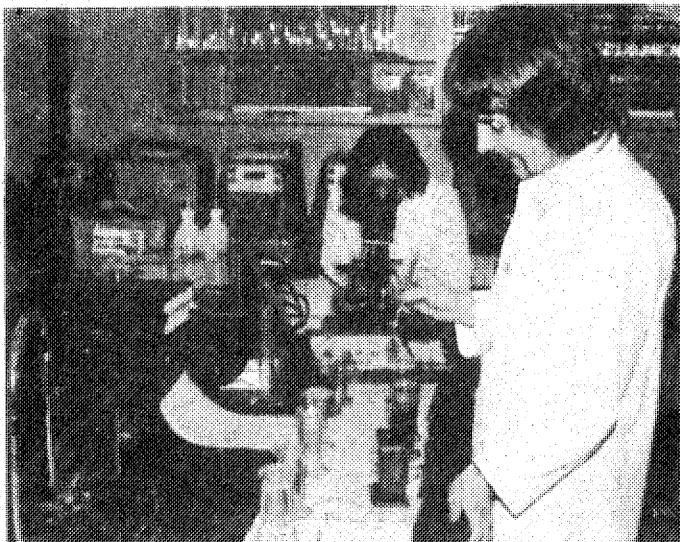
from the normal appearance of the cells while observing stained smears under the microscope this information can be valuable to the doctor in allowing him to make a diagnosis.

## *Microbiology*

Certain microbes such as bacteria, fungi, viruses and parasites are capable of producing disease. Being living organisms these microbes can be grown if supplied with the correct nutrient materials. This is why the microbiology technologist plants the specimens received from the patient on specially prepared growth media in an attempt to isolate the disease causing organism. Biochemical reactions of the microorganisms, staining characteristics and microscopic appearance contribute to their identification as well. To further aid the doctor in treatment, the micro-organism's susceptibility to various antibiotics is tested.

## *Histopathological Technique*

When the hospital's pathologist microscopically examines a sample of tissue surgically removed from a patient, he wants to see only one cell layer that has specific elements properly stained for good contrast. It is the aim of the histotechnologist to prepare such an end product. After fixing the tissue to prevent deterioration, the technologist processes it in such a way that allows sections less than one thousandth



of an inch thick to be cut from the tissue. The sections are attached to slides and then stained to emphasize the structure of the cells.

## *Clinical Chemistry*

In the clinical chemistry laboratory blood and other body fluids such as urine and cerebrospinal fluid are analyzed for the presence of trace amounts of chemicals. For example, a technologist would perform a test on the serum of a small child who has swallowed half a bottle of aspirin to determine the level of salicylates present. The results of the test would indicate to the doctor how much of the aspirin was absorbed into the child's bloodstream. The advances in electronics have provided the clinical chem. lab with an ever increasing number of sensitive instruments to perform such test. One such instrument, the auto analyzer, can be used to routinely test blood sugar levels and will be on display during NAIT open house.

## *Immunohematology*

Since it is natural for the body to reject tissues that are foreign to itself, it is important that blood used in transfusions, during surgery for instance, is compatible with the patient's blood. In the immunohematology department of a hospital the technologist selects units of blood that have been supplied by the Canadian Red Cross Transfusion Service

and performs a crossmatch using the patient's serum and donor's red blood cells. Only when the technologist is satisfied with the test results can the blood be used for the transfusion.

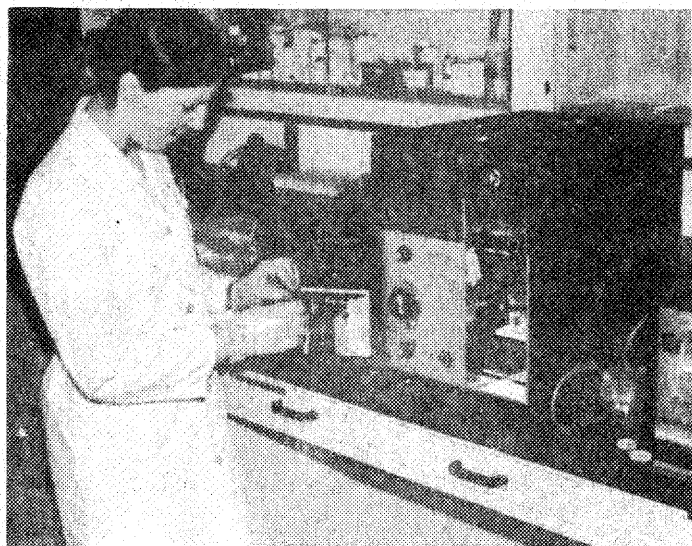
## *Cytology*

Cytology is a new branch of the Medical Lab Technology field that has been gradually developing since the discovery of the Pap Test by Dr. George Papanicolaou.

Cell samplings are first smeared on slides and then stained using special dyes. The cytotechnologist then microscopically examines the slides for abnormal cells which may indicate the presence of cancer in the patient.

Those completing a basic course usually can find employment as screeners at a Junior Technologist level. They screen the slides and mark any unusual or atypical cellular findings, so that the attention of the pathologist reporting the case to the patient's physician will be brought to these areas. The more adept they become, the more responsibility they are given. Some become supervisors and teachers. Others go into re-

Perhaps this has answered a few of the questions you might have had or maybe it has raised several more. We could be pleased to offer some answers if you would like to visit us in the F-Wing during NAIT open House.



# Men's & Ladies Hairstyling



**Hairstyling:** When we say we're taking hairstyling, people laugh, snicker, and say, "So what's so tough about cutting hair?" But let me tell you there's a lot more to the course than cutting hair.

The course consists of 1400 hours, both practical and theoretical studies. Registration is taken four times yearly. The course outlines several different aspects of the hairstyling industry.

First we are made aware of the anatomy of skin and hair involving the knowledge of structures

and functions of the body relating to skin and hair, and certain treatments such as relaxation, muscle toning, stimulation of circulation, activity of skin glands all which help promote the maintenance of strong and healthy skin and hair.

Next is the evaluation of the PH of products. The normal skin and hair PH is 4.5 to 5.5. Many products on the market today have a much higher or lower PH value which can cause severe damage to the hair through excess use.

Scalp conditions, such as seb-

horrea (oily scalp), asteatosis (dry scalp), pityriasis (dandruff), and pediculosis (head lice) are studied in great detail so we are qualified to give any information to our clients on their conditions if we are asked to do so.

Management of a beauty salon is also in our curriculum. This involves the bookwork, hiring of staff, finding a good location for the shop and operating our business in a successful and profitable manner.

The practical part of our course is also an involved aspect. Anything done in the shop on clientele is first studied in theory, then an exam is given in which 100 percent is the passing mark. Next is the trail run on a model

client in which an instructor observes your entire process. Finally we're ready to work on actual clients.

Haircutting, perming, hair coloring, hair treatments, scalp-treatments, and facials are services we perform for the public. Shaving and beard trims are also included in the men's lab.

So you see, hairstyling isn't as easy as it seems. There's a lot involved in the course but like in any other technology in NAIT, if you enjoy what you are doing, it's all worth it.

So come and see us during NAIT Open House and see just what we mean. After all, "Nait Hairstylists do it with Style!"



## Commissionaires Corner



### OPEN HOUSE PARKING By S/Sgt Johnston

During the Open House days the parking in and around the NAIT complex will be controlled by commissionaires and the volunteer students.

In order to inform students and staff who will be attending and

possibly showing some of their guests the various attractions, the following information on parking is presented.

The far North lot -- north of 118 Avenue, will be closed off until 0900 hours each morning. The reason for this action is to ensure guests can park when they arrive.

All reserved, numbered stalls will be used **ONLY** by renters on Friday, the 14th.

All reserved, numbered stalls will be on the first come, first serve basis on Saturday, the 18th.

NAIT students will be able to help control the job of keeping the normal areas -- in and around the institute -- clear by assisting guests who ask for parking information.

NAIT students, should they care to help, can assist in the

prevention of motor vehicle tie-ups by ensuring they avoid dropping off and picking up passengers in the main (106 St.) parking lot by using the lane of 106 St. for this purpose. Avoid parking where a build-up will prevent loading or unloading of trucks and vans. Avoid parking in fire lanes and restricted parking areas. Although the walk from the far south (south of Princess Elizabeth Avenue) lot is a fair distance -- co-operation will be required of all students to use this parking area on these days. This will aid in making the Open House a success.

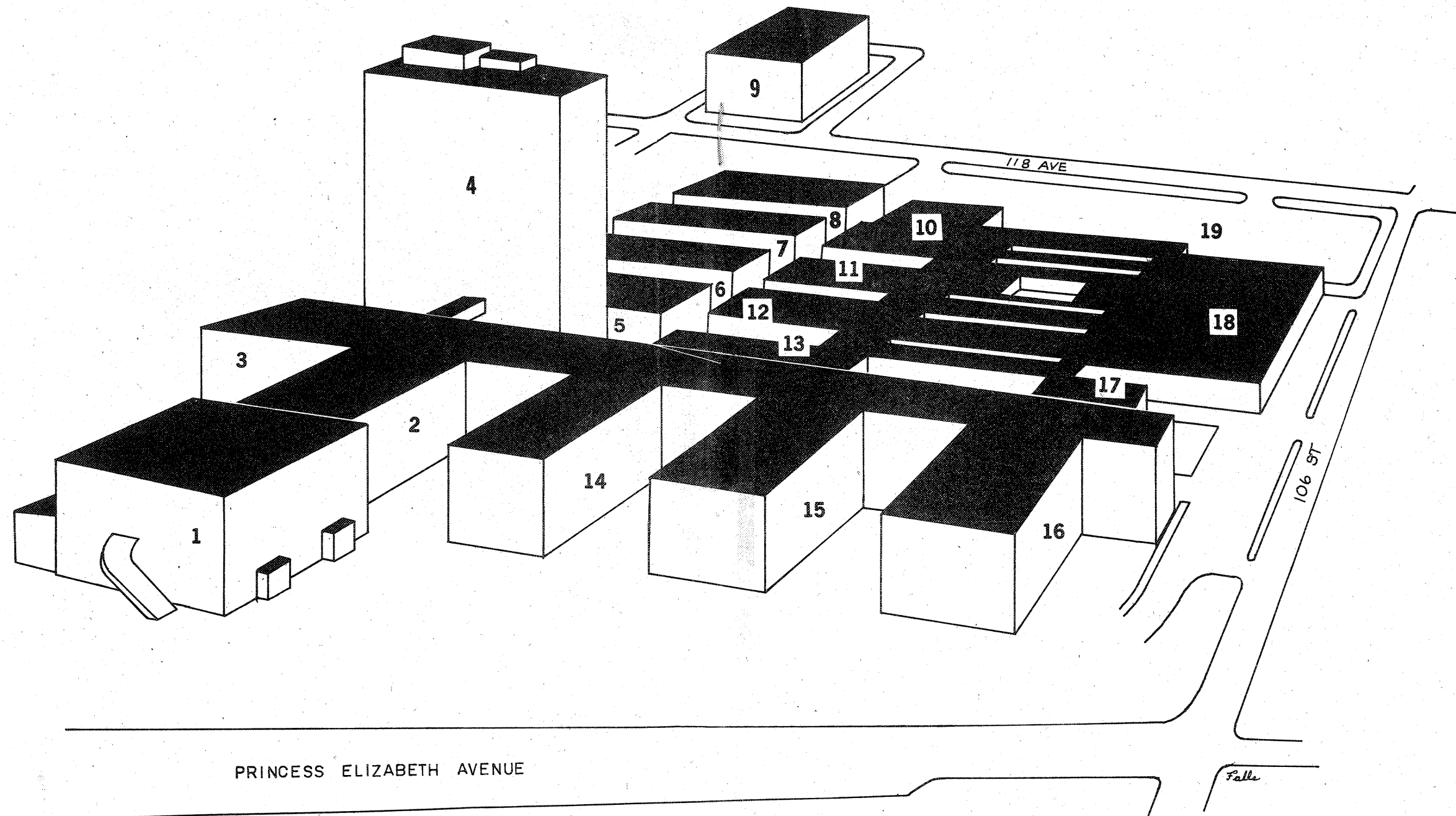
City of Edmonton Police will be cruising in and around the NAIT perimeters. They will be on the ready to heed any calls from the commissionaires and volunteer

parking students. Care should be taken when parking in the streets east of the Institute. Respect the street parking signs.

Remember -- ask a commissionaire for the proper parking location.

Remember, the Institute speed limit is 10 MPH in and around all buildings and parking lots. Speed could be fatal when guests are looking around in unfamiliar areas.

So to have a good time, all that is required is: A little courtesy and common sense...Enjoy yourself.



- 1 Students Activities Building
- 2 J-Wing
- 3 Gym
- 4 Tower Building
- 5 Services Building

- 6 Welding Building
- 7 Mortar Trades Building
- 8 Industrial Annex Building
- 9 Car Parking
- 10 Construction Wing

- 11 Metals Wing
- 12 Electrical Wing
- 13 Food Services Wing
- 14 Electronics Wing
- 15 Science Wing

- 16 Medical Wing
- 17 General Offices
- 18 Auto Diesel Shop
- 19 Staff Parking



# Location of Displays for N.A.I.T. Open House

Page 22

|   |  |
|---|--|
| <b>Air Conditioning &amp; Refridgeration Technology</b> | <b>A188A, A188B</b>  |
| <b>Automotives</b>                                      | <b>A115, A113, A111, A107</b>                                      |
| <b>Biological Sciences</b>                              | <b>E202, E206, F210</b>  |
| <b>Bricklaying</b>                                      | <b>B109</b>  |
| <b>Building Construction</b>                            | <b>L5, L52, L54</b>  |
| <b>Business Administration</b>                          | <b>North Lobby</b>   |
| <b>Carpentry</b>  | <b>A162, A163, A164</b>  |
| <b>Chemical Technology</b>                              | <b>G10, G105, G106, G107,<br/>G108, G109, G110, G205,<br/>G207</b> |
| <b>Civil Engineering</b>                                | <b>Plaza 2, L116, L132, L135,<br/>L137, L149</b>                   |
| <b>Combined Laboratory &amp; X-Ray Technology</b>       |  |
| <b>Commercial Baking</b>                                | <b>North Side &amp; East End of<br/>South Lobby</b>                |
| <b>Commercial Cooking</b>                               | <b>Auditorium</b>  |
| <b>Commercial Signwriting</b>                           | <b>B110</b>  |
| <b>Continuing Education</b>                             | <b>Continuing Education<br/>Offices</b>                            |
| <b>Court Reporting Technology</b>                       | <b>South Lobby</b>   |
| <b>Dental Assisting Technician</b>                      | <b>E203; maybe if needed</b>                                       |
| <b>Dental Technology (Laboratory and Mechanic)</b>      | <b>F208, F213</b>  |
| <b>Dietary Technology</b>                               | <b>South Lobby</b>   |
| <b>Earth Resources Technology</b>                       | <b>E225</b>  |
| <b>Engineering Design and Drafting Technology</b>       | <b>L13, L167, L169, &amp; L172 -<br/>Drafting Lab</b>              |

# DISPLAYS

|  |   |
|--|---|
| <b>Electrical Technology</b>                           | <b>A183, A184, A185, A186</b>                   |
| <b>Electronics Engineering Technology</b>              | <b>H105, H106, H107, H108, H109, H111, H112</b> |
| <b>Food services</b>                                   | <b>Auditorium; E120</b>                         |
| <b>Forest Technology</b>                               | <b>N101, n112, N114</b>                         |
| <b>Health Record Technology</b>                        | <b>South Lobby</b>                              |
| <b>Hydrocarbon Engineering Technology</b>              | <b>E219</b>                                     |
| <b>Industrial Food Technology</b>                      | <b>A103/5</b>                                   |
| <b>Industrial Heavy Equipment Technology</b>           | <b>E3, Lab and South Lobby</b>                  |
| <b>Instrumentation Engineering Technology</b>          | <b>J5, J7, J9, J28, J30</b>                     |
| <b>Ladies Hairstyling</b>                              | <b>E227 - E229</b>                              |
| <b>Lathing</b>   | <b>B112</b>                                     |
| <b>Library</b>   | <b>Opposite General Office</b>                  |
| <b>Machinist</b>                                       | <b>N123</b>                                     |
| <b>Materials Engineering Technology</b>                | <b>South Lobby</b>                              |
| <b>Mechanical Industrial Engineering Technological</b> | <b>N117, N119</b>                               |
| <b>Medical Dicta-Typist</b>                            | <b>South Lobby</b>                              |
| <b>Medical Laboratory Technology</b>                   | <b>F107, F107A, F108, F110</b>                  |
| <b>Medical X-Ray</b>                                   | <b>F7, F8, F9-A, B, C, D,</b>                   |
| <b>Men's Hairstyling</b>                               | <b>E232</b>                                     |
| <b>Millwork</b>  | <b>N122</b>                                     |
| <b>Millwork &amp; Carpentry</b>                        | <b>A162, A163, A164</b>                         |
| <b>Nursing Station</b>                                 | <b>T110, T112</b>                               |

# DISPLAYS

|   |  |
|---|--|
| <b>Partsman</b>                               | <b>None</b>                                  |
| <b>Painting &amp; Decorating</b>              | <b>B108</b>                                  |
| <b>Photographic Technology</b>                | <b>H12</b>                                   |
| <b>Physical &amp; Leisure Education</b>       |  |
| <b>Plastics Engineering Technology</b>        | <b>E222</b>                                  |
| <b>Power Activated Tools</b>                  | <b>B112</b>                                  |
| <b>Power Engineering Technology</b>           |  |
| <b>Radio &amp; Television Arts</b>            | <b>Poster only; no displays</b>              |
| <b>Registrar's Office</b>                     | <b>Across from Library</b>                   |
| <b>Respiratory Technology</b>                 | <b>G211</b>                                  |
| <b>Retail Meat Cutting</b>                    | <b>Auditorium</b>                            |
| <b>Secretarial Technology</b>                 | <b>South Lobby</b>                           |
| <b>Sewing Program</b>                         | <b>220</b>                                   |
| <b>Surveying Technology</b>                   | <b>L218, L220, L222</b>                      |
| <b>Telecommunications Technology</b>          |  |
| <b>Teller Training &amp; General Business</b> | <b>South Lobby</b>                           |
| <b>Thermo Dynamics</b>                        | <b>A114</b>                                  |
| <b>Welding</b>                                | <b>Welding Shop Area<br/>(Saturday Only)</b> |



# Spring & Summer

## CONTINUING EDUCATION

## COURSE OFFERINGS

### BUILDING CONSTRUCTION

|                                   |          |
|-----------------------------------|----------|
| Alberta Building Regulations*     | March 28 |
| Construction Methods II*          | March 9  |
| Construction Methods Improvement* | March 22 |
| Construction Management*          | March 29 |
| Floorcoverings*                   | March 29 |
| Field Surveys*                    | April 1  |
| Roofing and Sheet Metal*          | March 28 |

### BUSINESS

|                                |          |
|--------------------------------|----------|
| Bookkeeping I                  | March 21 |
| Bookkeeping II                 | March 29 |
| Creative Writing               | March 29 |
| How to Start Your Own Business | March 30 |

### BUSINESS ADMINISTRATION

|   |         |
|---|---------|
| Accounting XB106*                         | July 4  |
| Accounting XB107*                         | July 18 |
| Accounting XB108*                         | Aug. 1  |
| Computers in Business—Principles XB247*   | July 4  |
| Computers in Business—Applications XB248* | July 18 |
| Economics XB186*                          | July 4  |
| Economics XB187*                          | July 18 |
| Economics XB188*                          | Aug. 1  |
| Marketing Mathematics XB116*              | July 4  |
| Mathematics of Finance XB117*             | July 18 |
| Statistics XB216*                         | July 4  |
| Statistics XB217*                         | July 18 |

### CHEMISTRY

|                |          |
|----------------|----------|
| Stoichiometry* | March 14 |
|----------------|----------|

### CIVIL

|                    |         |
|--------------------|---------|
| Survey Field Work* | April 1 |
|--------------------|---------|

### GENERAL

|   |          |
|---|----------|
| Cardio-Pulmonary Resuscitation (Spring) | April 3  |
| Cardio-Pulmonary Resuscitation (Summer) | July 4   |
| Effective Reading for Adults            | March 20 |
| Pilot's Ground — Part III               | April 17 |
| Preparing Your Personal Income Tax      | March 23 |

### HORTICULTURE

|                                    |          |
|------------------------------------|----------|
| Horticulture for the Homeowner     | April 3  |
| Local Insect Pests & Their Control | April 11 |

### MATHEMATICS

|                          |         |
|--------------------------|---------|
| University Transfer Math | March 6 |
|--------------------------|---------|

### PHOTOGRAPHY

|                                    |         |
|------------------------------------|---------|
| Color Developing and Printing Labs | April 3 |
|------------------------------------|---------|

### PIPE TRADES

|                            |          |
|----------------------------|----------|
| Gas IV — Gas Controls II   | March 7  |
| Steamfitting Upgrading III | March 21 |

### RECREATION

|  |                              |
|--|------------------------------|
| Adult Figure Skating                             | July 4                       |
| Adult Hockey School                              | July 3                       |
| Power Skating                                    | Aug. 14                      |
| Recreational Activities & Racquet Sports (Adult) | April 19                     |
| Tennis Anyone?                                   | March 28, March 29, March 30 |
| Women's Self Defense                             | April 18                     |

### SUMMER HOCKEY SCHOOL

|                         |        |
|-------------------------|--------|
| Session I               |        |
| — Group 1 (Ages 11-12)  | July 3 |
| — Group 2 (Ages 8-9-10) | July 3 |
| — Group 3 (Ages 8-9-10) | July 3 |

|                         |         |
|-------------------------|---------|
| Session II              |         |
| — Group 1 (Ages 11-12)  | July 17 |
| — Group 2 (Ages 11-12)  | July 17 |
| — Group 3 (Ages 8-9-10) | July 17 |

|                        |         |
|------------------------|---------|
| Session III            |         |
| — Group 1 (Ages 13-14) | July 31 |
| — Group 2 (Age 15)     | July 31 |
| — Group 3 (Ages 13-14) | July 31 |

|                         |         |
|-------------------------|---------|
| Session IV              |         |
| — Group 1 (Ages 13-14)  | Aug. 14 |
| — Group 2 (Ages 11-12)  | Aug. 14 |
| — Group 3 (Ages 8-9-10) | Aug. 14 |

### SUMMER RECREATION PROGRAM

|                                 |         |
|---------------------------------|---------|
| Group #1 — Males (Ages 8-9)     | July 4  |
| Group #2 — Females (Ages 8-9)   | July 4  |
| Group #3 — Males (Ages 10-11)   | July 17 |
| Group #4 — Females (Ages 10-11) | July 17 |
| Group #5 — Males (Ages 12-13)   | July 31 |
| Group #6 — Females (Ages 12-13) | July 31 |
| Group #7 — Males (Ages 10-11)   | Aug. 14 |
| Group #8 — Females (Ages 12-13) | Aug. 14 |

### SWIMMING PROGRAMS — ADULT

|   |             |
|---|-------------|
| Adult Small Craft Safety Canoe — Level I  | April 3 & 5 |
| Adult Small Craft Safety Canoe — Level II | April 3 & 5 |
| Adult Stroke Improvement                  | April 3 & 5 |

|                                  |             |
|----------------------------------|-------------|
| Beginners Adult                  | April 3 & 5 |
| Bronze Cross — Adult             | April 3     |
| Intermediate/Senior — Adult      | April 3 & 5 |
| Junior Adult                     | April 3 & 5 |
| R.L.S.S.C. Fitness Award — Adult | April 3 & 5 |
| Springboard Diving — Adult       | April 5     |

### SWIMMING PROGRAMS — CHILDREN

|                                      |         |
|--------------------------------------|---------|
| Advanced Parent & Tot                | April 8 |
| Beginner — Children                  | April 8 |
| Children's Life Saving               | April 8 |
| Children's Small Craft Canoe         | April 8 |
| Distance Swim — Marathon — Mile Swim | April 8 |
| Intermediate/Senior — Children       | April 8 |
| Junior — Children                    | April 8 |
| Parent & Tiny Tot                    | April 8 |
| Parent & Tot                         | April 8 |
| Pre-Beginner — Children              | April 8 |
| Springboard Diving — Children        | April 8 |
| Water Polo                           | April 8 |

### SECRETARIAL

|                            |          |
|----------------------------|----------|
| Key Punch                  | July 4   |
| Shorthand — Speedbuilding  | March 20 |
| Travel Procedures          | March 7  |
| Typewriting — Basic        | May 8    |
| Typewriting — Intermediate | May 8    |

### SEWING

|  |                         |
|--|-------------------------|
| (Note: the majority of these courses will be held at the N.A.I.T. Sewing Centre at 10117 - 150 Street) |                         |
| Dressmaking & Tailoring (Pattern Drafting & Design Option)   |                         |
| Making of Dress Forms (Bust Forms)   | Day — May 3             |
| Teenage Sewing Course  | Day — July 4            |
| Bishop Method of Clothing Construction   |                         |
| Clothing IA Refresher Workshop   |                         |
|  | Day or Evening — May 31 |
| Fashion Make-Up (N.A.I.T. Campus)  | Evening — April 4       |
|  | Evening — April 6       |
| Pantal Pantel Pantel   | Day — April 3           |
|  | Evening — April 7       |

### TELECOMMUNICATIONS

|                        |          |
|------------------------|----------|
| Logic II               | March 6  |
| SP-1 C.P.U. & Software | April 17 |

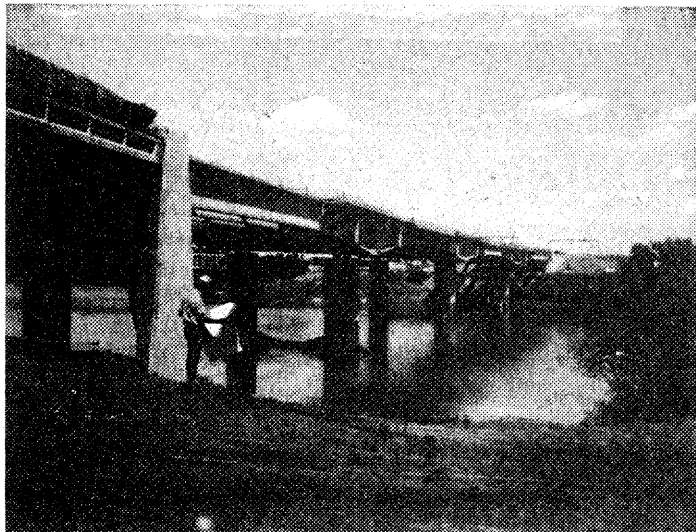
### WELDING

|                |          |
|----------------|----------|
| M.I.G. Welding | April 24 |
|----------------|----------|

**FOR FURTHER INFORMATION AND APPLICATION FORMS PLEASE CALL THE CONTINUING EDUCATION DIVISION AT 477-4383.**



# A "CIVIL" INVITE TO COME ON OVER TO PLAZA TWO



Civil Engineering Technology invites you to view their display on the main floor of PLAZA TWO. Exhibits of students' work, NAIT equipment and information for the public and prospective students are provided to illustrate the following career areas:

1. Municipal: subdivision development
2. Structural: design of wood, steel and reinforced concrete structures.
3. Soils, asphalt and Concrete:

design of concrete and asphaltic mixes, paving, testing of soil, asphalt and concrete.

4. Topographic -- Highways: surveying, photogrammetry

5. Related Fields: project management, estimating, computer programming

In conjunction with the above display areas, you are encouraged to enjoy a cup of coffee and rest while watching films pertaining to Civil Engineering Technology.

Bring your questions and cur-

iosity with you and talk to the staff and students at PLAZA TWO regarding a career in Civil Engineering Technology.

The objective of the Civil Engineering Technology program at the Northern Alberta Institute of Technology is to educate individuals to the level of Engineering Technologists who assist Engineers in the many various phases of engineering endeavor. The Technologist functions at this level as a member of the "Engineering Team" and his/her duties are as varied as the projects will dictate. the graduates find employment in planning, estimating, design, construction, supervision and inspection in numerous areas such as land development (subdivision), industrial development, transportation, resource development, structural and residential construction and any other facet of activity involving engineering.

Employment opportunities are presently excellent for the Civil Engineering Technology graduate. the jobs that are obtained are full time, permanent and are not seasonal in nature. The choice of both regional location and office versus outdoors is generally available.

In order to perform his/her assigned duties efficiently, the

Civil Engineering Technologist must acquire a considerable store of technical knowledge in a variety of engineering fields. Also he/she requires sound theoretical education in the basic sciences (mathematics and physics), so that he/she can apply such knowledge to the solution of practical problems. The fundamental sciences provide the necessary background for the study of engineering mechanics, strength of materials, hydraulics, and other subjects required for engineering analysis and design. his broad training of the Civil Engineering Technologist enables him/her to adapt with no difficulty to the many varieties of jobs that are available.

The graduate from Civil Engineering Technology at NAIT is eligible for membership in the Alberta Society of Engineering Technologists.

The academic requirements to enter into Civil Engineering Technology are:

High School Diploma or equivalent with a 50 percent or better in Grade XII mathematics 30, 31, 33, or 36; plus 40 percent or better in a Grade XII Science subject, Physics (preferred) Chemistry, or Biology.

# Engineering Technology

The Instrument Society of America defines Instrumentation as "the art and science of measurement and control." It involves the use of and/or work with instruments which range from simple mechanical float level controls to complex computer based rocket guidance systems. At NAIT, our program concentrates on the industrial instrumentation necessary to automate Alberta industries. With industry becoming increasingly automated, the capital lay-out for instrumentation is increasing considerably; hence, creating requirements for technologists in many areas of work.

The instrumentation program is designed to meet the challenge of this rapidly progressing technology by providing a sound

technical background in mathematics, science, pneumatics, electronics, process measurements, process controls, and digital computers. Students are given training in a well equipped laboratory with functioning process units instrumented with pneumatic, electronic, and computer controls.

The Instrumentation Technology graduates are employed in many areas of the industrial instrumentation and control field.

These include sales and service, drafting and system design, installation, start-up, and maintenance. The instrument manufacturers need well-trained specialists to maintain, modify, design, and/or sell their instrumentation products. The consulting and construction engineering offices

require Instrumentation Technologists to plan and specify automation systems for new industrial plants. Industrial process companies require the Instrumentation specialists to troubleshoot and repair measurement and control systems as well as recommend modifications necessary to improve these systems.

The growth of process industries in Alberta and the rest of Canada indicates the steady demand for Instrumentation Technologists. The petroleum, natural gas, tar sands extraction, pipelines, pulp and paper, chemicals, power, and fertilizer industries are all prominent in this expansion. These industries are increasingly dependent on measurement and control systems to keep the process operating

smoothly and efficiently. Also more rigid clean air and clean water regulations require both industry and government to expand their monitoring and data acquisition systems, all leading to challenging careers for imaginative instrumentation technologists.

Instrumentation graduates are eligible for membership in the Alberta Society of Engineering Technologists after two years of suitable industrial experience. A journeyman certification in the Instrument Mechanic trade may also be obtained after acceptable field experience and appropriate qualification examinations.

## MATERIAL ENGINEERING TECHNOLOGY

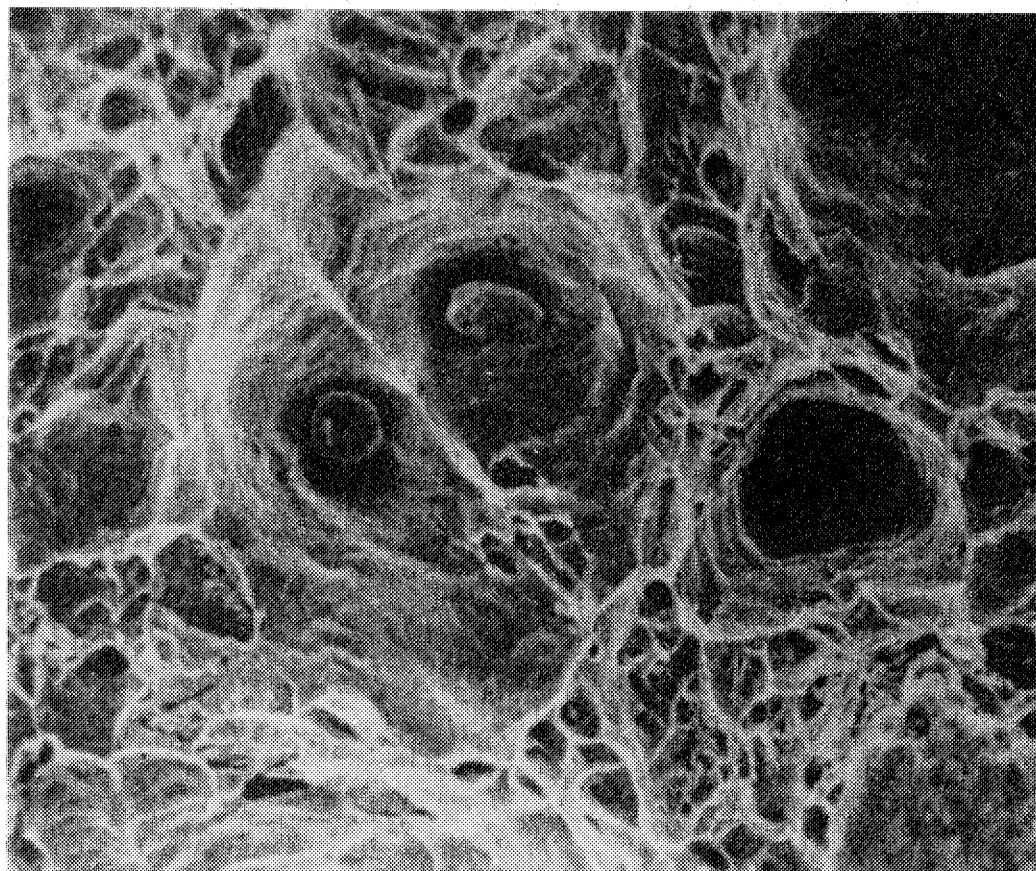
While at NAIT during OPEN HOUSE, make a point of visiting the MATERIALS ENGINEERING TECHNOLOGY LABS. They are located in the basement of G-Wing in Rooms G-5, G-9 and G-11.

Among our displays you will see NAIT's scanning electron microscope and metallurgical microscopes which are used to study the fine details on engineering materials such as steel, aluminum alloys, copper alloys, plastics.

You will see the ways that the strength and toughness of steel is measured. Technologists and engineers use such information to design and build buildings and bridges, power stations, airplanes, trains, trucks, cars, and virtually every other tool or piece of equipment manufactured.

In the MATERIALS ENGINEERING TECHNOLOGY labs you will also learn how invisible defects, such as, cracks, impurities, and porosity, can be detected in welds, forgings and castings by non-destructive testing methods.

Come along! Perhaps you'll even want to join us and prepare yourself for a career in an interesting and growing field in Alberta!



This is a photograph taken on the N.A.I.T. scanning electron microscope at a magnification of 2000 times. It shows impurities

on the surface of a fractured piece of steel. The gash figure is formed by damage, called fatigue done to the steel by changing

stresses when the material was in use.

# Biological Sciences

A profound increase in investigations of our environment has caused an enhancement of biological employment opportunities. Three different educational options provide background training at NAIT so graduates may apply for a wide range of jobs. This is necessary because some Biological Technicians are employed in laboratories, others spend part of their time in the field still others analyse aerial photographs and identify biological communities. These however are just a few of the opportunities open to graduates.

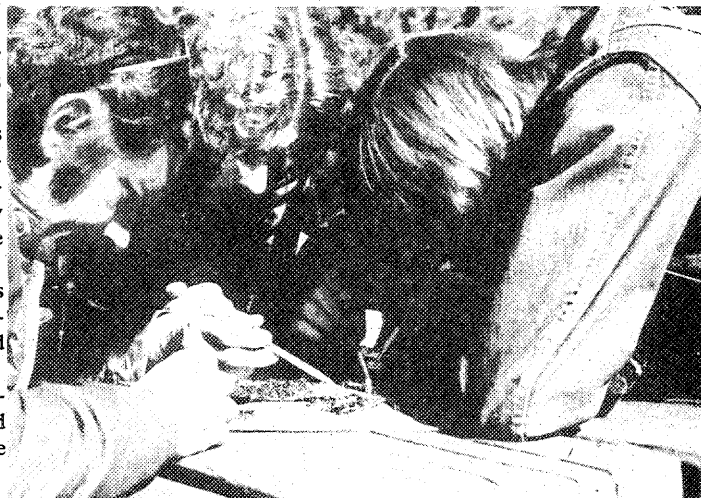
Students entering the two year Biological Sciences program all take the same courses during the three quarters in the first year. Then in second year they may specialize in Biological Instrumentation and Lab, Pollution and Environmental Science or Ecological Technology. The names suggest areas of employment for graduates of Biological Instrumentation and Lab -- may be employed in University Laboratories, serve as technicians in the forensic section of the R.C.M.P. crime lab or in other private or governmental agencies. Graduates in pollution and environmental science may do stack sampling, water and sewage analysis, or otherwise sample and analyze the environment for air, water and pesticide pollution.

Many of the graduates in Ecological Technology become Fisheries Officers or Fisheries Technicians, others work as Provincial and Federal Wildlife Technicians or Interpreters, Wardens or Rangers for Provincial or National Parks. Some even move into the field as game wardens, museum technicians or employees of horticultural research centers, hydrology branches and sections of the Department of Environment.

A rigorous course of study is necessary to get enough foundation in two years to be qualified for these many job opportunities. Because of this we suggest anyone thinking of entering the field have a good working knowledge

of chemistry and mathematics and be able to communicate ideas

both orally and in writing.



Biological Sciences students sort through a stream bottom sample in an exercise designed to acquaint them with aquatic organisms.



The level of dissolved oxygen.

A Biological Science Student tests the water of an Alpine lake for dissolved oxygen concentration.

## DENTAL ASSISTING

Have you ever thought of entering the dental profession for your career? If you have, NAIT can offer you an excellent course in dental assisting.

The dental assisting course covers ten busy months with classes in chairside assisting, radiography, anatomy, medical emergencies, nutrition psychology, business management, public health education etc. to put the theory learned into practice the dental assisting students attend the U. of A. and dental

offices to assist the dentists. Learn by experience is what NAIT is all about!

We also have a fantastic staff working with us to help us accomplish our dental assisting course. I strongly recommend the NAIT Dental Assisting course to any individual who shows great interest in the dental assisting field.

Come and see our display on the second floor, Room E203. Hope to see you there. A Present D. A. Student

## Learn About Health Record Administration

Our fantastic program is having their display on the main floor across from the Bank of Commerce. We will have lots of posters and a sample of a medical record for everyone to look at. Henrietta will be on display in her glass case so that anyone who wished to meet her will be able to. Any of the girls who are working at the display will do their best to answer your questions about our technology.

## NAITSA ELECTIONS

78/79 Term of Office

April 3-7

- President
- Vice-President
- Social Chairman
- Athletic Chairman
- Secretary

### Benefits:

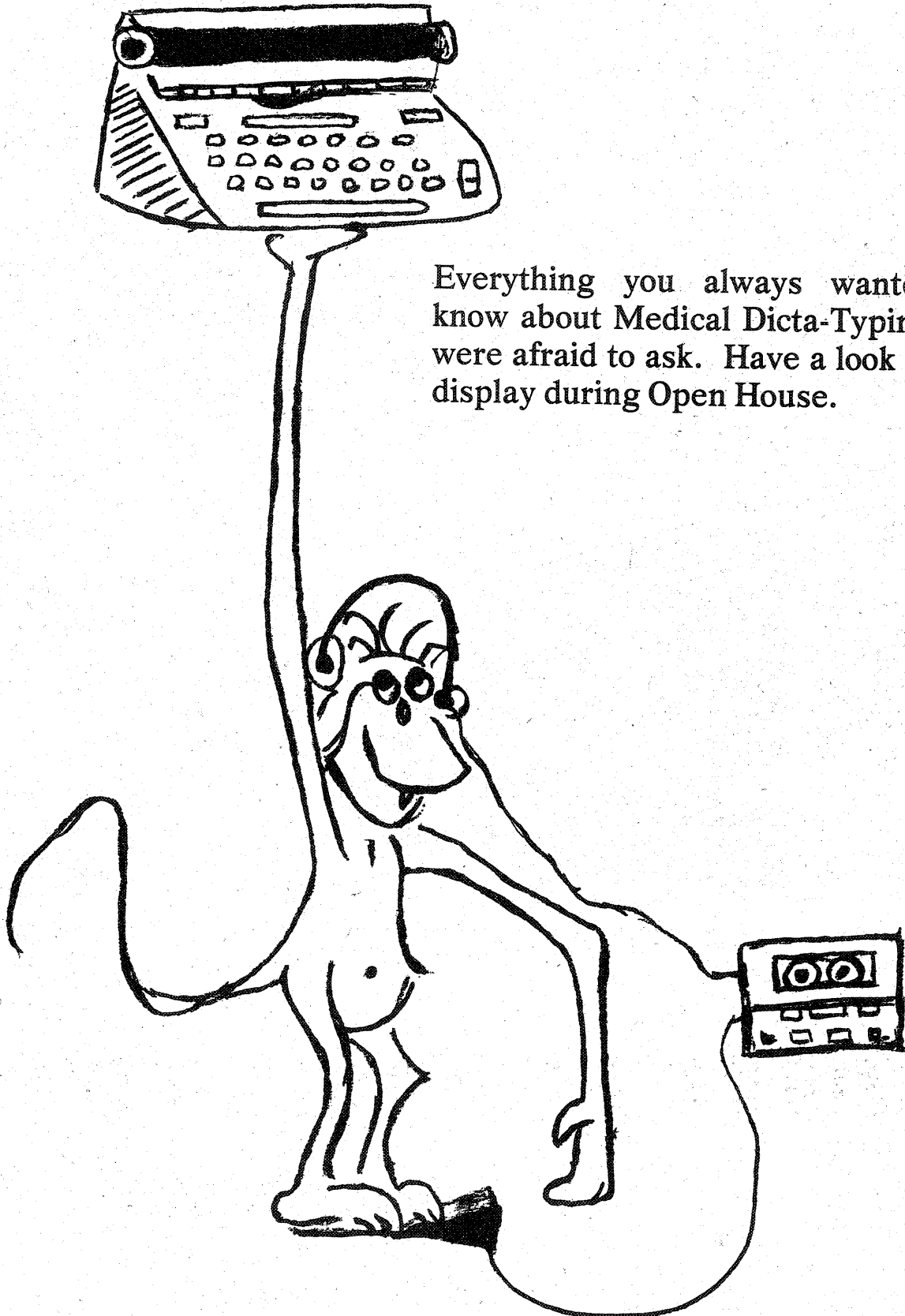
- \$85 salary per month
- Private office
- Private parking stall
- Free tuition fees.
- Excellent working experience
- Free admittance to all NAITSA activities.

Application forms available From Rod Laliberte, Vice-Pres. Naitsa (E-133) or from Student Services.



# MEDICAL-DICTA TYPISTS

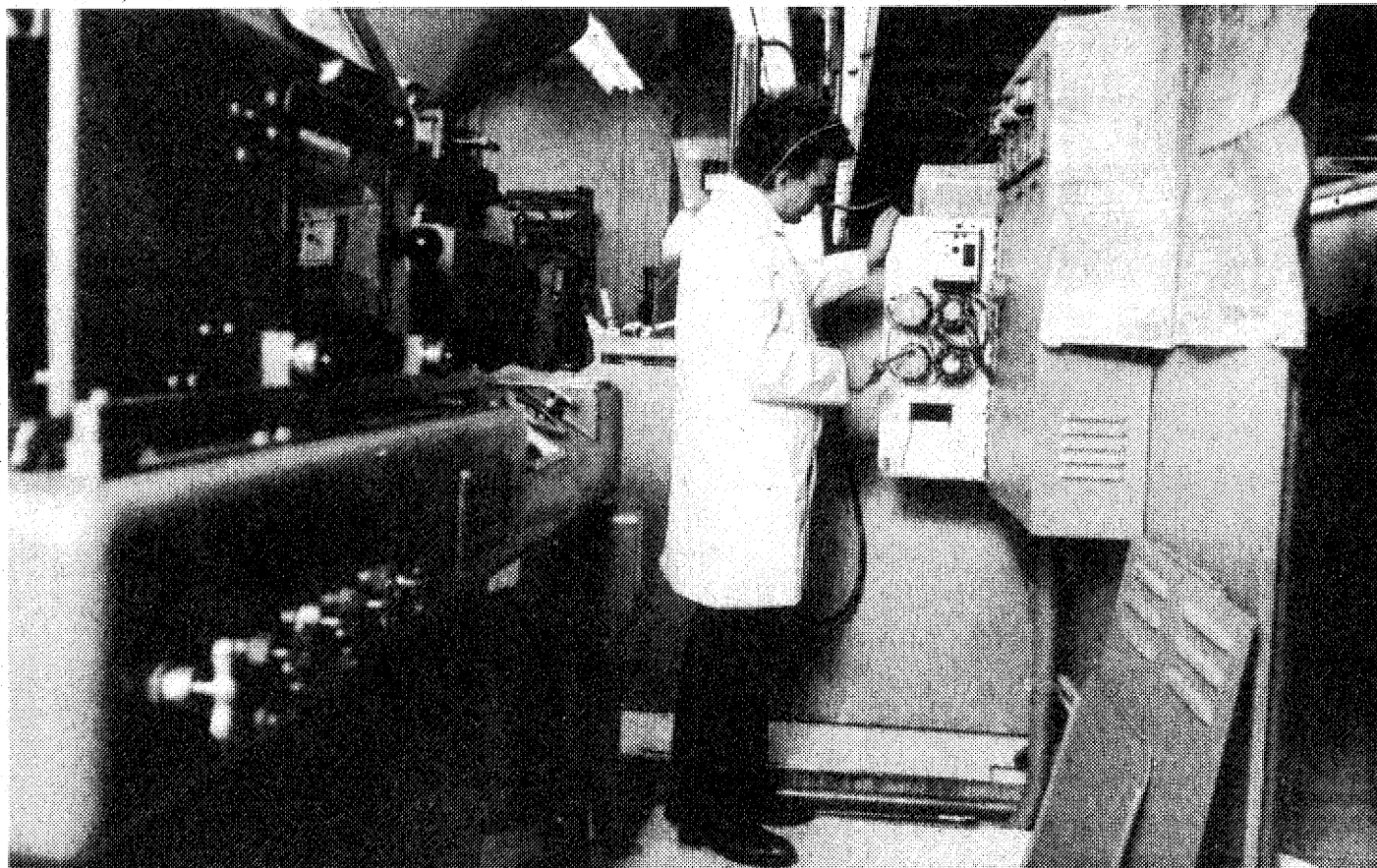
Page 29



Everything you always wanted to know about Medical Dicta-Typing but were afraid to ask. Have a look at our display during Open House.



# Plastic Engineering Technology



## Introduction

This is the Age of Plastics. Although the first commercial plastic came on the scene in 1862, it is only in the last 25 years that plastic materials have joined the more traditional metals, wood, paper and glass. Plastics are familiar in almost every facet of our lives, and in many cases are replacing traditional materials.

Now materials bring a new ideology. No longer do the materials limit the product, now the materials can be designed to give specific properties for a particular application.

From the nose cone of a space rocket to washing-up bowl, and from a foam cushion to a replacement heart valve, the uses of plastics are limited only by the imagination.

## What are Plastics?

In contrast to naturally occurring substances such as wood, asbestos and metal, plastics are man-made.

They are made from relatively

simple hydrocarbon molecules forming long thread-like chains. These long-chain molecules can be made to flow and take on a variety of shapes generally by the application of heat and pressure.

Plastics materials can be molded, extruded, cast, formed and shaped by many techniques.

One of the many ways of utilizing plastics resins is in the combination with other materials. The best known combination is that involving glass fibres -- FIBRE REINFORCED PLASTIC.

In the South Lobby an exhibit of FRP products is displayed. A video film showing some of the highlights of manufacture of glass reinforced plastics is also being shown at the exhibit.

In the PLASTICS PROCESSING LABORATORY, G8, in the basement of the Science Wing demonstrations of thermoplastics extrusion and injection moulding will be given.

In room E224 a film outlining Alberta's plastics industry and

the role of N.A.I.T.'s Plastics Engineering Technology program will be continuously shown. Come and see us!

## Industry and Opportunities

There is always a need for trained personnel but in the field of plastics the need is expanding as rapidly as the industry itself. The range of jobs available for trained Plastics Technicians is wide. Positions occur in Production, Research and Development, Customer Technical Service, Engineering and the Commercial fields. Typical opportunities might include Quality Control testing of raw materials or finished products, solving problems on the factory floor or setting up equipment for a particular process. The trained technician may be called upon to assist in answering a customer's problem or query on a plastics processing technique or material. Increasing demands are being made for technically qualified personnel as technical and sales representatives. These positions call for an interest in travelling, meeting

people and tackling queries in a variety of plastics applications.

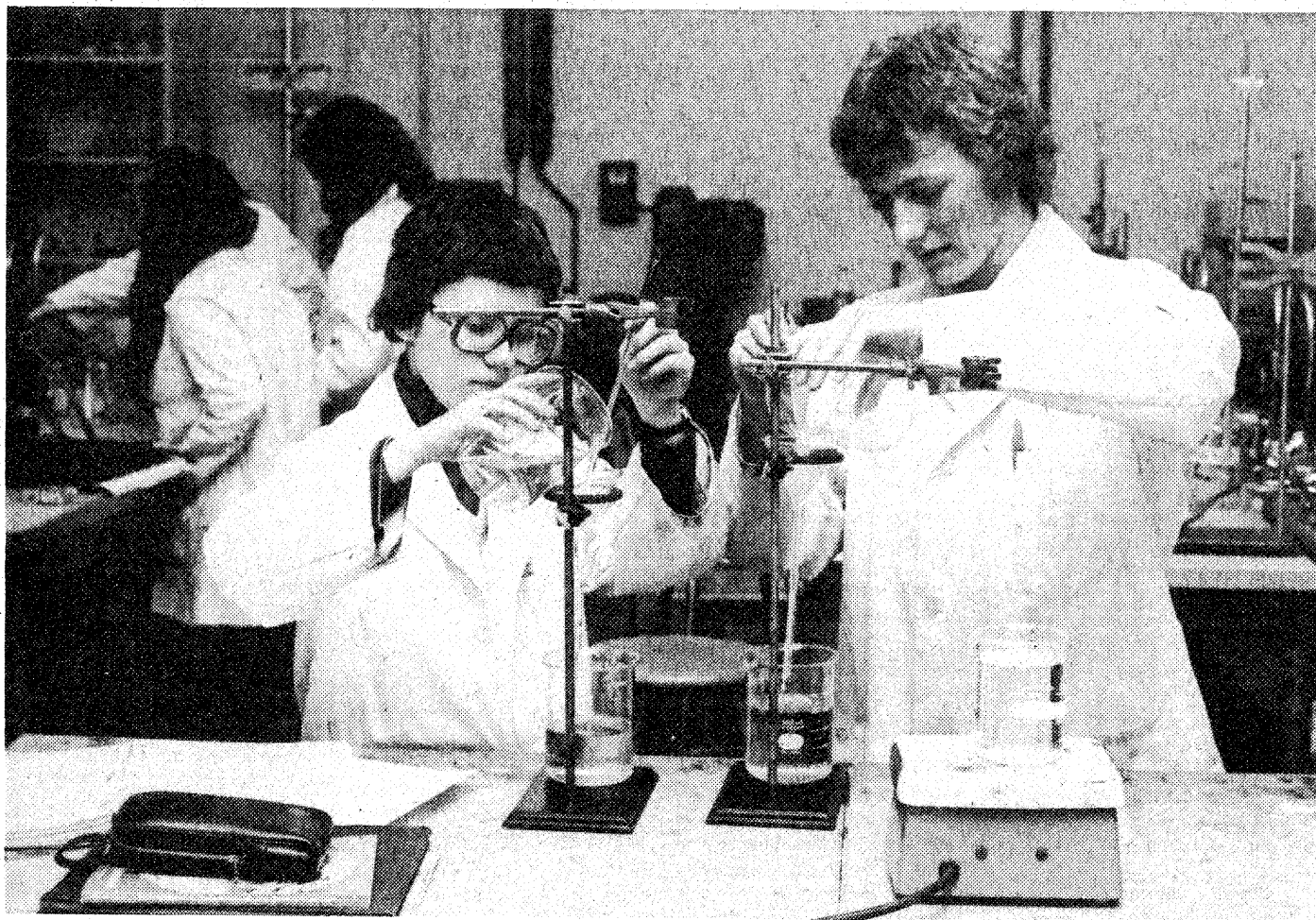
To this end the Northern Alberta Institute of Technology has designed a comprehensive two year course in Plastics Technology.

The broad aim of the course is to give sufficient background to the student to enable him to enter any area of the Plastics Industry.

Emphasis is placed on how the student can understand and appreciate his future employer's requirements and the need of the employer's customers.

The student will be given a good grounding in the basic chemistry and physics of plastics together with extensive cover of the properties, processes, applications, design-testing and commercial aspects of plastics materials. Practical processing and testing are also carried out in the laboratory.

# Chemical Technology At N.A.I.T.



Expansion in various phases of the Chemical industry in Western Canada has resulted in an increased demand for skilled chemical technologists. Employment opportunities exist throughout Canada for young men and women in many industries; petrochemical, tar sands extraction, petroleum and natural gas processing, pulp and paper, mining, food and beverage industries, commercial and research laboratories and a wide range of government agencies.

Chemical Technology program at N.A.I.T. provides a strong

emphasis on fundamental chemical principles, basic laboratory techniques and modern chemical instrumentation. It is designed to train technologist to work with professional chemists and chemical engineers in the range of jobs described above.

The first year of the program offers instruction in the basic branches of chemistry: inorganic, analytical, physical and organic chemistry. Tutorial sessions are scheduled to provide individual student assistance and to increase student-instructor contact. In the second year, students take a core

program of subjects combined with a choice of one technical option in each quarter. The option include basic chemical engineering, computer programming, microbiology and material testing.

This year, open House in the chemistry section will feature student displays of electroplating, production of cosmetics, glass-blowing, spot tests and second year student projects.

Activities will revolve around room G-110; highlighting glass-blowing and other displays and room G-109 where first and

second year students will be working on some interesting projects.

By the way, prospective student, there is still room in Chemical Technology commencing next September and job prospects for graduates are excellent.

All in all, this year promises to be an exciting program in the chemical area and we look forward to meeting prospective students, parents and employers. See you at OPEN HOUSE!

# Telecom The Star

The Telecommunications Technology will again be participating in N.A.I.T.'S Open House on the 17th and 18th of March.

The following rooms will be open on Friday from 9:00 A.M. to 9:00 P.M. and on Saturday from 9:00 A.M. to 6:00 P.M. for the general public to view:

1. A-184 (step-by-step Lab)
2. A-177 (Computer Lab)
3. A-176 (Basic Electrical Lab)
4. A-171 (Radio Lab)
5. A-182 (Sub's Equipment Lab)

Some of the displays being featured in the above rooms will be:

1. An actual working display of a step-by-step telephone switching system -- Switch Train
  2. Computerized games on the PDP-11 computer for the public to participate in.
- Displays involving microprocessors and C.R.T. terminals.

On the hour, every hour, for

approximately 15 minute, free calendars for the 1978 year will be available to the public via the PDP-11 computer and line printer

3. Electrical and physics experiments.

kiss-o-meter

4. Facsimile Display

Student built transmitter & receiver units

Student built 6-transistor radios  
microwave display

5. Various interesting displays courtesy of Edmonton Telephones & 3M, and Communications Tech Canada Ltd.

Cable Splicing display

Telephone and Cable displays

We definitely urge the public to attend as some staff members and students have sacrificed a lot of time and effort to make Telecommunication's part in Open House a success.

## 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 were 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 Pre Technology programs have achieved a

high success rate upon entering a technology. It is expected that future students from Pre Technology 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. Earth Resources
7. Electrical
8. Electronics
9. Eng. Design & Drafting
10. Hydrocarbon
11. Industrial Food
12. Industrial Heavy Equipment
13. Instrumentation
14. Materials
15. Mechanical Industrial Eng.
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:

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

1. Program A: is designed for the mature student with a minimum of formal schooling and for the student that needs a slower pace of instruction. Starts in September.

2. Program B: is for the student with some course credits from Grades X or XII. The instruction rate is somewhat faster than Program A. Starts in September and January.

3. Program C: is for the student who requires credit in specific course areas only. Starts at beginning of each month.

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.

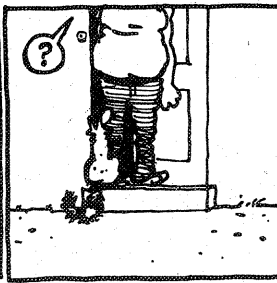
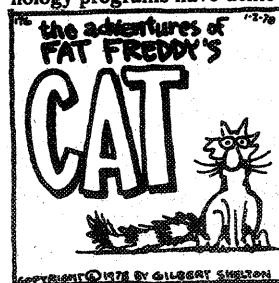
2. Physics--The objective of the Physics course is to help the student to develop his ability in using and understanding the principles of Physics.

3. Effective Communications--Course aids the students 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. Electives--these are available in the second and third quarters and consist of AC & Electronics, Chemistry, Machine Shop, Drafting, Basic Data Analysis and Sound. 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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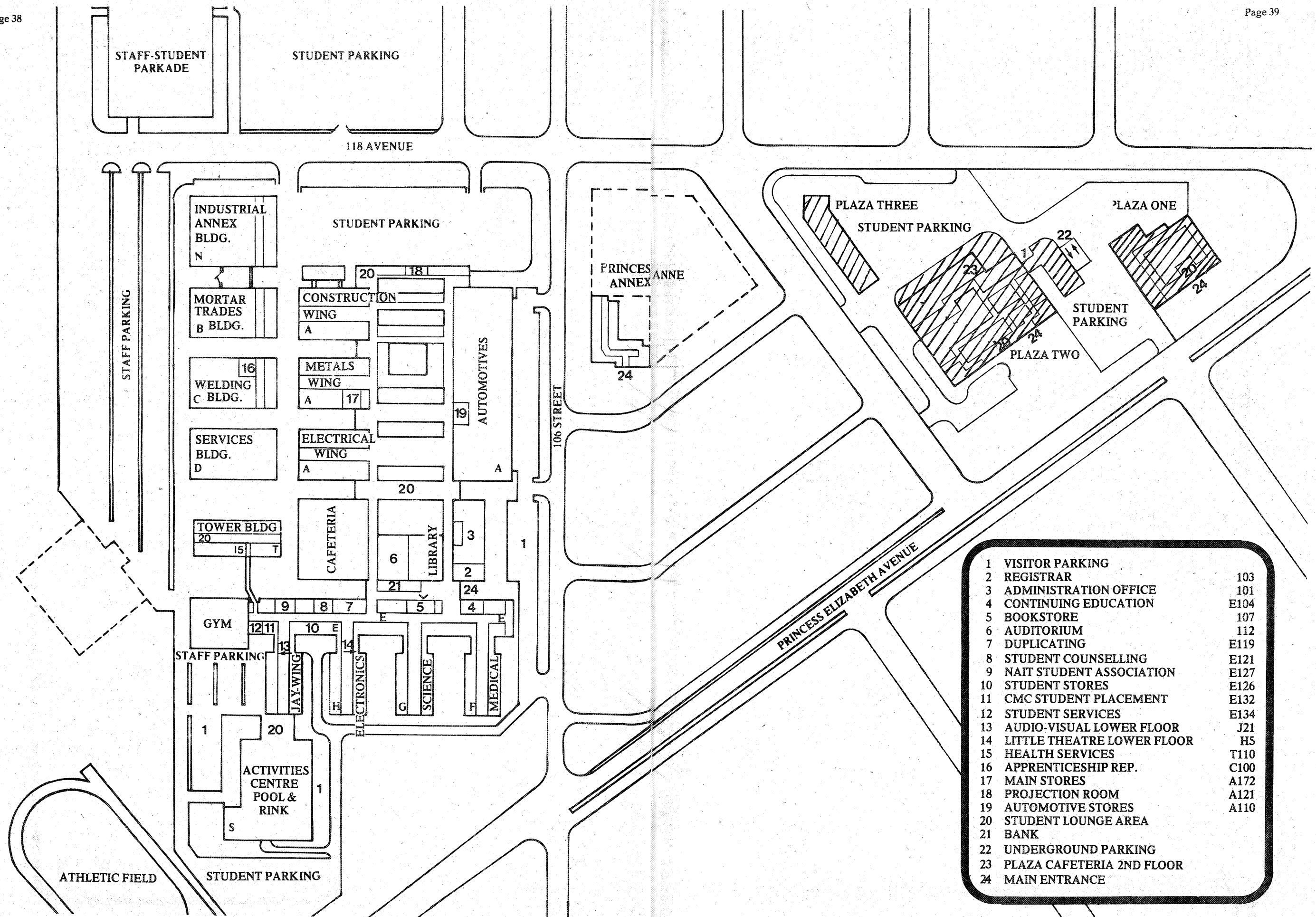
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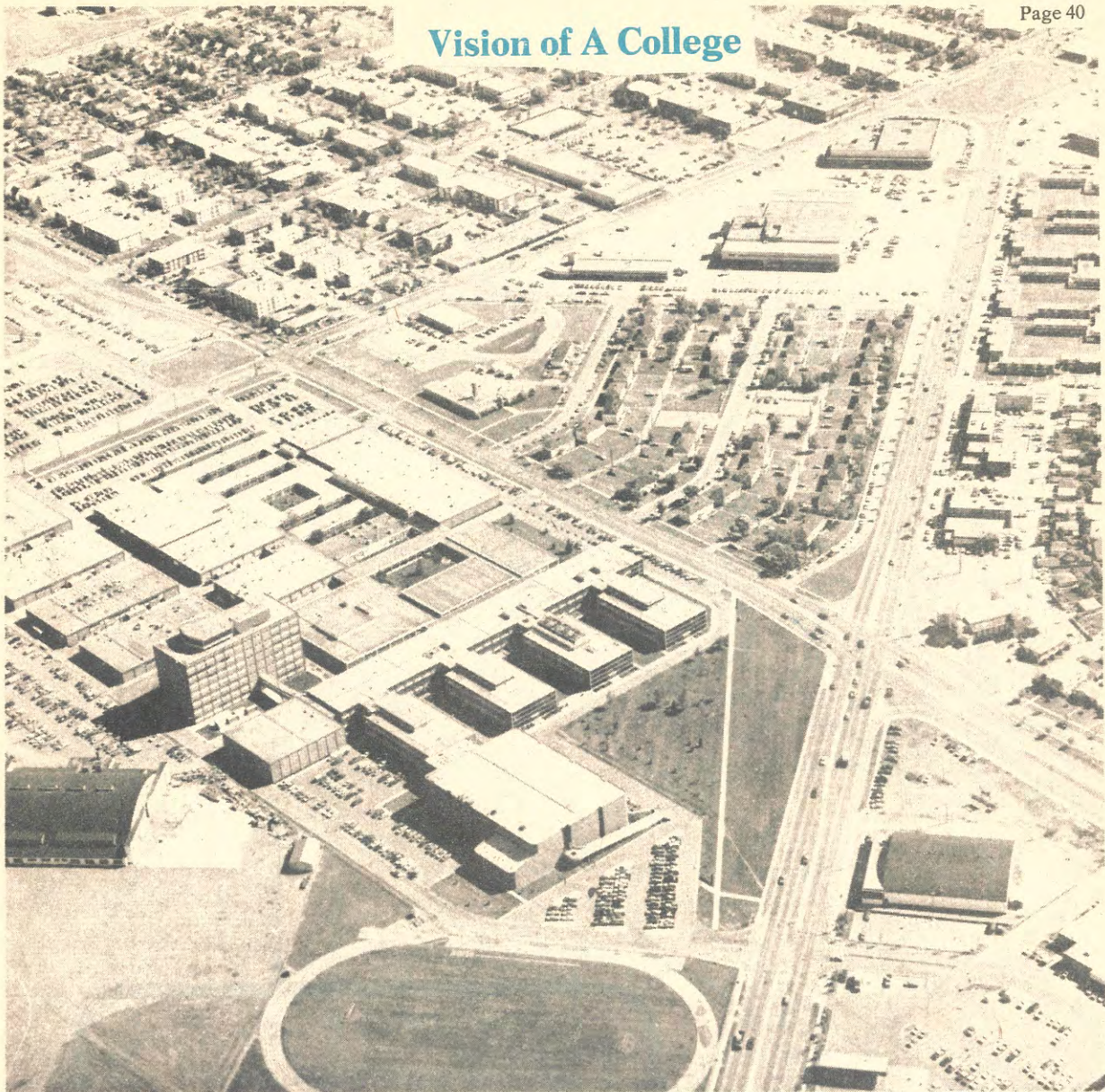
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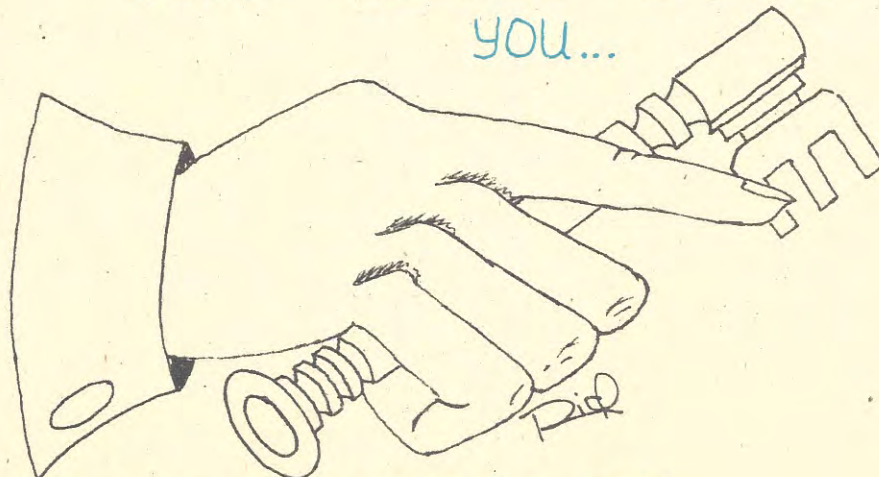




## Vision of A College



UNCLE GEORGE WANTS  
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VISIT OPEN HOUSE '78, THE  
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