

## SURVEY TECH.

So you want to be a surveyor!! Do you realize that you have to be patient, aggressive, have a terrific knowledge of mathematics and have a strong back. You may never be as comfortable as your neighbour is, working in his little office, but you will get your share of frostbite, wet feet, mosquito bites and blisters. How many people do know have gone wading in stagnant beaver dams, walked miles across soggy musket and had their faces slashed while trying to cut willows with a dull axe? If you have the guts to become a surveyor, then welcome. Don't be misled by thinking that this life

is one of solid hardships. Not quite. You may be working in the city near a nurses' residence, flying up to Melville and finding a raging blizzard, or having a riot pushing your four-wheel drive truck out of a creek.

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

surement.

But where are the shortcuts? There are always shortcuts in every occupation. You may think the course here at NAIT is one. Well, let me clue you in. If you are experienced in surveying, it is a waste of time and effort because the course is geared toward the man going for his professional status.

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

The main portion of the students enrolled in this course believe the extracurricular courses and non

essential courses should be dropped and a one year course offered which will give a person a working knowledge of problems which will be encountered.

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

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

his choice.

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

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

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

## TELECOMMUNICATIONS TECHNOLOGY

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

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

Graduate technicians will be able to carry out the various installations and maintenance programs in the field or will be able to serve in various supervisory capacities. Graduates can assist engineers in designing and testing the new components. Their basic knowledge of electronics enables them to embark on a variety of careers in the electronics industry.

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

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

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

Book and equipment should not exceed \$125 for each year. Out-of-town students may expect to pay from \$70 to \$85 per month for room, board and laundry. For those requiring accommodations, a list is available through the Registrar's office.

# Where would you be without your telephone?

Probably lost and relying on daisy petals to tell you whether or not he cares!

A telephone transmits the all-important sounds of love, comfort, safety and security. Just think how many times you rely on your phone.

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DEPARTMENT STORE

MOTHER FATHER DRUGSTORE

LOVE PRIZES HOPE GOODNIGHT



ALBERTA GOVERNMENT TELEPHONES

# YOUR PUBLIC RELATIONS DEPT.

This year the Public Relations Department has been involved in a number of school activities.

We began the year with Shinerama, following up with Santa's Anonymous, then we began our part for Open House 1970. Three other activities have been taken on by us during this time, the Blood Drive, Heartbeat '70 and a coming up blitz drive for the Canadian Cancer Society.

We have had much help in our endeavours by certain individuals but it is our wish that more students would participate in activities sponsored by their institute. It is often the case that the individual feels that he or she must receive some type of reward for their efforts. We would like to thank the students of this institute who have spent their time to help in helping the less fortunate in our society. We know that their personal satisfaction is all the reward they wanted.

The outcome of Shinerama was not what we had expected this year but under the circumstances that prevailed at that time it could have been worse. (I think.)

We would like to thank the student population and administration of this institute for their much needed and received co-operation for Santa's Anonymous. NAIT working with the combined efforts of all its technologies managed to purchase \$6000 worth of retail toys for the children of Edmonton.

Open House this year, as most of us are aware, is held on March

13 & 14. The Public Relations Department is in the process of setting up tours for this annual event. This year NAIT is going to take on tour 30 invalids from the Glenrose Hospital, we would also like to thank the students who have offered their help with these people.

NAIT's Blood Drive this year was up and over the quantity collected last year. This year the people of NAIT gave a total of 1023 pints of blood which was better than the 900 and some given last year. Although only 1023 given, there were about 1500 signatures on the register to the auditorium. We know that next year will be better and thank you for your drops this year.

Heartbeat '70 is a function being put on by the schools and institutes of Edmonton with the proceeds going to the Heart Fund. It is similar to the Miles for Millions Walk in that the sponsor pays so much for each lap that the person can dribble a basketball around the Victoria Comp. High School gym. Each represented institute is allowed to have five teams consisting of five members each. NAIT being Edmonton's second largest educational institute accepted this challenge. But because of the lack of student participation they will likely have to bow down and back out. As an advanced institute I and sure that we with your co-operation can present a better NAIT representation.

The Canadian Cancer Society

has asked for the help of 50 NAIT students to put on a two hour blitz fund raising drive in this area. We have accepted and hope to obtain the help of the needed number. The drive will be held on a week night during the second week of April. When this function is near we hope to receive your full co-operation, thank you.

We in Public Relations have also been arranging a series of four High School Visitations. These visitations are all in rural areas around Edmonton. NAIT students travel with U of A students to these areas and represent their institute. We have travelled on one of these visitations so far this year with three more coming up. We would like to thank the students who represented NAIT on this first visitation and left behind an impressive NAIT picture.

As director of the Public Relations Dept. I would like to thank the students of NAIT, the administration of NAIT and the following Public Relations officers for their help in projecting NAIT as a great institute.  
Mr. Dale Richards  
Mr. Gordon MacCalder  
Miss Val Lynn  
Mr. Grant Wilson  
Mr. Sonny Noga  
Mr. Ted Helboe  
NAITSA

As was in the past and will be in the future, your Public Re-

lations Dept. will be working as an arm of this institute, with the help of you, the student. To show the people as our public and the industries as our livelihood, that the Northern Alberta Institute of Technology produce stable and

well rounded citizens to fit into and advance the Canadian society.

Thank you.

J.C. Stimson  
Public Relations Director

## THE NUGGET

NAIT's controversial and usually outspoken newspaper is titled "THE NUGGET"! The newspaper staff endeavors to print up-to-the-minute news involving local and national situations. Recently the newspaper has obtained seats at the Legislative Press Gallery, and the City Council Press Gallery. The Nugget will also use news supplied by the Canadian University Press, which will give NAIT students closer ties with other universities and technical institutes across Canada.

It has editorials, features, sports, student columns, humor columns, columns designed for the female portion of its read-

ers, and is always bringing to the students of NAIT up-to-the-minute coverage of what the NAIT Students Association is doing or is not doing for the students.

The Nugget will be brought out this coming year on a weekly basis. Many hands, minds, and mouths are needed to make such a project worthwhile and successful. The newspaper offices are located in E-128. Anyone who has worked on a newspaper before, either professionally or at the high school level is invited to try his or her hand at making the Nugget more stimulating.

Just drop down to the Nugget office anytime - we're always glad to see you.



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## JUST WHAT IS THE REGISTRARS DEPARTMENT

It is considered the focal point for distribution of information, receipt of applications and verification of qualifications, acceptance of applicants, and the academic record centre for all students. We are also the co-ordinators with the Students Assistance Board of all loan applications.

The calendar and other related information is co-ordinated and printed in January each year for the classes which commence in September. This information is free and is distributed to the interested public, high school students, counsellors, employers across Canada, as well as interested applicants from other countries.

4,700 applicants were received for the 1969-70 term. 6,000 from letters and 3,000 personal letters were sent to these prospective students providing individual guidance. The distribution of 20,000 calendars took place in the last eight months plus hundred of other inquiries. In the event we do not offer the program desired, every attempt will be made to provide some guidance regarding other Technical Institutes and the programs available.

2,700 students were unsuccessful in their attempts to be admitted for the 1969-70 term. This does not mean that the 48 programs offered at NAIT were full, but it does indicate that there are some

extremely popular programs which received up to 300 applications for a maximum of 40 positions. 26 OF THE PROGRAMS WERE NOT FILLED, although there was every indication that employment opportunities were good.

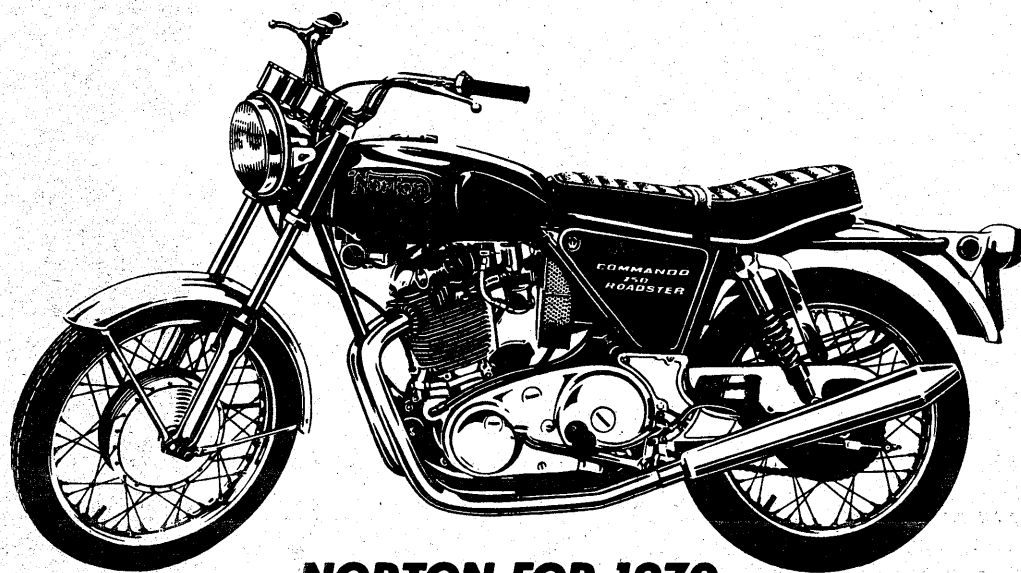
The anticipated enrollment for the 1970-71 term is 3,500 Technology, Business Education, and Industrial Division students. In addition, there will be up to 1,200 apprentices at any given time for periods of 6 to 12 weeks, and since these are rotating constantly a maximum of 5,500 apprentices will receive training during the year.

It takes initiative on the part of the individual to seek information, to speak to prospective employers, to get all the information possible in order to make a wise choice of training to a future vocation. It is then necessary to obtain admittance and, of course, applying oneself to the task of making a success of the training. The technical field is growing constantly with many opportunities but you must do something about it.

NAIT presents opportunity for: A Career With A Future, Career Advancement, and Security in Today's Society. Any questions? Well, do not hesitate to contact us. 479-8471.

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# EXTENSION DIVISION

## Extension Division NAIT Meets The Challenge Of The Seventies

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

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

Credit courses and programs are offered in the fields of: Archi-

itecture, Biological Science, Business, Chemistry, Civil Technology, Construction, Drafting, Electronics, English, Gas Technology, Industrial Practices, Instrumentation, Materials, Mathematics, Physics, Radio and T.V. Arts, Social Services, Surveying, and Telecommunications.

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

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

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

The main objective of this division is to provide technical training for adults; adults who for various reasons did not complete a formal education; adults who wish to continue with their education on a part time basis; and also to work in close cooperation with other

educational bodies so as to provide maximum training opportunities for those adults.

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

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

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

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

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

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

day diploma.

To develop a full scale Summer School program.

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

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

To assist those who seek occupational advancement.

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

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

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

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

## TOASTMASTERS CLUB

NAIT Toastmasters is affiliated with Toastmasters International, a non-profit, non-partisan, non-sectarian, educational organization of Toastmasters clubs throughout the free world. These clubs have a membership of 73,000.

What is the Toastmasters Club Program?

The Toastmasters club program provides its members to improve their communication and leadership abilities. The club program includes:

- Opportunities to learn by doing
- Opportunities to gain experience as an officer of an organization
- Parliamentary training and experience in a club environment.
- Opportunities to conduct a business meeting
- The planning, arranging, and conducting of a meeting.
- Experience as a master of ceremonies or toastmaster.
- Impromptu speaking
- Presenting prepared speeches
- Experience as an evaluator

Those and many other opportunities to develop executive potential are presented in the fellowship of an organized group of students - the Toastmasters club. The club holds its meetings every Tuesday evening at 6:30 in the North Cafeteria. Come out and join us as guests or potential members. You'll be fully welcomed!

## CANADA MANPOWER CENTRE STUDENT PLACEMENT OFFICE

The Student Placement Office is a Canada Manpower Centre on campus of the Northern Alberta Institute of Technology. Its function is to provide facilities and schedules of employment interviews for the placement of graduate students in rewarding and satisfactory employment.

It is our purpose during Open House this year to re-emphasize for industrial and professional organizations the quality of the graduate students, their usefulness in the technical and business field, and the immediate availability on graduate of many well trained and capable students. To accomplish this purpose, we will welcome enquiries at any time and will make informational available on the labour market generally and on any specific matters, such as average of wages for graduate students and the numbers who will be available for employment on graduation. We would like the opportunity to discuss your personnel problems with you and can, if you wish, provide the opportunity for you to see the student at first hand during his training and to contact senior instructors and other institute personnel so that you may have full information available to you in meeting your labour requirements.

Industry has become increasingly aware that we have many undergraduates available for summer employment, and that

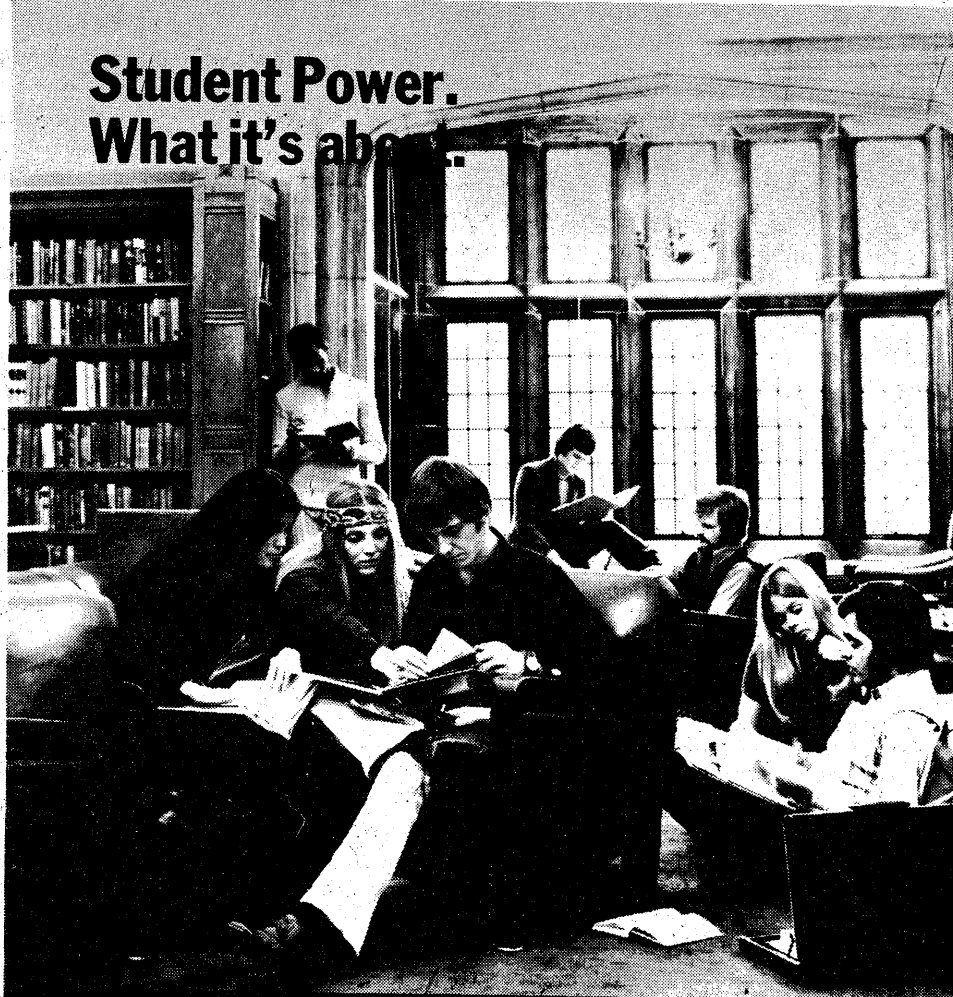
ness and Industry to communicate with us for assistance in filling your summer personnel needs. As with the graduate student, we can make facilities available and set up a schedule of employment interviews.

For the student, we provide guidance and counselling to assist you in reaching career decisions, and the opportunity to meet employers and to make employer contacts, and to be able, at first hand, to assess the potential of the employment that is offered. We provide a library of reading material to assist you in career planning and we also have a number of brochures from all of the larger industries who visit the campus.

All enquiries should be directed to Mr. Norman McLeod or Mr. Bob Rickenberg at the Student Placement Office, Room E132, at the Northern Alberta Institute of Technology. The telephone numbers are 474-7371 and 479-6256.

1969 saw the completion of seven additional interviewing rooms for the use of employers to recruit graduate and undergraduate students. These additional rooms were required to meet the tremendous acceptance by industry of NAIT students. These students, having had a year of training in their technology, can be most usefully employed.

## Student Power. What it's about.



It's about the more than half a million students who will be looking for summer jobs this year. The jobs they need to continue their education. These young people have a lot to offer employers. Good brains, sound bodies, and a lot of ambition. Last year, post-secondary students received \$300,000,000 in income from summer jobs.

They earned it. This year, there'll be even more students looking for summer jobs. They will be tomorrow's graduates and your full-time employees. So chances are that the student who learns the ins and outs of your business this summer will want to stay with you after graduation. For an employer, that's what student power is.

## Hire a student this summer.

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# MUSIC

By HOLGER PETERSEN

## JORMA KAUKONEN JEFFERSON AIRPLANE

H.P.: Last night when you played the Agrodome, you played for two and a half hours, do you usually play that long?

J.K.: Usually, whenever we can. H.P.: Somebody told me that in your contracts, you always specify that you won't play under two hours, is that true?

J.K.: It sounds reasonable. I don't know, it's quite possible, we have a lot of stuff like that in there. H.P.: I don't know if I should actually bring this up but your group in particular have seemed to have suffered from a lot of busts and different charges and everything, how exactly are they coming. Are you in any danger? (The Airplane were busted again on a narcotics charge 3 days after this interview).

J.K.: Not right now. No.

H.P.: You managed to beat them?

J.K.: More or less.

H.P.: What were they? I've heard of some drug charges and of creating a disturbance.

J.K.: Well, disturbance charges aren't usually very serious, they usually just involve a fine. With us, they are always due to places we are playing and cops wanted to close down and go home so we have to stop playing and one thing leads to another.

H.P.: Do you still do a lot of free gigs?

J.K.: Yes, whenever possible.

H.P.: That's really great. Most of the groups today aren't like that. Is this the attitude still around San Francisco?

J.K.: I know we do. The Grateful Dead do. A lot of the San Francisco groups do and probably a lot of groups in other cities do too, I don't know, whenever the weather permits.

H.P.: You prefer playing outside a lot more than inside.

J.K.: Well, it's a different sort of a trip. You can't hear as well. Playing, musically wise is sometimes more difficult to play but vibes wise it's often better.

H.P.: You've got a new LP coming out or being released in Canada anyway, it might be out in the States, I don't know.

J.K.: It's not out yet.

H.P.: It's coming out next month, is it?

J.K.: Hopefully, unless something happens.

H.P.: Wasn't it scheduled to come out in June?

J.K.: Yes, it's been finished for about four months but the original title of the album was "Volunteers of America". There's an organization called Volunteers of America which I understand is a right-wing group along the lines of the Salvation Army and they objected to the use of their name. We went through a lot of bullshit trying to figure it out. Now it's just called "Volunteers". You can fill in the rest yourselves. It should be out soon.

H.P.: Who did the cover for it?

J.K.: The cover is done by a number of friends of ours. All the art work and the layout was done by a guy named Gut. He used to manage Blue Cheer and he does a lot of things like that. It was put together by various other people. It's done like a newspaper.

H.P.: Is it a foldout with more than one page in it?

J.K.: Yes. Information, columns, a comic strip.

H.P.: What's on the album?

J.K.: A couple of songs that we did last night, one called "We can be together" and one called, I don't know whether Paul called it "Volunteers of America" or "Revolution", that's on there. There's one one there that I did, it's sort of an electric version of an old folk song. A bunch of different stuff. There was a couple tunes. H.P.: There was one couple that you did last night that I was really impressed with. It started out as kind of a bluesy thing and then you went into double guitar harmony bit and you built it right up until the end. What was the name of that one?

J.K.: It was just a thing. It worked pretty good. Sometimes the things work really good and sometimes they don't. It depends on where everybody's head is at.

H.P.: Are you going into a kind of blues direction at all?

J.K.: Well, we're not becoming a blues band if that's what you mean. I played blues before I played this and it creeps out of me now and then. But I never played electric blues before this so it's not that sort of thing.

H.P.: Did you play the bottle neck?

J.K.: No, I never learned bottle-neck, I just used to do finger-picking. I've been thinking of learning bottleneck though, all that stuff it's really nice. But it's easier to get somebody to show it you than it is to teach yourself and the guy who I want to show it to me is in the nuthouse right now so I'm waiting for him to get out.

H.P.: You and Jack Cassidy have been doing a lot of playing around San Francisco on your own, haven't you?

J.K.: Yes. We just made an album, in fact, for RCA. It should be out in February, I think. It's acoustic guitar with me singing and Jack playing electric bass and a harmonica player.

H.P.: Just the three of you?

J.K.: Yes.

H.P.: Who's the harmonica player?

J.K.: His name is Will Scarlet, a weird guy from Berkeley, a really good harmonica player. He plays one harmonica in all the keys, he doesn't change different keys. He also tunes it too, depending on who he's playing with. He's really into this music theory business depending on who he's playing with, the way he tempers or untempers his harmonica scale, he changes reeds between songs and does all

sorts of weird stuff.

H.P.: Are you playing together as a three man group at all?

J.K.: Not really, just sometimes. We just did it for this album and then whenever we get together. Jack and I are going to be working back east when the Airplane goes on tour in November. We'll be doing a part of a week at the Cafe Go-Go and we'll probably play in New York and we'll probably play in Boston in some clubs and things like that.

H.P.: Are you doing anything with a drummer?

J.K.: Yes. We've done some things with a drummer, but the one that we've done now doesn't have any drums on it for the simple reason that we wanted to do something well enough that they could record it live. I've been playing a lot of this stuff for about 10 years and Jack's been playing ever since we've been around.

H.P.: Are these all traditional?

J.K.: About half of them are traditional and the other half are original. We didn't want to get involved in a studio trip. We wanted to do something that we wanted to do and get it out of the way. We have been working with a drummer, we're going to do another album in December I think, an all electric album.

H.P.: Your album's coming out on RCA Victor.

J.K.: Yes, right.

H.P.: I understand that you, the group, and RCA Victor haven't been getting along that well for some time.

J.K.: Well I don't know personally because I don't usually have much to do with that stuff, I don't think any group gets along well with their record company. I mean, even the good ones are complained about. RCA does a lot of bad stuff, but on the other hand, Jack and I have been treated really well by them. With out record they said that we could do anything we wanted to. I think that it will be more profitable than the Airplane contract. Our own personal contract is much more desirable than the Airplane's contract.

H.P.: What kind of contract did you get initially?

J.K.: Oh God, I couldn't even begin to go into it. At the time it didn't seem bad, but in the light of what groups are getting now it just doesn't make it. You're talking about a nine months out of the year thing.

H.P.: Are you still practising at 24 Fulton Place? I read this thing in Rolling Stone. It sounds like a fascinating place.

J.K.: Yes. That's where a bunch of people live. Paul lives there and Spencer lives there, I lived there for a while, my house burned down. We have a studio in the basement.

H.P.: Do you do any recording there?

J.K.: Well we have. Actually the band hasn't recorded there. Marty's been producing a group from Berkeley and they've been recording there and have been getting really nice quality tapes.

H.P.: What's the group's name?

J.K.: I don't know. I don't think that they really have a name, it's really an amorphous group, it's whoever happens to show up. Whoever the dominant character is, he gives the group a name for that night. I suppose that when they get all the tunes together they'll have a name, but I've heard about four or five. There's a girl named, I don't know her name, she's the guitar player's old lady that's all I know. A really good singer, the guitar player and then another guy named Al Silverman and various different guys come in and play piano and drums and things. They do some far out stuff. That's about the only recording that's been done. We usually record rehearsals.

H.P.: Do you find it a lot easier now after almost three years of the big time, is there a lot of pressure on you still?

J.K.: Not really. I think there's only pressure on you if you let there be pressure on you. This is the second weekend that the Airplane has worked in about three months, we haven't worked very much. I can't figure out why in retrospect. We've been rehearsing a lot in the last two or three months and then Jack and I have been playing, so the way it's been working out there that we don't do a lot of one night stands and things like that where I think the real grind comes in.

H.P.: The first time I saw you on television was a CBC thing from Toronto. I was really impressed by the way it was done and the way your group came across.

J.K.: That was the best show that we ever did I think. The reason was, I don't what the difference was, but the guys that were working in that studio, the Canadian technicians, were a lot cooler. There wasn't a lot of this high pressure stuff, time is money and things like that. They just sat down and took their time and really made an effort to make it come out good, that's what the difference is. Those American network TV things are so conscious of studio time being worth whatever it is, that they don't give a shit what you do. They just want to get you on, get it on camera and get you out again. They are really unreceptive to ideas about lighting and sound, they're just horrible about sound. Most TV studios don't have the facilities to record multi-track things where you can really get a nice live sound but it can be done if you take the time to do it but they usually don't want to. Yes, that was a really nice show.

H.P.: Are you planning to do any more? Have you had any more offers?

J.K.: From CBC?

H.P.: Yes.

J.K.: I don't know. I don't think so but we haven't been in Canada for a really long time and you know when you're not in a place, the connections sort of go away. You really have to be right there. We may play there again, who knows.

H.P.: Do you find the American atmosphere about the same as the Canadian atmosphere? Is there any change when you come up here?

J.K.: Yes, the air's cleaner. I don't know. It's different in a lot of ways because it is different. I can feel it because I'm in another country. I'd like it a lot better in respects if it had the climate of San Diego or L.A. It seems to be a lot looser up there, but I don't know because I don't live here. It's hard to tell where a place is at unless you spend about six months there, get kicked around by the cops a couple of times, you know, and find out what's really going on. But let's put it this way, I've always had a good time when I've come up here.

My parents live in Ottawa. It's sort of a slow town but there's a lot of pretty buildings there.

H.P.: Grace's husband's making a film, or is he? Has he finished it?

J.K.: There's a lot of things I don't know. He's been working with some people in San Francisco and they've been working on a number of films for some time and I've seen some of the clips from them and they're really good but I don't know if they've ever gotten together or not. As far as I know he's in Japan now working on it, so who knows what stage of development it's in.

H.P.: Do you know what kind of film it will be, a documentary or anything?

J.K.: No, the only section that I saw of it was what they did going across the Golden Gate Bridge with a camera attached to some proposterous part of the car. The film really is far out looking. It's like a light show with the paralleled lines on the bridge. I just looked at it, it was a trip, there was no sound to it, I didn't know what they were up to.

H.P.: You've done some other film work like with Jean Luek Gidard I'm from Edmonton and the show hasn't been there. Has it been released?

J.K.: I don't think it's been released yet. I think it's going to be a pretty far out movie. We just did a segment of it and the way it was run, there was a thing of us playing in New York. I think Eldridge Cleaver is in it and then there's some bits that Rip Torn does doing happening things with kids from ghetto areas. He'll put on a general's costume and then he says "When I come in the room I want you to react any way you feel". He does all these different bits and then the kids do things, throw things at him and all this kind of stuff. It's pretty interesting. I really like Gidard.

H.P.: What kind of movie is it?

J.K.: It's a Gidard Movie.

H.P.: A what?

J.K.: Have you seen any of his things?

H.P.: Films are a personal statement and his personality's very strong and you can see it. There's continuity in all his things, I think. You ought to go see a couple of them.

H.P.: We don't get any up north. It's too bad. We seem to be kind of remote.

J.K.: Well, "Weekend" is one of his things that is good. I've only seen one of his that I didn't

Continued on page 21





JORMA KAUKONEN-LEAD GUITARIST FOR JEFFERSON AIRPLANE

## JEFFERSON AIRPLANE CONT.

Continued from page 20

like. Some of them are better done than others but they're all a lot of fun. He's far out.

H.P.:Is he like Warhol?

J.K.:No. How did you mean that, like in content?

H.P.:Yes. I've seen one Warhol movie when I was done in the States.

J.K.:Which one?

J.P.:Nude Restaurant.

J.K.:I haven't seen that one. Well, Warhol seems to have gotten into a new bag too. I've seen a couple of his recent ones like "Lonesome Cowboy" and "Flush" and they were done like movies. They had sort of a tenuous plot and there was dialogue. There wasn't just getting hung up on lint and that, they were really far out. He doesn't do things like that. He does, but you feel that they're being political. You don't notice a lot of isoteric camera angles and technique and things like that. He's into a whole different trip quantity-wise. I don't think that political is the right word but that's the thing that they are. I saw another one of his old ones recently called Perro LaFarey. It was really enjoyable. It's got this one great scene in the end where Del Monto kills himself by putting this crown of dynamite around his head. He did another one with Ray Constantine called Alpha Six. That's really great. Did you ever see any of his old Eddie Constantine thrillers? He was an American guy who went to France, learned to speak French and made hundreds and

hundreds of these spy things. Well anyway, Gidard made this thing called Alpha 6, a science fiction movie. You go from galaxy to galaxy by going over mazes of roads. His whole thing is trying to destroy this computer named Alpha 6 that controls the whole Alpha territory. It's far out. Some of his stuff has been in the International Film Festivals that come to Vancouver. The latest one he had in was "Week-end" and it was sold out.

J.K.:Yes, it was really a treat. H.P.:What's the felling like in San Francisco now compared to the summer of '67?

J.K.:Well, it's hard to say because I think that everybody is in a little different play. Then, everybody was hanging out and now, most people don't hang out as much because they are doing a lot of things. I was talking to somebody about this last night. I think that if you were to go to San Francisco now you wouldn't go to Haight-Ashbury, that's for sure. The scene has changed a lot, a lot of people have gotten older, had kids and all that sort of baloney. I think it's still pretty loose, I enjoy it. I always feel really comfortable when I'm there and there are a lot of things happening. I think there's going to be a new wave of things to start coming up now, like there are a lot of small clubs that are beginning to open and this gives a lot of young musicians a chance to play. Jack and I have been playing alot more, because they don't expect you to play "White Rabbit" or

something like that. You just go and play. I've been hearing a lot of new bands and musicians. I think there's going to be a new wave of things, it's going to start to grow.

H.P.:What about Jamming? Do you like to get into other people's music?

J.K.:It's desirable, it's really imperative. If you don't, your own music gets too introverted. The band was working hard and didn't hardly have the chance except we would work a gig and then afterwards we'd go to a club and jam, but most of the time it gets into just a lot of high-power playing and you don't really get the chance to get into anybody's else's music, everybody has their own thing out front. But it's nice when you can just sit down and somebody will teach you five songs and it will be a whole different trip. My brother's a guitar player, he's living with me now, and he's into a whole different trip, he's much more jazz oriented than I am and I do a lot of his tunes when we play together and I get a whole new insight into it.

H.P.:You've been playing some sitar too, haven't you?

J.K.:I have one, but I don't really play it. I just mess around with it. I have a kodo that I'm a lot more interested in. I don't play it, but the instrument is much more receptive.

H.P.:You seem to be an experimenter, to use the term that was used in the book of the Jefferson Airplane. Are you working

on anything now, any particular sounds?

J.K.:You can't work honestly on sounds but it depends on what you are interested in. Like you go through a thing where you will be interested in Indian music and that will be influential. I listened to a record the other day by a vina player from South India and it's incredible, it's a rock and roll record. The drummer is doing the same kind of stuff as rock but it's far more complex but it's easy for a rock and roll musician to relate to. I listen to this guy play and sometimes I can pick his things right off on the guitar. I went through a thing once where I was listening to a lot of kodo music. It's whatever you get interested in.

H.P.:Do you do much studio work?

J.K.:Not really, you have to read well to do that and I don't read very well. So if I ever did, it would be just doing it for friends. My brother does a lot of studio music but he reads a lot.

H.P.:Who does he work with?

J.K.:Well, there's a girl named Ruth Anne Freedman who wrote that song "Windy" but she's basically vocal oriented, she's with Warner Brothers, I think and he did some playing on that. He did some work on Van Dyke Park's new album. That whole studio scene is far out. It's really a business, you go in, break out the old tunes.

H.P.:Do you think that there's going to be a new thing in music. Like the Blind Faith, where you do a tour and then one member drops out and another goes in. J.K.:Well I don't know. I don't think so and the reasons I don't think so is because I think it really takes a year for a group to get together. To a point where it's more, it has nothing to do with being a good musician or not. Like I know that when the Airplane, the way we write songs usually, is that somebody will write and song and we'll learn it and rehearse it and maybe play it a couple of times at a concert and record it. And then,

maybe about two months later you start to get really loose in it. So the way I look at it, if we could record it and then listen to it and play it for about two months and record it again it would be really great, but it doesn't work that way. I don't think that musician thing is going to happen because the music tends to get very esoteric and basically, when people go to hear people play they want to listen to tunes. You can't just whistle, but you want to go and hear more than just a bunch of individual ego and when it's all happening together, it really makes it but it takes time.

H.P.:Are there any other groups in San Francisco now that you are really digging that you think are really going to make it?

J.K.:Well, there's a group in San Rose called Weird Harold and they do some things that are real good. It's a trio, it's just drums and two guitars but it sounds like a four piece group. They really do some far out things. Crosby, Stills, Nash and Young have moved to San Francisco now and I don't think they'll have any trouble making it. I think that now there's a lot of groups splitting apart and others getting together. It's really, as far as I can see, a lot like San Francisco was when we were just beginning. I think that within the next six months a lot of new groups will be emerging. H.P.:What is your professional opinion of the group Jango, that you heard last night?

J.K.:They did a lot of stuff that I liked but I tend to get bored listening to that kind of music after a while. They were playing really well, it's just that they were always playing at the same level. I really liked a lot of blues type stuff that they were doing. If you're tripping you can get really hung up on that other stuff. They don't have a bass player either. J.K.:You didn't really feel the lack of him?

H.P.:No the organ player helped. J.K.:Was he playing with his feet? He sounded far out.

## RECORD REVIEWS

HOLGER PETERSEN  
AMERICAN WOMAN - The Guess Who  
RCA Victor LSP-4266

This The Guess Who's third album for RCA is easily their best yet. On their first two, the group tried a number of different styles and were successful at most. On American Woman they have come across as a distinct group with a distinct style. At the groups recent concert at the Jubilee they played most of the material on the album. The thing that impressed me most about that concert and the album is The Guess Who's unity. They are perhaps one of the tightest and cleanest groups in rock today.

I enjoy and appreciate almost every song on the LP but three particularly impress me. They are Talisman, 969, and When Friends Fall Out. One song I feel has no place on the album. 8:15 seems totally uninspired and has terrible lyrics.

THE DIARY OF A BAND - John Mayall London PS 570

This album was recorded in

England during a late 1967 tour by Mayall and his then Bluebreakers. It was then released in Europe as a double album but somehow never made it over here until this last month.

It begins with an improvisation entitled "Blood on the Night". A very tense and brutal song it is a musical protest against some troublemakers who beat up Mayall's bass player sometime before he had to go on stage. Next is some impromptu stage humor followed by Willy Dixon's "I Can't Quit You Baby". This ten minute version features a great saxophone solo by Dick Heckstall-Smith who is now with Colosseum.

Side two features interviews with Mayall himself, Keef Hartley, interwoven with music. This opening medley is a tribute to Mick Taylor, Mayall's incredible guitarist at that time. Next in eleven minutes of My Own Fault which tends to be sluggish and finally the only entertaining version of God Save The Queen that I have ever heard. This by far is not one of Mayall's best albums, but it has some very worthwhile things on it.



## HOCKEY AT NAIT

It is a well known fact that hockey is the fastest game in the world; and has been part of the extra-curricular activities offered to NAIT students for quite some time. Hockey can be very demanding, both physically and mentally, and offers the successful competitor much satisfaction for a job well done.

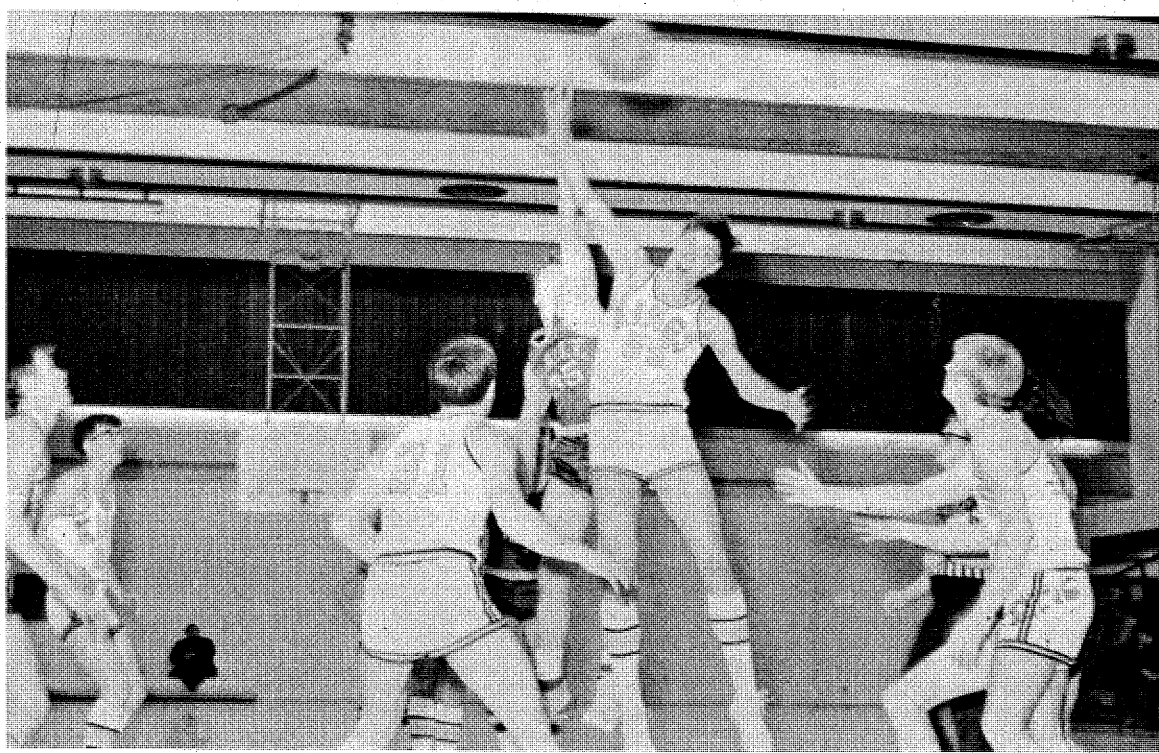
"The hockey program at NAIT is one of the most student oriented activities in the City of Edmonton". The administration, and the coaching staff make every effort to correlate all practices and games around the educational skelton at NAIT. Therefore all practices are later in the evenings during weekdays and almost (certainly all league games) are schedule for weekends.

Under the heading of facilities, NAIT is found in the middle of the road at the present time. Presently we do not have an arena, so we must get by, with the rental of other arenas. However, as far

as equipment is concerned, NAIT is second to none. Generally speaking all equipment is supplied except skates and this equipment is maintained as much as possible. By supplying equipment one is sure that a very small percentage, if any at all, accidents will be caused by faulty equipment.

Finally, from the competition view point, NAIT competes in the ACAC (Alberta Colleges Athletic Conference) and finds itself opposing: Red Deer Junior College, Southern Alberta Institute of Technology, Olds Agricultural and Vocational College, and Medicine Hat Junior College. The schedule is set up whereby each team meets the other four times (two at home; two away). It is hoped that in the near future, NAIT will be able to offer its students a hockey schedule with more teams involved, and a steadily growing skill level.

Mr. Garnett Cummings  
Coach: NAIT Oookpik Hockey Team



## WRESTLING TEAM

Amateur Wrestling has rapidly become the fastest growing sport in Canada and especially so in Alberta since Edmonton is this year hosting the World Amateur Wrestling Championships at the University of Alberta. This is truly a "feather in the cap" for wrestling people in Edmonton since this is the first time Canada has held a World Championship of any kind in any sport.

Much of the enthusiasm buzzing amid the high schools and University has rubbed off onto the College Athletic Conference in Alberta of which NAIT is a member. The coach of this year NAIT wrestling team Mr. Larry Speers is hoping for a winning team this year at the ACAC championships at Mount Royal in Calgary on March 13 and 14. Because of the

range of weight classes which are: 118, 126, 134, 142, 150, 158, 167, 177, 190 and Heavy weight, all different sizes, weights and shapes of individuals can be accommodated. One returnee from last year's team heavy weight Don Culbertson along with a squad of promising newcomers such as Jack Cassidy, Floyd Wagner, Ken Earl, David Boyd, and Brian Harcus in the light weights should field a fairly balanced team. Among the better wrestlers in the heavier weights are second year students Ken Beattie and Neil Hardie as well as first year Victor Michalchuls, Mark Cameron, Len Popovich and probably the brightest prospect is Louis Comin. Coach Speers has hopes that these gentlemen can bring home the team championship for NAIT

## BADMINTON TEAM

The Men's and Women's badminton teams compete at the Winter Sports Tournament in singles, doubles and mixed events. Last year, the NAIT team was tied for second with Mount Royal Junior College behind the Lethbridge Community College. Returning from last year's team

are Roland Kruzitza and Ken McCullough and together with such promising newcomers as Phil Murray, Jay Taylor, Zee Carrutyers and Irene Korolak, NAIT should have a good team to compete in this year's tournament to be held in Calgary on March 13, 14.

## MENS BASKETBALL TEAM

Wednesday, February 25, was the end of the 1969-70 basketball season for the NAIT Oookpiks. During the season, the Oookpiks totalled 29 ball games in all, travelling in excess of 3500 miles. As members of the Alberta College Athletic Conference (ACAC) the Oookpiks finished fourth in a seven team league, consisting of Mount Royal Junior College, Southern Alberta Institute of Technology, Medicine Hat Junior College, Red Deer College, Camrose Lutheran College, and Olds Agricultural and Vocational College. Incidentally Mount Royal were Canadian Junior champions last year and this year have beaten the University of Lethbridge who are members of the Western Canadian Intercollegiate Athletic Association (WICAA).

The Oookpiks finished the 12 games with a 5-7 won/lost record. They averaged 73.5 pts. per game on offense and permitted an average of 85.4 pts. on defense. This year's team had only 3 returnees. NAIT guard Bob Butlin set two ACAC records. He erased the old mark of 338 pts. in 16 games by firing 362 pts. in 12 games for a 3-pt. average. Bill Larson leads the NAIT rebounders with a total of 121.

NAIT also played in the Edmonton Senior A league. This league consists of 7 teams, Chieftains, Molstads, L.D.S., Vagabonds, Eskimos and U of A Bearcats. Most of the teams are studded with ex-University ball players. The Chieftains, who incidentally beat the U of A Bears this year have two members on their team from last year's Bears' championship team - Andy Skujins and Warren Champion. To this point the Oookpiks have won one game, but in the last five ball games have played great ball. Against the Chieftains, the Oookpiks trailed by 7 pts. at half time, eventually losing by 28 pts. Against the Vagabonds, a team who have lost only one game to this point and have such stars as Maury Van Vliet and John Hennessey, the Oookpiks dropped a close 71-65 verdict, after leading till the last three minutes. A win against Art Perkins' Eskimos will

put the Oookpiks in 5th place.

Oookpiks travelled 600 miles to the scenic cities of Trail and Nelson on November 28, 29, for two exhibition games. They lost both 71-70 to Trail and 83-70 to Nelson. The trip was enjoyed by all the players, and some valuable basketball experience was gained.

Saskatoon were visitors on January 30, 31 for two exhibition games. NAIT really poured it on in the first game as roasted to a 104-25 victory. Butlin fired 44 pts. The second game was much closer, but never in doubt as NAIT was pulling away 71-40.

During the season NAIT played two exhibition games with Edmonton teams losing to the Cagers 61-51 and to St. Marys 78-65.

The 1969-70 season produced some great basketball. Since there were only 3 returnees a lot of pressure was put on the rookies. The early part of the season saw many mental and physical mistakes made that may have cost games, but each time out, improvement was evident. The last 10 ball games really saw the Oookpiks blossom into a team; things started falling into place and every team knew they had been in a ball game after play-

ing the Oookpiks.

### THE NAIT OOKPIKS:

Coach: Julius Owchar  
Ass't Coach: Mel Lungle  
Manager - Trainer: Lindsay Lamphear  
Cpts. Bob Butlin & Greg Clark  
Bill Larson, Bill Wyrostok, Bruce Galenza, Joe Butkovich, Mike Brewka, Brian Schultz.

I would like to thank all those concerned with the basketball team. Mr. G. Meadus, and Mr. A. Hooks, Director and Assistant Director of Student Services respectively, Mr. H. Lee and Staff, Lindsay Lamphear the trainer and a special thanks to all the players who wore a NAIT uniform this year. But special thanks for the above 8 players who started the season and finished it with the Oookpiks. There were times we were being drubbed but never was there a quitter on the team. Everyone of the players gave 100% and what more can a coach ask for?

A great bunch of players and a fine group of men I am looking forward to next year. If you play basketball and are attending NAIT next year, make a point of dropping in at the Physical Education office during the month of September.

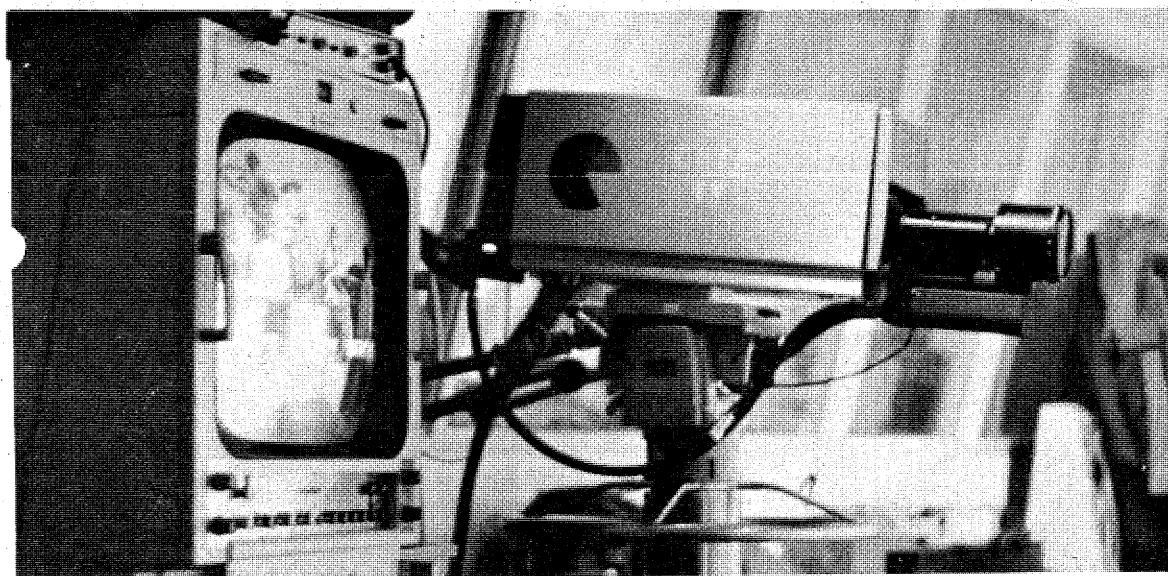
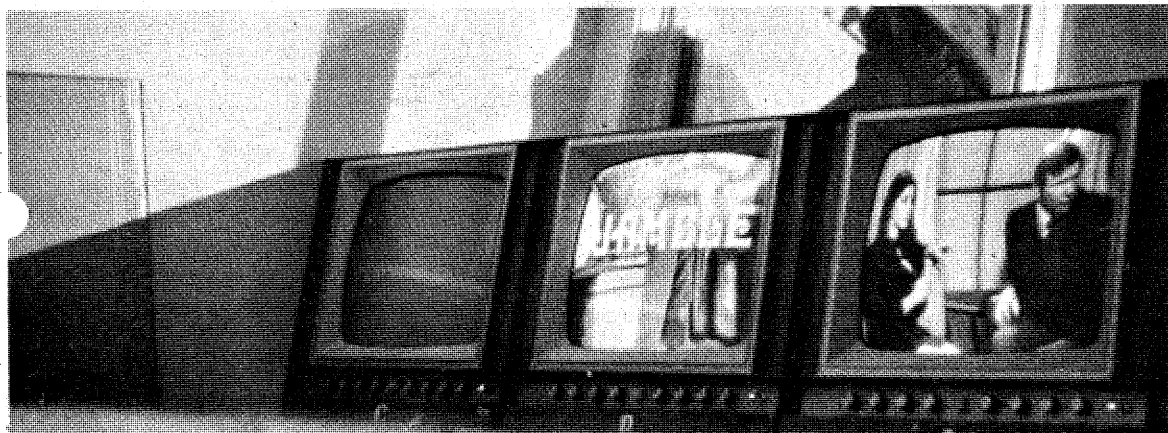
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# RADIO AND TELEVISION ARTS



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

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

Entrance requirements for Radio and Television Arts include grade twelve graduation, with a "B" or better in English 30, or English 33; or an equivalent. A good knowledge of the performing arts is also beneficial.

Second year Radio and Television Arts provides the student with techniques in television production. "Jamble", a half hour variety show is produced weekly on closed circuit television providing students to work in different capacities in producing a television show. Experience is gained in directing, switching, performing, camera operation, lighting, telecine, script assist-

ing, and many other aspects of television production. Second year students are also trained in the use of photography as applied to television documentaries and news stories. Working with 35mm still cameras, and 16mm movie cameras, the student shoots various film, and gains valuable experience in processing the film during laboratory classes.

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

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

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

To obtain more information about this exciting career, may we suggest that you come down and visit our studio and see live radio and television in action. Our studio is located in J-27 in the basement of the J-Wing.

## RESPIRATORY TECHNOLOGY

### (INHALATION THERAPY)

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

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

This new profession offers you an opportunity to share in its future. A comprehensive two-year training program for Respiratory Technicians is now available utilizing the facilities of the Northern Alberta Institute of Technology and some of the teaching hospitals of the province which possess an accredited school of Inhalation Therapy. The course consists of two phases: ten months of didactic lectures and laboratory session conducted at NAIT, followed by twelve months of clinical instruction in a hospital training school. During the two-year program such subjects as physics, chemistry, anatomy, and

physiology, equipment design, equipment function and maintenance, microbiology, pharmacology, pathology and nursing arts will be presented along with actual clinical practice during the second year.

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

The technician's duties will vary according to the individual hospital's particular situations. These responsibilities will include:

1. Technical Maintenance: As the equipment utilized in treating patients is extremely technical, he must know how to maintain, adjust and repair equipment to ensure its proper function and results. For this reason alone, some understand of physics is essential.
2. Therapeutics: Serving the patient according to specific instructions from the physician. To do this effectively he must understand (a) the physical and psychological needs of the patient, (b) the doctor's goal in using inhalation therapy, (c) how to accomplish this goal with his knowledge, technique and equipment.

D. Administration: The possibility of advancement to a senior position in the hospital department is excellent. The duties of

senior and supervisory staff include control of personnel treatments, patients of therapy, supplies, medical gases, and equipment, all of these require systems, records and correct management. These duties will require and produce administrative ability.

4. Teaching: The technician is responsible for instructing patients and members of the patient's family about the use of their therapy. The technician is also involved in the teaching of other personnel in the use of equipment.

5. Development and Research: Respiratory Therapy is still in the infant stage. The need for research, development and testing of new equipment and technique is very necessary.

In order to do well in this field, a person should have a genuine interest in people and their welfare. One must have the ability to work in harmony with members of the staff and other hospital personnel. Patient care in lifesaving situations is often encountered, and, therefore, of course requires a stable person to be able to cope with such problems. The students invariably find the profession extremely challenging and rewarding because the work is varied, new and interesting. This variety of work also means that the field is open to both men and women.

For years to come the demand will far exceed the supply. There is an urgent need for pioneers to establish new departments. With the profession so new and the de-

mand so great, numerous schools are being organized and the need for teachers in Inhalation Tech-py is pressing. Many centres throughout North America are planning cardio-pulmonary function laboratories and there is a need for post graduate studies in this and other work.

Those willing to work hard have an unexcelled opportunity for a challenging and rewarding future.

### CONGRATULATIONS TO THE STAFF AND STUDENTS OF NAIT

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

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**"THE GOOD  
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# NAIT FLYING CLUB

The NAIT Flying Club has both staff and student membership numbering well over eighty.

A few of the members own their own aircraft but the majority of those actively flying use the facilities of a number of local Flying Clubs. Although there are a number of pilots and learners in the club, it is not necessary to be an active flyer. The club has many social events and charter flights that interest the majority of our non-pilot members.

This year, in co-operation with the Edmonton Chamber of Commerce, the Alberta Aviation Council and Pacific Western Airlines, we flew to Everett, Wash-

ington to tour the Boeing 747 assembly plant.

A number of fly-ins have been organized in past years and there are several slated for this year.

In the past, week-end flights have taken members to Calgary and other points in Alberta. Some of the proposed fly-ins for the coming Spring and Summer include a fish-in in the North country, a fly-in to Jasper or Cold Lake and a week-end charter to Vancouver. The Club has also sponsored several charters to Europe as well.

The only requirement is an interest in flying and membership may be kept up after leaving the Institute.



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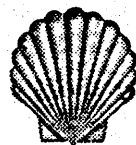


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# THE McNALLY LIBRARY

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

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

The information explosion is more acute in the science-technology field than in any other area of human knowledge. About

sixty million pages of technological literature are produced every year -- enough; it is said, to fill seven sets of the Encyclopedia Britannica each day and two miles of bookshelves each year. What is more, things change so fast that what is accepted as final and true today may be labelled obsolete or false tomorrow."

Our McNally library had gathered some of this information explosion in the form of about 30,000 books and pamphlets and 300 periodicals. These are in the form of Reference, Research and Relaxation, i.e., from the serious technical and factual form to the odd paper-back thrillers. Our highly trained technician must not only be well trained but also know how to keep informed about changes in his field.

The central location is ideal for it is close to other services such as administrative, general offices, book store, and cafeteria. In general layout, there is a functional design, for after looking at the catalog or asking for information, the searcher may go direct to the open stacks, make his or her personal selection, or just browse. Including the individual study carrels, which are scattered throughout and counted the lounge chairs, the seating capacity is about 260. We too have had a population explosion for when it was opened in 1963, there was about 1,500 monthly attenders, now there is an average of 15-20,000; with a circulation increase from

1,000 to over 4,000.

Signs are limited to only one regulation in the main reading room - No Smoking. Others are for guide lines and instruction. We feel that since it is the responsibility of the student to obtain the knowledge of his technology, it is up to him to act accordingly.

"Opportunities Unlimited" is blazoned across the sky for the Youth and the Venturesome of Today. When your opportunity has arrived here at NAIT, let your McNally library aid you to

its limit and help you with your future progress.

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## CHNR RADIO

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

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

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

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

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

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

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## PHOTOGRAPHY

Photography, as never before, has taken on a new responsibility to the people and economy of Canada. Once a medium of pleasure and beauty, photography is now helping to contribute important information towards the production of saleable and competitive goods.

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

Placing more emphasis on the practical aspect of photography, the course will equip a person to solve a photographic problem in or out of the studio or darkroom.

The first year of the two year course being offered emphasizes the importance of black and white photography. Densitometry and quality control, along with other general practices, ensure that the cleanliness and consistency in the darkroom. The course also includes print and negative retouching and all the techniques

of presentation.

Color processing and printing are incorporated in the second year studies, with the techniques of control and production in each clearly indicated by theoretical and practical instruction. Advanced black and white photography, both portrait and commercial, is continued with further instruction in the laboratory and on location. Basic motion picture procedures including editing and sound recording are also given.

With the increasing use of photography in police work, medicine and audio-visual employment opportunities are very good. The greatest area of initial employment is in darkroom technician work with studios, large firms and industrial plants. Opportunities are also good with the various wholesale and retailing outlets. The opportunities for advancement, like any competitive position, are only limited by the photographers' ability, experience and training.

## PLASTICS TECH.

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

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

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

they are used as materials in their own right.

The course offered here provides sufficient background for a student to enter any area of the Plastics Industry. Some of the aspects of manufacturing processes the chemistry of plastics, plastics properties, product design, analysis and plastics plant layout. Related topics are included to give full supporting coverage of associated areas.

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

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

## OFFICE MACHINE TECHNOLOGY

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

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

In machine shop there is a project to be made. This project will teach the student the proper use of hand tools, drill presses and threading tools. Remember there will be times when parts

are not available and you may have to make something to keep the machine working until replacement parts arrive.

Electric machines are becoming more and more popular each year, so we must learn something about electricity. This is covered in two parts. One section is the basic electricity theory and the other section is one electric motors. As the trend of machines is toward electronic controls there will be more and more basic electronics added to the course.

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

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

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

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

## STUDENT STORES

Student stores operating out of E126 is the store for the students, operated by the students. Some of the services we provide are: 1. selling books to you (on consignment). 2. ordering technology jackets, sweatshirts, crests, and other technology items. 3. supply all types of gym equipment. 4. ordering rings, tie tacks, and other jewelry as a souvenir of your years at NAIT. 5. battery boosts for \$1. These are a few of the many services we provide. Students stores is also a representative of the 10% Savers Club that you hear so much about around town. This card is available for \$9 and can be used to purchase merchandise for 10% cash discount in over 200 stores in Edmonton.

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

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"OPEN HOUSE"**

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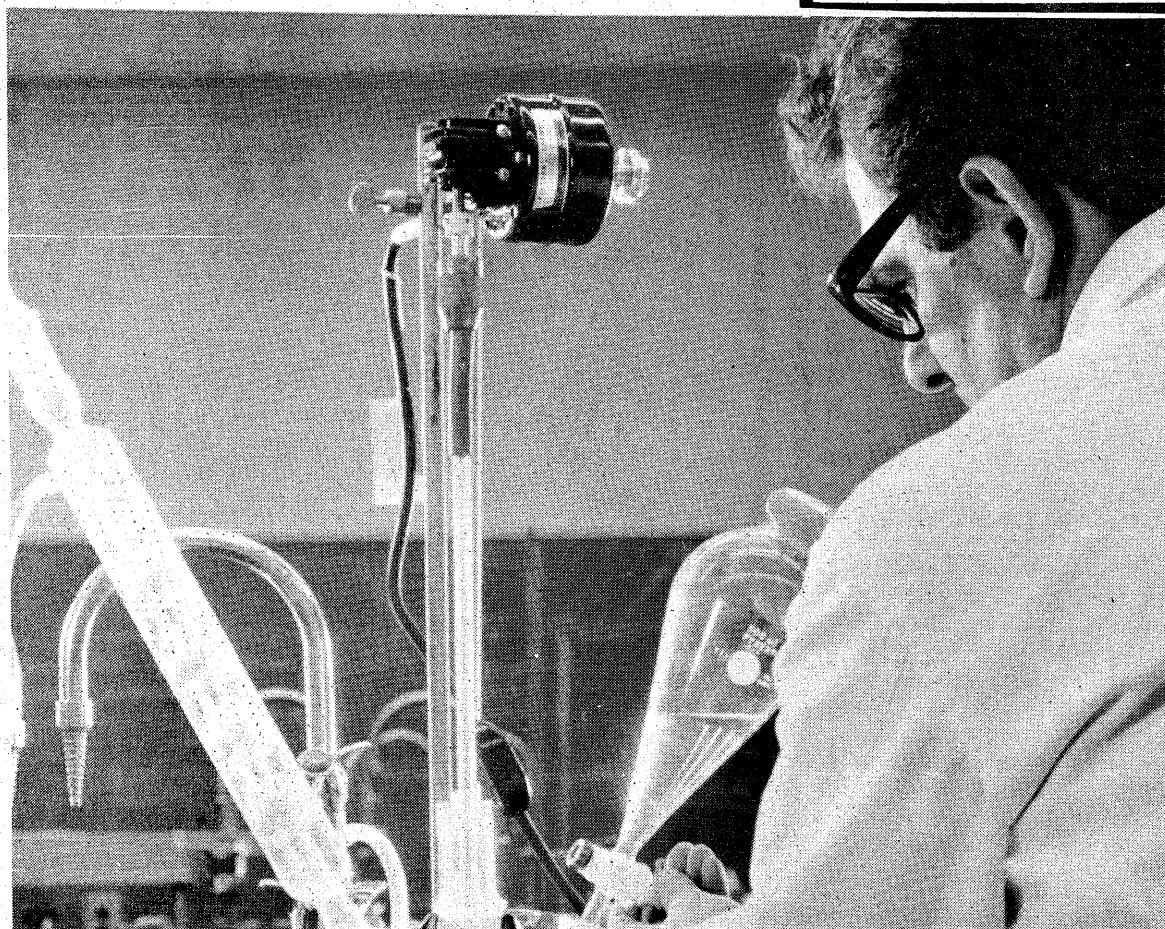
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# NAIT OOKPIKETTE BASKETBALL TEAM

The NAIT Ookpikettes finished the season with a third place standing and more than tripled the number of games won this year over last year. The team standings ended as follows:

	W	L	Pts.
Camrose	12	0	24
Red Deer College	9	3	18
NAIT	7	5	14
Mount Royal College	6	6	12
SAIT	4	8	8
Medicine Hat College	2	10	4
Olds Agricultural	1	11	2

The outcome of the games played in the ACAC league during the 1969-70 season are as follows: 7 wins - 5 losses.

Lynn Nicoll of NAIT placed third in the scoring race with a total of 133 points. Diane Kramm placed eighth with a total of 98 points, and Sally Ries accumulated a total of 69 points to be placed on ACAC list of scoring leaders.

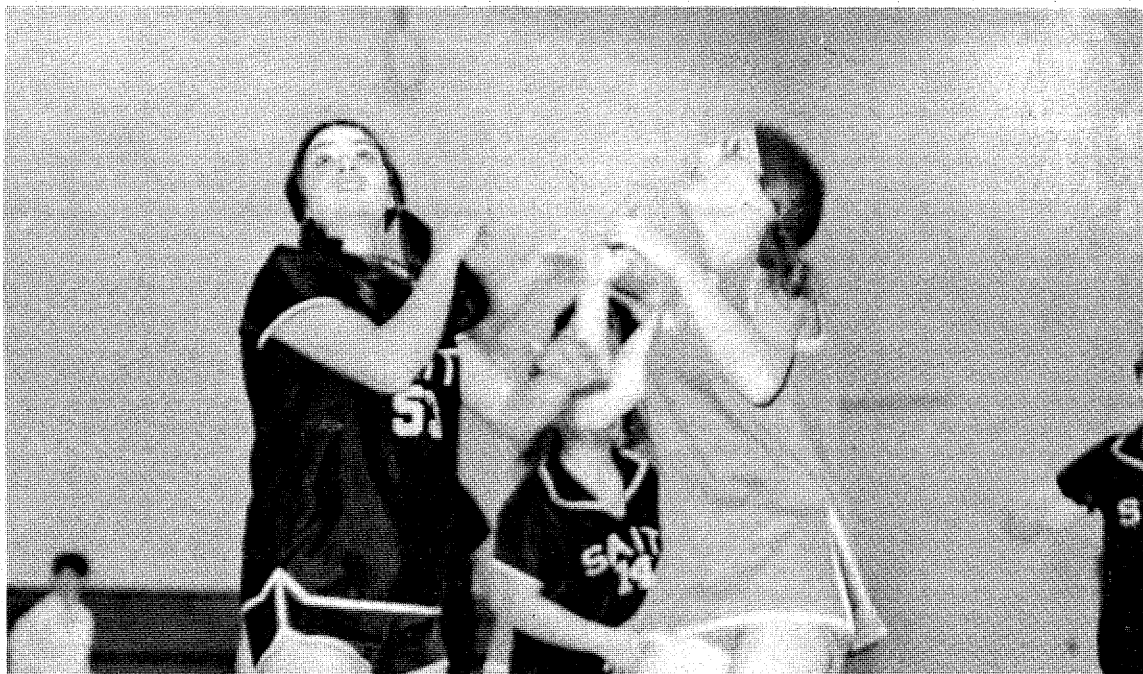
Sarah Duberry made 22% of her field goals good, which was the highest percentage within the team. Jacquie Wagner made 42% of her free throws, which was the highest percentage of free throws made within the team. The top rebounder for the NAIT team was Diane Kramm, with a total of 124 rebounds. Sally Ries, Jacquie Wagner and Sarah Du-

berry each came up with 51 rebounds during the ACAC basketball season.

The NAIT Ookpikettes were also entered in the Edmonton Ladies Basketball Association league. After finishing in third place in the "B" division of the league, NAIT came out on top to win the championship. The sudden death semi-final was against the Golden Gals of Garneau and the game ended in a 41-29 score in favor of NAIT. This enabled NAIT to go on to the best of three final games against the University of Alberta Nurses. The first game ended in a 41-30 score, with NAIT coming out on top. The second game was a little closer, with a score of 21-18 in favor of NAIT. With these two straight wins, the NAIT Ookpikettes ended the season as champions of the "B" Division in the Edmonton Ladies Basketball Association league.

Combining the points made in the Alberta College Athletic Conference and the Edmonton Ladies Basketball Association league, the following are the top scorers from the NAIT Women's Basketball team.

Lynn Nicoll	231 points
Diane Kramm	191 points
Sally Ries	126 points
Jacquie Wagner	100 points



NAIT OOKPIKETTE BASKETBALL TEAM

## OPEN HOUSE COMPETITION

The Intramural and Physical Education program will be featuring in the gymnasium various activities the students have had an opportunity to participate in during the past year.

Six technologies will be competing against one another in seven different competitions. The team that accumulates the most points will be awarded the Open House trophy.

The activities and times are listed below. Since there is a large spectator area available we hope you take the opportunity to come to the gymnasium and enjoy some of the fun.

### OPEN HOUSE INTRAMURALS

#### FRIDAY TIMES

11:00 - 3:00	BADMINTON
3:00 - 5:00	VOLLEYBALL
5:00 - 6:00	SUPPER BREAK
6:00 - 8:00	ARCHERY
8:00 - 10:00	BASKETBALL

#### SATURDAY

10:00 - 12:00	CONTINENTAL
	HANDBALL
12:00 - 1:00	LUNCH
1:00 - 2:00	C.F.R.N.
2:00 - 4:00	FLOOR HOCKEY
4:00 - 5:00	TUG-O-WAR

## GOLF SCORES

The 1969 Alberta College Athletic Conference golf tournament was played at the Red Deer Golf and Country Club on October 18.

NAIT team consisted of:

Bryan Groves  
Neil Connell  
Jim O'Brian

Finished in 3rd place with an aggregate score of 261. The overall results of the tournament in terms of aggregate scores were as follows:

1. Mount Royal Junior College	251
2. Red Deer Junior College	251
3. NAIT	261
4. Medicine Hat Jr. College	275
5. Camrose Lutheran College	283
6. SAIT	297

R.G. Meadus,  
Golf Coach.



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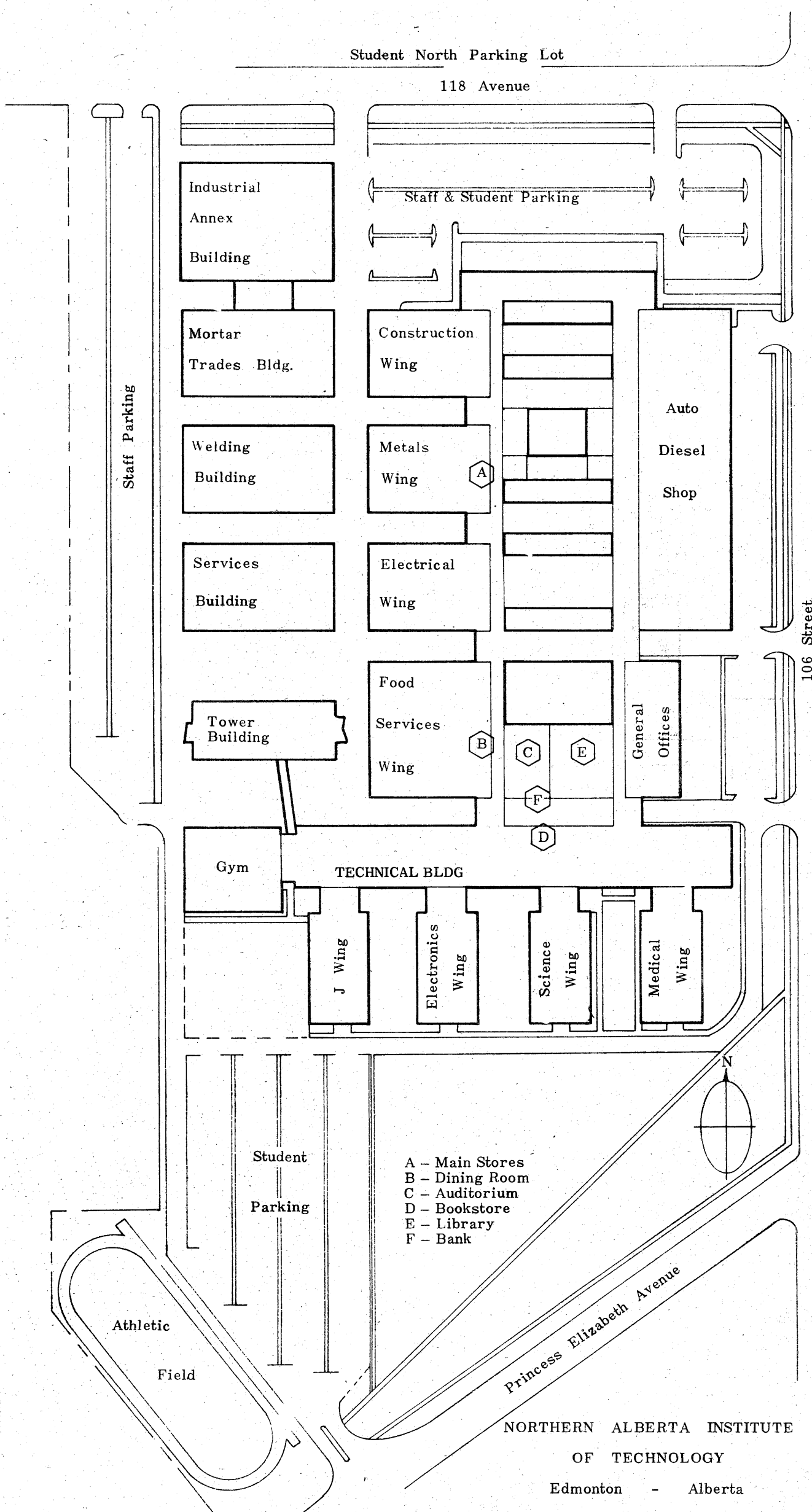
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ELECTRONICS  
PHOTOGRAPHY  
INSTRUMENTATION

## SCIENCE WING

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PLASTICS  
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ELECTRICAL  
TELECOMMUNICATIONS

## METALS WING

APPRENTICESHIP

## WELDING BUILDING

APPRENTICESHIP

## MORTAR TRADES BUILDING

APPRENTICESHIP

## CONSTRUCTION WING

CARPENTRY  
APPRENTICESHIP

## INDUSTRIAL ANNEX BUILDING

BUILDING CONSTRUCTION  
FORESTRY  
SIGN WRITING  
INDUSTRIAL PRODUCTION

## AUTO DIESEL SHOP

HEAVY DUTY  
APPRENTICESHIP