

LAKEHEAD UNIV. '72

FORESTRY



annual

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Lakehead University

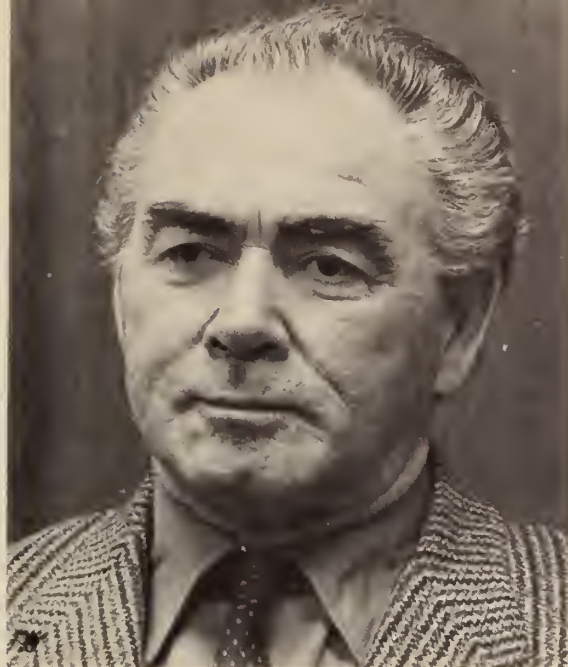
Forestry Annual 1972





On Thursday, November 25, President Tamblyn dedicated the arboretum, a collection of tree species, to the late Chairman of the School of Forestry, John Haggerty. The arboretum is located behind the Physical Plant.

Left to right: President Tamblyn, Mrs. J. Haggerty, Dean Kerr (hidden), LUFA President Bruce Ferguson, Dean Of University Schools H.S. Braun.



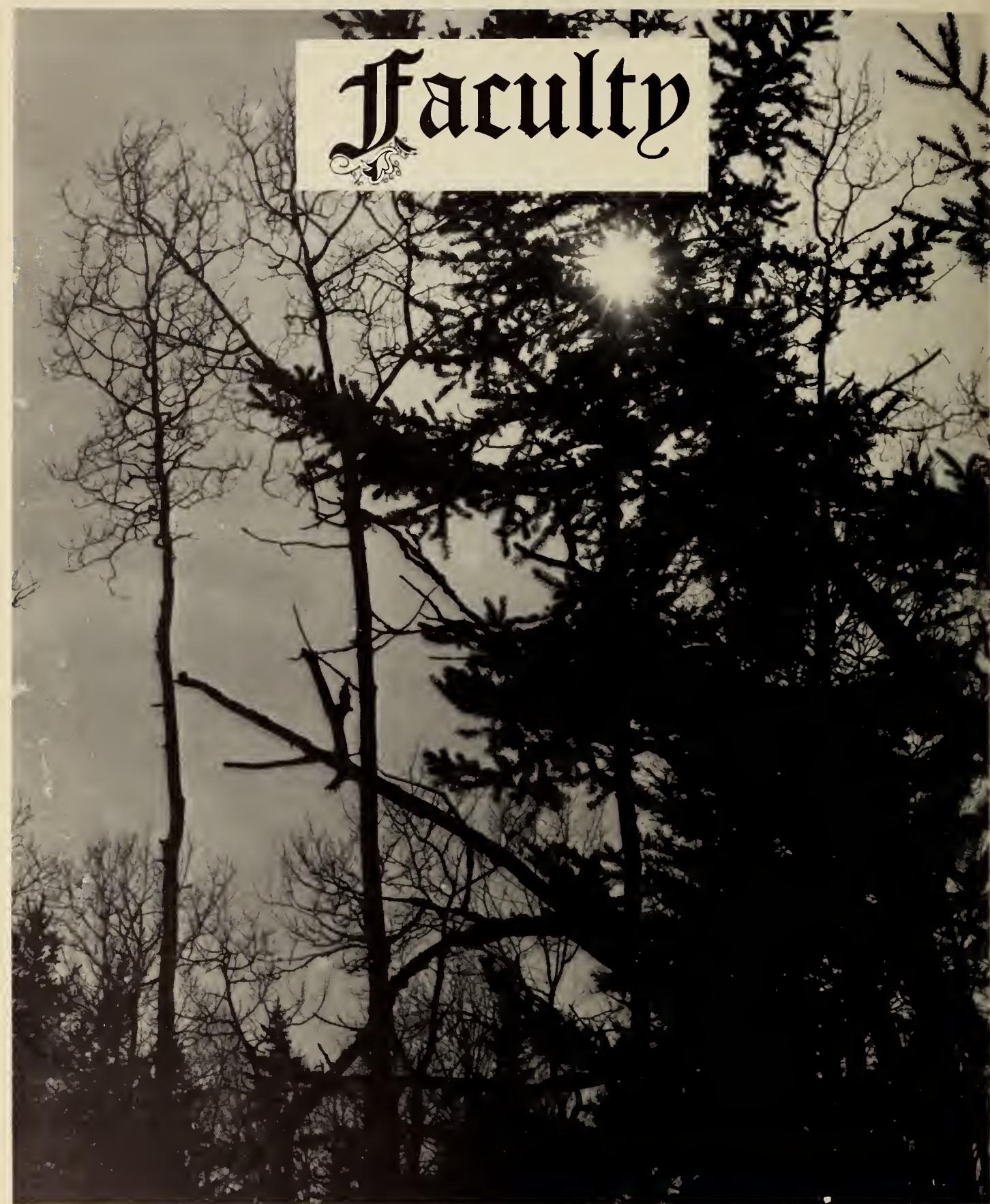
J.W. HAGGERTY

John William Haggerty was born in Algoma, Ontario. After his war service, he entered the School of Forestry at the University of New Brunswick from which he graduated with high honours in 1950. He was one of those men who discovered himself and his capabilities while on active service in a time of war. As a professional forestry engineer, he was a prominent member of the Ontario Professional Foresters Association and the Canadian Institute of Forestry. As a citizen, he took an active part in the work of the Port Arthur Rotary Club and the Lakehead Society of Fine Arts. He was also active in the Canadian Kennel Club.

John Haggerty came to the Lakehead in 1951. From that time up until his death he gave himself to the training of forestry technicians. He also worked persistently and steadily towards the establishment of a degree course in Forestry at the University.

This Arboretum is a fitting remembrance to his life and work. It is a memorial to his belief that our forest resources should be managed with due regard for their conservation and the well-being of the environment. This, and the students he trained, will bear a living witness to his ideals.

Faculty



Professional forestry education came of age in our University on April 25, 1971. It was announced in the legislative assembly, on that date, that the provincial cabinet had approved the University's request that it be authorized to grant the degree of Bachelor of the Science of Forestry.

The academic year 1971-72 proved to be one of considerable stress for all members of the faculty in the University, and particularly for our developing School. The recruitment of five, full-time teaching staff members to meet the needs created by the offering for the first time of the third year of the Degree program, and to fill the openings which resulted from the resignation of Professor Khalil during the early summer, and from the untimely death of our Chairman, John Haggerty, in August, was a task of particular urgency.

During the first term and continuing into the second term, several members of the staff were obliged to commit a significant portion of their time to the work of a number of University committees. These committees were in part, preoccupied with the financial crisis which became apparent to us, in October, with the study of University governmental organizations, and with the continuing tasks of guiding the academic activities of the University through committees of the Senate. Within the School, we undertook a thorough review of both the Degree and Technology programs. This proved to be a lengthy and most challenging task, but one which has led to a significant strengthening of these programs. They are intended to enhance opportunities of professional foresters and forest technologists in the Boreal Forest region of Canada, by providing a general forestry education upon which our graduates may develop knowledge and skills in their chosen fields.

Commencing in September, 1972, we shall offer, for the first time, the fourth and final year of the Degree program. To that end, we have been authorized to proceed with the recruitment of two additional, full-time teaching staff members and of one laboratory assistant. This will only partially alleviate the decidedly heavy teaching loads which will be carried by the staff during the 1972-73 transition year of the Degree program. Course loads will be somewhat heavier than normal for students in some years of the program, also, but special efforts will be made to restrict these to tolerable levels.

The financial controls which are being imposed upon universities by our provincial government are necessitating a careful scrutiny of all programs. It is now apparent that only under special circumstances will they be offered if they do not attract adequate numbers of students.

Our Timber Harvesting Technology certificate program, unfortunately, has been in this category, and will not be offered in September for less than 10 students.

In spite of the current strength of popular concern with the environment, pollution, and the management of our natural resources, opportunities for permanent employment in these fields have not developed satisfactorily. In forestry, provincial government complements for foresters have been fixed since 1962, and prospects for a change in this situation are not at all encouraging. Similarly, in the field of fish and wildlife management, no increases in the complement of Conservation Officers have been authorized for some time, although only 110 officers are available currently for field duties across the province.

An adverse trend in professional and technical employment in the forest industries for professional and technical forestry people has been influenced by economic conditions during the past year or more. It does not appear that this trend will be changed in 1972.

Against these negative trends in employment in forest resources management must be considered the interesting anomaly of the significant, increases in public expenditures on Silviculture which were noted some six years ago. Observation of the regeneration program, which absorbs most of this outlay, suggests that it has been, in large measure, simply a quantitative, mechanized assault on the more obvious, accessible problem areas. The question of the quality of the work done thus far is disturbing many people in the profession, reflecting, as it does, the problems of adequate, detailed planning and supervision of the projects.



K.W. HEARDEN

These problems, and those related to the employment of foresters and forest technologists, are inherent in the lack of any clearly defined statement of provincial forest policy.

In considering the issue of forest policy in Ontario, in the light of actual experience across the past few years, one is inclined to speculate that the policy is in reality one of expedience, perhaps best expressed as, "you liquidate, we regenerate, where possible, and to the extent that funds may be provided." Indeed, in the past several years, there has occurred a shrinkage in financial support for silviculture, and this has imposed stresses and difficulties at all levels.

Is it not time in Ontario, 104 years after Confederation, and after more than 60 years of the presence and influence of professional forestry in the province, that there should be on the public record a clear, comprehensive, unequivocal statement of forest policy? The existence of such a statement would be a stronger basis of support for the needs of an effective sustained yield forest management program, surely, than the present policy, if it exists, which seems to be heavily shrouded in ambiguity and highly susceptible to the vagaries of political climates.

Under a properly defined and publicly supported policy of sustained yield management of our forest resources, forestry could be assured of stronger and more consistent support in public spending priorities and programs in Ontario.

The need for all of us in forestry is to maintain a continuing pressure upon our government and elected representatives for the recognition of sustained yield forestry as a vital necessity for the long term well-being of our country.



A. BARTHOLOMEW



K. W. HEARDEN



D. ERWIN



L. VIKLAK



R. J. DAY



S. ZINGEL



WESTBROEK

D. RICHARDSON (absent)



HAZENBERG



BLAIR



B. KINNEAR



B. MOORE (TECHNICIAN)



L. CHANDLER (TECHNICIAN)



PAT CREED (SECRETARY)



D. WOTTON (TECHNICIAN)

CLASS PICTURES



TECHNOLOGY I



1st Row - Jim Hastie, Jeff Greer, Ted Baklinski, Chris Clark, Glenn Brown,
Scott Jarvis

2nd Row - Eric Wang, Ray Piekey, Derek Medland, Pat Boyce, Kieth Irvine

3rd Row - Noel Smith, Ron Sherwin, Frank Beck, Don Bourffard, John Douglas,
Dave Anderson, Wolfgang Kilzer

Absent - S. Armstrong, R. Billings, B. Brodie, R. Christiani, D. Colvin,
J. Myers, Rod Nash, Tom Nash, Robert Thompson, Tim Shenton,
Sandy Vandahl, G. Perry

TECHNOLOGY II



First Row

Bob Schultz, Garth Shaver, Morris "Snowflake" Walrond,
Bob Dakin, Don Laybourne, Al Harris, Gary Hughes

Second Row

Sean Cook, Gary Saurer, Rick Billings,
Mike Horbow, Mike Horan, Gary Maxwell

Third Row

Geoff Hall, Lindsay Harris, Sam "Nanook" Muir,

Fourth Row

Bob Cox, John Buitenhuis, Bob Kiff, John Marchington,
Don Hopkins, Eric "Warsaw" Czupryna

Absent

J. Aitken, Scotty Baxter, Ron Burnside, Dan Chambers,
Alan Kamp, Dan Ross, Jim Miners, N. L. Clark, L. Harris

ENVIRONMENTAL TECHNOLOGY



E. Cross, Bob Sinclair, Bob Thompson, Bob Bailey, Carson Herrick,
Dave Parsons, Ed East, Wayne MacMillan, Pete Copis, Peter Clemens,
Jim Umpherson, Allan Ballack, Roger Brown, Don Graydon, Malcolm Mitchell,
Doug Kanuka

Degree I



First Row

B. Mueller, Ken McWatters, Ron Kirkbridge, Phil Keenan,
Mike Desjardins, Andrew Allan

Second Row

Dave Lawrence, Steve Ball, John Nejjussant, Mark Butler,
Bob Baxter, John Boudreau, Derek Dool, Garry Parker,
W. Thibault

Third Row

James Harrison, Don Laponen, Ken Yaraskavitch, Al Raman,
Roy Roblin, John Stacey, Paul Poschman, Jack Phillips,
George Webb, Jim Dew

Fourth Row

Don Macalpine, Dennis Batrum, M. Welby, Nick Santarelli,
Bruce Barry, John Thomas, F. Kennedy, Bill Vanborrendam

Absent

David Bray, Nello Cataldo, George Broome, Kim Osmars,
D. Van Lith, J. Quigley, D. Neuert, K. Dekker, L. Lemay,
G. Lytle

FORESTRY DEGREE II



First Row

Gary Bloomfield, Ted Aho, Helen Nowak, Bill Baker,
Glen MacGillivray, Paul Jewiss, Gunther Herbert

Second Row

Stan Kaczanowski, Wayne McLeod, Don Roy, Graeme Olson,
John Deachman, Norm Goba, Don Snider

Third Row

Don Teskey, Gerald Cook, Bruce Campbell, Bruce Nichols,
Bruce Ferguson, Greg Cowman, John Godden

Fourth Row

William Campsall, Tom Stott, Rick McIlquham, Pat Thompson,
Dave Chapeskie, Ron Sedor, Trevor Woods, John Holly

Fifth Row

Mike Roy, Roy Maki, Chris Marsh, John K. Riley,
Bob McLeod, Jim Agombar, Ilmar Kondor

Absent

Roland Hack, Al Ballak, Bruce Lagzdin, C. Y. Chong,
Fred Austin, B. Nau, John Thomson

FORESTRY DEGREE III



Back L to R

Malcolm McIntyre, Rick Player, Greg Crook, Walter Palubski, Front Row
Gary McKellar, Don Wilson, Bill Murphy, Mike Folkema

2nd Row

George Zebruck, Ned Martin, Gord LeMaistre, Bob "Goose" Absent
Stoddart, Bob Pick, Geoff Pattison, Roger Cambell, George Ball

Doug Penna, Ray Rivard, Roy Potvin, Joanne "Flora" Stupendick,
Dave Reid, Doug Hunt, Ken Russell

Bob Mitchell, Don Bayne, Fred Jansens, John Cary, Terry Thompson

ONTARIO-O....P.F.A.

*Take a forest stand
And let the timber grow
And manage this land, Ontario
Let foresters work for you and me
With hopes as high as the tallest tree
Give them the right to plan
For this land of snow
So they can build Ontario*

MULTIPLE USE

*Whose forests are these anyway
For work, for study or play?
Are they leased to the Yanks
For pulpwood and planks?
Do Canadians have any say?*

*That was a No-No one
Sing us another one
Not like the other one
Sing us another one do-o*

*When our timber resources are cut
Or prices are squeezed in a glut
We think of excuses
For multiple uses
To pull Canada out of a rut*

CHORUS:
*Hey-Ho for multiple use
Give us another use
Just like the other use
Give us another use do-o.*

*Cottage lot sales divide up the shore
Into 50 foot plots by the score
Now you need a sewer
To keep the lake pure
Or you'll poison the owner next door*

CHORUS:
*On a portage crossing a truck route
A canoeist stopped to play on his flute
With a God awful thud
He was crushed in the mud
And only the truck gave a toot*

CHORUS:
*Tourists called the Ranger a liar
After lighting an illegal fire
Which caused forest arson
Burned up the parson
And roasted the Sunday school choir*

CHORUS:
*A fabulous axeman called Paul
Highgraded the trees that were tall
When asked for an excuse
He said multiple use
Prevented him cutting them all.*

CHORUS:
*An ecologist studied a thrush
And was killed when Bob Day sprayed the brush
It had been his plan
To enact a spray ban
So the thrush and the brush could be lush.*

CHORUS:
*An R.P.F. had to quit
Signing multi-use plans that don't fit
But to cut be selection
And build an erection
In a wilderness zone takes a wit*

*Lakehead U's class of F.'73
Were songfesting beneath a dead tree
When from the inside
A Woodpecker cried
R.P.F.'s aie no damn good to me.*

*Hey-Ho for multiple use
Don't do another one
Just like the other one
Don't do another one
Don't.*

Professor Dav's songs



L to R Greg Cowman (Vice-Pres.), Helen Nowak (Sec.), Bruce Ferguson (Pres.)
 Absent Roger Brown (P.R.), Paul Jewiss (Treas.)

THE PRESIDENT'S REPORT

It is upon the close of this academic year that I became reminiscent of my term as L. U. F. A. President. Though apathy seemed to take an early foothold in the year, the unfounded accusation that Forestry students as a whole had assumed an artsy attitude was quickly relinquished. A remarkably successful orientation rite at Kangaroo Court and an October Beef Bash was all that was needed.

Participatory wise, the Shinerama proved immensely that Forestry still lived up to its tradition of always coming out on top. The bottle drive for United Appeal, even under the adverse conditions, surprisingly showed earnest drive.

The subsequent Social Nite and November Dance were also undoubtedly enjoyed. The true wealth of belonging to the Forestry sect continued into a Winter Carnival that would have fizzed without restoration of carnival spirit (i. e. - the Tech I sculpture) by us.

Other involvements of the year such as the Annual Symposium, the work for a Germany field trip, and guest speakers added much to such a short but eventful year.

To those who devoted services and time, I forward the executive's thanks for making the 1971/72 year a year of no monetary loss coupled with a renewed spirit only Forestry students could invoke.

I would like to make a personal thank you to Dave Reed for his writing of the "Wood Chips and Sawdust" column.

Myself as well as Greg hope future years prove as much, if not more, rewarding as it has been to us this year.

Bruce Ferguson,
 President, 1971/72.



Wood Chips and Sawdust

d. reid
For. Deg. III

Well, if Forestry still has fans, we must have faithful followers. Big Green quickly became big mud last week when we got wiped in the volleyball play-offs. What the problem was, even I don't know, but we played very poorly and lost 4 out of 5 games to the opposition. I guess a combination of bad luck and disorganization could have been the main faults of our play on D-day. (D for defeat).

Still good news on the football field though. The Forestry 1 team won over Science who of all things defaulted their play-off game on Saturday. The Forestry 3 team stayed alive by defeating the Phys Ed team they played in the quarter finals.

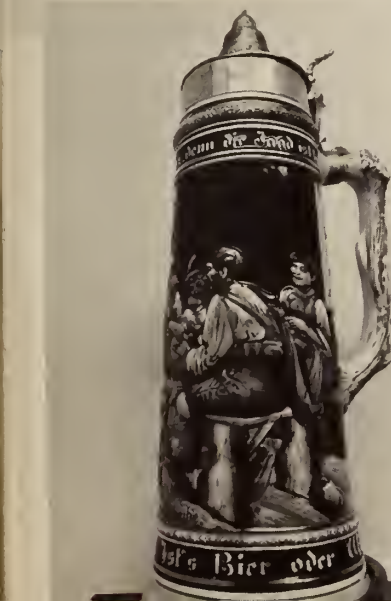
s FORESTERS, all years, especially first and second year: Your student organization is in trouble, i.e., LUFA needs your support and help in its activities. For instance, the Beer Bottle Drive was a complete disaster this year as far as money return, and more important, student turnout. After such a good response to Shinerama, I am very disappointed at the failure of the United Appeal Bottle drive. Things like this can make or break the spirit of a faculty, and the third year people who more or less made the Bottle Drive exist as you might say, can't possibly carry the entire Forestry faculty on its back. We have as much a work load as any other class, and if we can find time to spend a few hours of time in a week to help out LUFA, so can you. In immortal words, ask not what LUFA can do for you, but what you can do for LUFA. Think about it, drop down to the LUFA office and offer help.

Forestry had a wee social called Forestry and Friends on Thursday, November 11. It was good to see the first year students get out and join in with the rest of the old dead wood that's been hanging around for a couple of years or more. These socials (there will be another in late winter) are a good way to meet your Professors and get to know them as friends who can help you rather than be your enemies out to get you. It was a very good gathering and we were glad to see that most of the Professors managed to attend.

For those who never heard, this year's Bottle Drive collected \$253.00 for United Appeal which is a pretty fair total for the number of supporters we had.

This week Forestry is throwing the big dance Friday night, with music by JERUSALEM, beginning at 9 bells and flying on 'til 1. Doors open about 8:45. ((- BAR -))

Who does all the cheering at Nor'Wester hockey and basketball games? JOE SCHWARTZ of course. JOE would like to say congrats to the big white and blue b ball team for a successful series against the Trojans and to the team on blades. Once they really get to work as a unit, they're gonna do alright.



Wood Chips and Sawdust

d. reid
For. Deg. III

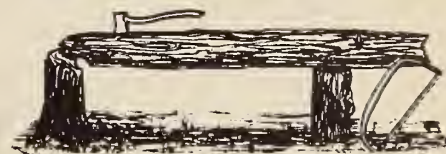
Well fans, Forestry has upset the favoured Phys. Ed. team in Football 7-0 by scoring a single point and an unconverted touchdown by Bob "Goose" Stoddart late in the game Saturday the 23rd. Phys. Ed. did have a good offensive attack but with some tough breaks, a few bad snaps and Forestry's ability to capitalize on these mistakes, Forestry wound up on the long end of the score. Forestry, you might say, is "numero uno". This Forestry 1 football team has accumulated over 60 points in 4 games and allowed only one point to be scored against them. This makes up for a little revenge for the case of beer we lost in the volleyball game on Thursday night which we lost by a point. The game played Saturday was a very clean well-played contest with some tough action along the line.

Saturday night celebrations took place out in the University forest at the annual Beef Bash. Mother nature cooperated with a beautifully clear, star-studded sky for the early part of the evening and while the flames of fire flickered, danced and licked away the dampness of the cool evening air, songs were sung and jokes were told. Incidentally, while yours truly was up telling a couple my wife drank most of our wine, Bruce Ferguson hopes everyone had a good fill of beef and an enjoyable time. I bet you're sorry now that you missed it.

JOE SCHWARTZ WAS THERE!

In regard to the Mooseport 200 which became the Mooseport 100, due to the lack of conditioning of the teams, Forestry hereby apologizes for dropping out after approximately 25 laps due to an urgent last minute meeting which was called at the Italian Centennial Hall. Before we left, however, we noticed some distinct advantages that some teams held over others. In particular, one team managed to have a three speed bike which was stuck in third gear classified as a standard one speed bike.

P.S. Bruce and Greg would like to thank all those who assisted at the Beef Bash.



Wood Chips and Sawdust

d. reid
For. Deg. III

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INITIATION

Forestry Social



... a smashing success



This year's Woodsmen's Team

Wolfgang Kitzer
Rob McLeod
Jacques Trembley
Steve Ball
Bill Baker
Al Raman

WOODSMEN'S COMPETITION

The annual Woodsmen's Competition was held in the first Saturday of Carnival Week. All contestants were in fine form from the Forestry "Pisser" the night before. It is safe to say the event was a success with five teams competing and ample spectators. Competing were Degree II who came first, Geology who came in second, our woodsmen's team who showed up third, and of course, the Jock Straps and nurses who came in 4th and 5th respectively.

Even though the nurses came last, they were the best cheered and most watched team competing. Good form was shown by all.

Credit is due to the organizers, Danny Gilbert and Derek Medland, and all those who helped in many different capacities.

Due to lack of funds, the trip to Montreal for competition was cancelled. Hopefully, next year, the budget will not be so tight.

Next year, we hope to get off to an earlier start and get things swinging. Allan Raman will be in charge of the team in 1972/73, and it is hoped many will turn out for it as there will be more activities, and we also hope to add to our existing supply of equipment.

Until next year, remember to keep cutting deep.

Bill Baker.

GERMANY COMMITTEE



L to R Ray Rivard, Walter Palubiski, Fred Austin

GERMANY FIELD TRIP

This was, by no stretch of the imagination, a success story. A group of eight students and two professors attempted to set up a field trip for the third year degree and the second year technician students to commence on May 1st, 1972 and end on May 17th. In all, 46 people would have enjoyed an experience that few others in their field have had the chance to. The trip was to consist of viewing Management logging and research areas in European settings.

The major drawback was raising funds. The federal government turned us down saying it was too specialized a trip, and the provincial government was willing to give us only a third of what we asked for.

I would like to close with a word of encouragement. If anyone is planning another field trip of this scope, they should start planning it at least nine months in advance. The money is available, but you must start at the top and work down. Meet the minister in charge and plead your case clearly and emphatically.

Ray Rivard.



Back L to R Bill Murphy, Bob Fedorchuk, Jim Myers, Alan Raman
Front L to R Walter Palubiski, Gary McKellar (Chairman), Bob Baxter

SYMPOSIUM REPORT *****

Due to the fact that our numbers in the School of Forestry have tripled since the First Annual Symposium was held in March of 1969, it is felt that a brief history of the past proceedings will be informative and show the necessity of continuing such a well received event.

"Aspects of Forestry Associated with Multiple Land Use Concepts" was the central topic in the First Symposium. Four speakers, all from Northwestern Ontario, presented their papers. The Symposium received national recognition in forestry circles in the form of a three-page feature article in the June, 1969 Forestry Chronicle. One of the speakers, Mr. K. W. Hearnden, joined our staff in the fall of 1969 and is now the Forestry School Chairman.

The Second Annual Symposium was entitled "Forest Policy in Ontario". Three aspects were discussed, Timber Licencing System, Sustained Yield Policy and Regeneration Policy. Three of the speakers were from Toronto. Mr. Leo Vidlak, a faculty member, was a speaker under the Regeneration Policy and later became engaged in some lively discussion. Dr. W. G. Tamblin, President of the University, spoke on "Student Unrest" as the after-dinner speaker.

The "Impact of Chemicals in Forestry" was the theme for the Third Annual Symposium. A very knowledgeable group of men formed the panel of speakers. They came from Eastern Canada and the United States. Mr. R. J. Day, best remembered for his flamboyant method of spraying deodorants later joined the School as an Associate Professor in Silvico and Forest Ecology. Again we received national recognition in the June, 1971 issue of the Forestry Chronicle.

The Symposium this year discussed "Production Potential and Management of Under Utilized Species". This evolved through time into primarily a discussion on Poplar. A detailed description of the proceedings can be seen on the following pages. Many thanks for the excellent press coverage by Messrs. Dave Reid and Greg Crook to whom I am indebted for their photographic coverage and literary prowess. Also many thanks to the sales representatives who pushed the tickets to the students, especially to the first year Degree class for their relatively "good" showing.

Financially speaking, the Symposium lost money for the fourth straight year. Hopefully, this year's loss has been kept below the \$600 level.

Attendance has risen from 130 in 1969 to over 200 this year. The Symposium is gaining recognition in Northern Ontario forestry circles as government and industry employees come from as far as

Cochrane and Blind River to the east, and Kenora and Red Lake to the west. Interest has grown in leaps and bounds. All chairmen of the Symposium have received many favourable comments from those attending and especially the speakers who are amazed at the fact that the students run and finance these large symposiums. Lakehead Forestry is a new school without an established reputation. In the minds of those who control the hiring of new graduates, student participation is important. Participation in the symposium is an excellent way to show this interest. In organizing the symposium, just one person puts out a lot of his personal time as has been the case for the last two years. We need greater student participation beginning in SEPTEMBER.

by Gary McKellar,
Symposium Committee Chairman.

Forestry Symposium

Production Potential and Management of Under Utilized Species

The Lakehead University Forestry Association held its fourth annual symposium on Saturday March 4th. This year's topic "Production Potential and Management of Under Utilized Species", turned out to be more or less a symposium on poplar, proving to be very interesting and informative to say the least.

The first speaker was Mr. J. McLaughlin from Morbark Industries. Mr. McLaughlin discussed the "Total Chip Concept" of harvesting hardwoods, which chips the entire tree using a portable debarker-chipper.

With the aid of a movie, Mr. McLaughlin showed the operation of the Morbark "Super Beaver" experimental hardwood plots in May of 1970 in Minnesota using the total chip concept. The cost analysis from the experiment showed an initial equipment cost of \$473,650 including the Super Beaver, a Drott feller-buncher, two grapple skidders, portable sorting screen and maintenance over a five year period. In the same period realizing 300 tons per day production (400 tons maximum) the cost per ton of chips would be \$4.79 delivered to the mill stressing the idea that greater

utilization can lower the cost of harvesting.

Mr. Art Ennis of Boise Cascade proved to be a good follow-up to Mr. McLaughlin. Mr. Ennis talked about a tree length chip operation used by Boise Cascade, International Falls, Minn. He stressed the fact that their particular operation was under very specific conditions. Three separate contracts have been let out for different aspects of the production. One contractor is responsible for cutting and limbing the trees and delivering them to the chipping site in time for the wood to cure before it is chipped. This contract made up one-third of the total cost of the chips. The second contractor is responsible for the running of the 2250 Morbark Chipper and Debarker purchased by Boise Cascade in 1968, and loading the chips into vans. Mr. Ennis stated that the 2250 was 93% operational compared to down time, but that the maintenance crew worked after hours to keep the machine in top running order. Production was 18,000 cords per year per shift. (This portion incurred 16% of the cost.) The third contract was for hauling the chips from the site to the

mill using eight, forty foot company owned vans with an extra one at the chipper, and four leased tractor units. The average haul was 80 miles with a load of 10-12 cords depending on moisture content. Loading time is approximately one hour. Twenty-seven percent of the total chip cost occurs here.

Mr. Ennis suggested that separate contracts and a piecework pay system got everyone working as a team and the result was economically better than other sources of chips. Mr. Ennis concluded his talk by stating that presently 61% of the wood required in Minnesota is filled by chips and that this could rise to 83% in the future and that Boise Cascade would probably purchase another chipping machine.

Dr. F. Bender, formerly of the Federal Research Lab in Ottawa was the next speaker. Dr. Bender was involved in a programme to study the use of wood sawdust and chips as a food stuff for cattle and other animals with four-part stomachs. He stated that sawdust has been used as a bulk food from time immemorial but its low digestibility in untreated form prevented its use as a continuous diet. Dr. Bender found through his experiments that poplar had the best untreated digestibility (15%) of the woods he tested. He stated that 40% digestibility was required to sustain stock and that 45% enabled daily weight gain. By subjecting the sawdust or chips of poplar to 10-15 atmosphere pressure of steam, acetic acid is produced and bonds between cellulose and lignin place the digestibility of poplar between 48 and 52 per cent. Then to produce a nitrogenous compound equalling protein, a small amount of am-

monia is passed over the chips and the ammonia reacts with the acetic acid to form the desired compound. Dr. Bender suggested we refer to his papers of April and Sept. 1970 to find out the results of his experiments in greater detail.

The next speaker Mr. A. Sudbury spoke on potential domestic and international markets for Canadian wood based panels. He stated that Canada was presently in production capacity of wood based panels. Mr. Sudbury noted that a 20\$ preventative tariff on Canadian plywood exports allows the U.S.A. to import 87% of its hardwood plywood from Asia at cheaper cost. The U.S.A. industrial plywood market now being filled by Finland and Japan could be partly filled by Canadian products through better marketing techniques which stress the quality and competitive prices of Canadian goods.

Mr. Sudbury suggested we could obtain a greater part of the European market for panels by demonstrating the variability and versatility of such products to potential buyers. He completed his talk by stating Canada's 1971 export of wood based panels totalled \$34,000,000 and the chance of new markets looks good.

The last speaker was Dr. Z. Zuffa from the Lands & Forests Research centre at Maple, Ontario. Dr. Zuffa has done much research into the genetic improvement of poplars especially in hybrid production. He stated that an increase in the poplar cut was eminent as the softwood cut approaches the allowable. He pointed out the advantages of poplar as, a short rotation species, ability to grow on a variety of sites and reaction to improved conditions, and its use as timber and other products, and the ease of genetic improvement.

Mr. Zuffa displayed charts showing improved hybrid poplars obtaining three times the diameter, three to five times the

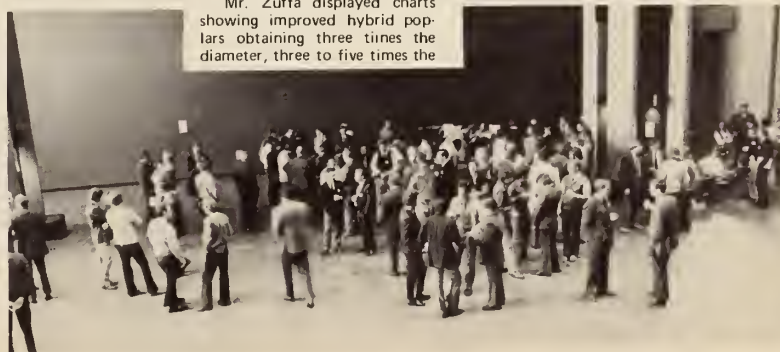
height and two to four times the mean annual increment over natural poplar stands on similar sites. The hybrid *P. grandidentata* x *P. alba* at Maple grows more than 1" in DBH per year and at 12 years is 14" in diameter. Zuffa talked about 20-25 year rotations for veneer with 16-18" DBH and 80' tall trees, and 5-10 year rotations for pulp wood.

Mr. Zuffa gave a most informative and interesting talk with only three days notice after one of the speakers cancelled in the week of the Symposium. He also displayed slides and disks of some of his experiment.

Following a general question period, the over 200 attending the day's proceedings adjourned to the main cafeteria for a bar and dinner.

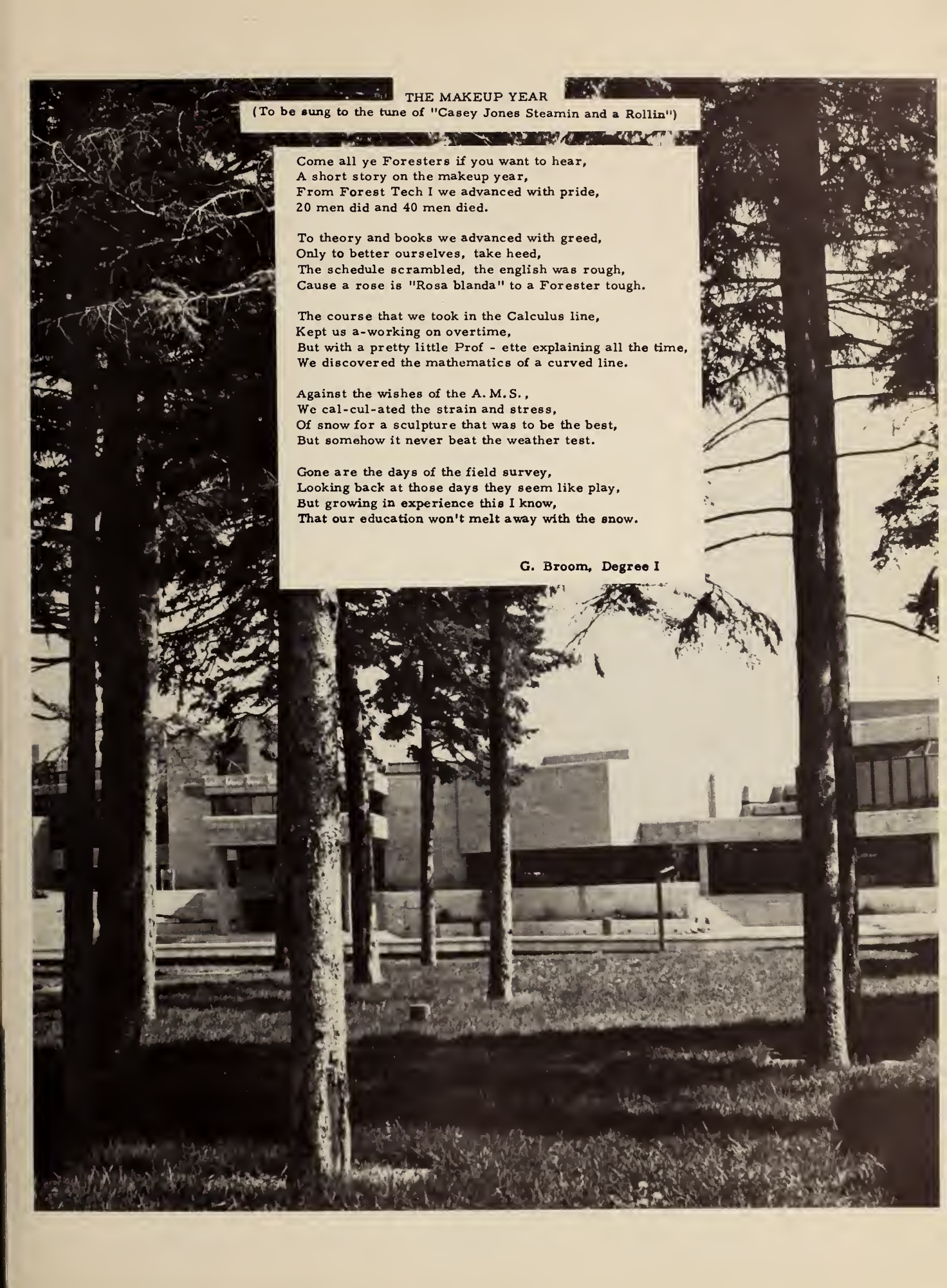
Following dinner Mr. Adams spoke as a devoted environmentalist compared the world to the commons area in the Feudal system of agriculture. In the world commons Mr. Adams gave N. America four choices: first, to increase our birth rate three times and catch up on the breeding race of numbers; second, to cruise along on our present haphazard course on a world scene; third, to conquer the world, ruling to our advantage; or fourth, help to set up a workable world government to enforce the limited use of world resources, to control world population and maintain a world wide living standard. Because the fourth choice was the only feasible one but would be the most difficult to form, perhaps we should think of these goals in regional development schemes.

All in all, this year's Symposium was a great success and supported from outside the University proper was tremendous. Congratulations to Gary McKellar, chairman, and his committee for a job well done.



Forestry Symposium continued



A black and white photograph of a campus scene. In the foreground, several tall, thin trees with dense foliage stand in a grassy area. In the background, a multi-story building with a modern architectural style is visible. The scene is captured in a wide-angle shot, with the trees framing the building.

THE MAKEUP YEAR

(To be sung to the tune of "Casey Jones Steamin and a Rollin")

Come all ye Foresters if you want to hear,
A short story on the makeup year,
From Forest Tech I we advanced with pride,
20 men did and 40 men died.

To theory and books we advanced with greed,
Only to better ourselves, take heed,
The schedule scrambled, the english was rough,
Cause a rose is "Rosa blanda" to a Forester tough.

The course that we took in the Calculus line,
Kept us a-working on overtime,
But with a pretty little Prof - ette explaining all the time,
We discovered the mathematics of a curved line.

Against the wishes of the A. M. S. ,
We cal-cul-ated the strain and stress,
Of snow for a sculpture that was to be the best,
But somehow it never beat the weather test.

Gone are the days of the field survey,
Looking back at those days they seem like play,
But growing in experience this I know,
That our education won't melt away with the snow.

G. Broom, Degree I

LOGGING TOURS



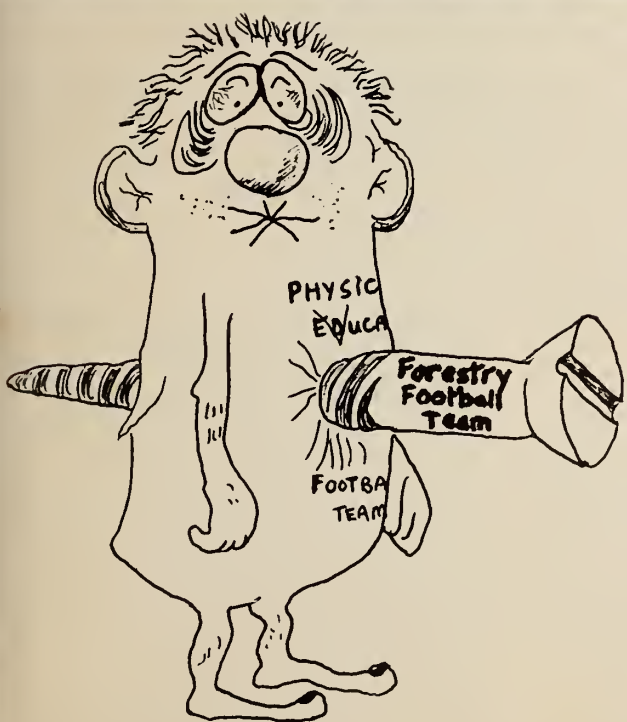
...a broken axle provides a warm break





Athletics





FLAG FOOTBALL (8 MAN)

TEAM I	TEAM II	TEAM III
W. Palubiski	Team	G. Parker
B. Ferguson		J. Stacey
B. Angel	list	G. Brown
D. Reid		R. Maki
E. Brown	not	D. Baufford
G. Zebruk		K. Wnoel
R. Flayer	available	B. Vida
G. McGuillivray		J. McCartney
R. Sherwin		M. Butler
B. Stoddart		P. Keenan
P. Jewiss		J. Myers
B. Kemp		M. Desjardins
M. McIntyre		J. Phillips
G. McKellar		S. Powell
J. Marchington		A. Raman
G. Pattysen		T. Bakalinski
K. Lockett		
G. Cowman		
T. Clayton(coach)		

(Happily) our No. 1 Team was the envy of all of the University compiling and impressive 5 and 0 record during the big season allowing only 1 point defensively and scoring 61. (Unhappily) the Quarterback Geoff Pattysen, had to leave the playing field midway through the first game because of a broken ankle which occurred when he was trampled by a herd of stampeding Artamen, (happily) Dave "Greek" Reid was able to fill in for him and finished the rest of the season at the helm. (Unhappily) we lost a semi-final game and were eliminated from further play. (Happily) we can still come back next year (unhappily) again?

The other two teams managed several wins each and did an excellent job of gaining valuable intramural points for the Faculty. Forestry III ended up in 8th spot and gave Phys. Ed. I & II a run for their money in the quarter finals.

	GAMES	WINS	LOSSES	TIES	POINTS
FORESTRY I	5	5	0	0	10
FORESTRY III	5	2	2	1	5
FORESTRY II	5	1	4	0	2

BROOMBALL

STANDINGS

	<u>Wins</u>	<u>Losses</u>	<u>Ties</u>	<u>Points</u>	<u>Position</u>
FORESTRY DEG. II	3	4	1	7	7
FORESTRY	2	5	1	5	8

TEAM I

R. Maki
P. Jewiss
S. Kaczanowski
T. Aho
B. Lagzin
J. Riley
R. McIlquham
B. Campbell
N. Goba
T. Woods

TEAM II

J. Myers
G. Hall
R. Brown
T. Bakalinski
G. Webb
P. Boyce
M. Desjardin
D. Laponen

A. Allen
D. Dool
G. Parker
S. Ball



FORESTRY DEGREE II BROOMBALL

The Forestry Degree II broomball team was plagued by a rather weird misfortune of too many players showing up for the games. This handicap of continuous line shuffle was why we just missed the play-offs. The final record was 3 wins, 4 losses and a tie with a determined Phys. Ed. team who needed a win for a first place finish. The most promising line was the scooter line of Aho, Jewiss and MacGillivray. Lots of relief was supplied by Woods, Lagdzin, Kaczanowski, Sedor, Stott, Thompson, Thomson, Austin, and Riley. Strong defence was supplied by Campbell, Nichols, Maki and McIlquham. Holding the fort was Goba. Most games which we won were after pre-game warmups at the Royalton.



HOCKEY

TEAM I

G. Cowman
G. McKellar
B. Stoddart
D. Hunt
G. Zebruk
G. LeMaistre
J. Deachman
D. Ried
B. Mitchell
G. Pattysen
R. Potvin
D. Penna
W. Palubiski --coaches
B. Ferguson --

TEAM II

J. Myers
J. Warren
S. Powell
R. Nash
D. Lightfoot
K. Wheel
F. Beck
J. Hastie
B. Brodie
M. Desjardins
D. Laponen
D. Dool
B. Baxter
A. Raman
D. Hollinger
G. Brown (coach)

TEAM III

G. Bloomfield
J. Buitenhuis
T. Aho
C. Marsh
G. MacGuillivray
I. Kondor
P. Jewiss
B. Campbell
R. Brown
R. Maki
B. Lagzin
N. Goba
D. Sneider
T. Stott
S. Baxter
M. Horbow
G. Olson

Team II, a first year team, played good hockey all season and were the only Forestry team to have a good shot at the championship. The team played very well as a unit and was assisted by some great defensive work by Mike Desjardins. The fellow from the east end, Allen Raman, should be nominated for an academy award for his performance in their last game of the season. Don Laponen, brought up from our farm team in Longlac, was 2nd in the scoring race this year. Congrats to Don L.

Team I, mostly third year boys, wound up in the championship in the consolation league after thrashing Forestry III in the semi-finals. Forestry III cleared the bench in the last minute and still couldn't score a goal on Gary "reflex" McKellar who took over for G. Cowman who retired the pad's halfway through the season to take on an offensive role on the team. Leading scorer on Team II was Gord "sticky stick" LeMaistre, and this season, Dave Ried and Bob Mitchell after four years in intramural hockey finally got their first goals of their careers.

Team III had steady performances from the goaly, Paul "stingy" Jewiss and the line of Aho, MacGuillivray and Olson. Thanks to all who participated and made this one of the best hockey seasons for Forestry in a long time.



BASKETBALL

TEAM I

P. Jewiss
P. Thompson
T. Thompson
G. Pattysen
B. Kemp
K. Wheel
G. Cowman

TEAM II

P. Copis
J. Minors
W. MacMillian
J. Marchington
B. Thompson
A. Raman
D. Readman
E. Cross

TEAM III

J. Myers
S. Powell
R. Nash
P. Boyce
A. Antapuk
J. Dew
J. Philips
B. McNeil
A. Allen
G. Webb
J. Bodrea
J. Stacey
R. Sherwin

TEAM IV

W. Palubiski
B. Stoddart
G. Zebruk
D. Reig
R. Rivard
B. Ferguson
G. McKellar

Of the four teams presented above only Team I made the playoffs this year. After a season of 8 wins, (5 by default) and 1 loss, the team not having played for seven weeks lost two in a row in the playoffs. The offensive punch was maintained by the Two Terrible Thompson's and Paul "the Jew" Jewiss. Burt Kemp when called upon showed some startling moves under the basket and some of the "Jocks" were left standing there without any.

Team II led by Pete "the streak" Copis, John "Dunker" Marchington and Dan "Baseline" Readman managed 3 wins and several near misses. Better luck next year Tech.

Team III the sleeper team came through with several wins at the start of the season but seemed to fade away towards the end. This was the first year team and it looks like they are in for better times (maybe next year, or the year after, or the year after that...etc.)

Team IV was slapped together with some spirit and hope. Half way through the season they ran out of bottled spirits and their hope disintegrated, so they dropped out of the league. Despite this they received steady performances from Ray "Hookshot" Rivard and Walter "Fats" Palubiski. Dave Ried had a little trouble dunking, but also played a steady game.



MISCELLANEOUS

Nanibijou's Paddle - The forestry canoe which held Steve Paul, Carson Herrick, Gunther Herbert and Greg Cowman finished in 4th spot with a time of 3:30:2. Lots of thanks to the other guys who showed up but were just too slow or sunk.



Cross Country - Who is Dale Shippam? Anyway, he entered as a forester and streaked to a second place finish with a time of 3:11:00. Hang in there Dale, who and where ever you are.

Golf - Dave "Greek" Ried the "mighty midget" finished second in the golf tournament. He rambled to an 89 overall and would have had a much better round if he hadn't shot a 69 on the back nine. Better luck next year Dave.



Track and Field - Here we finished in 5th spot, not too bad for a bunch of guys with pickled livers and tarred lungs. Davey, yeh the same guy who plays golf finished 3rd in the javelin. He must have been mad at his car and tried to spear it as it sat in the parking lot.

Mooseport "400" - Forestry and Science, a combined team finished, in 2nd spot and another all Forestry team finished 4th. Keep peddling guys.



FOUL SHOOTING: 1st place overall went to Paul Jewiss who shot 64% from the line. This was our only 1st place Trophy for the entire year. Congrats Paul.



VOLLEYBALL

G. Cowman	M. Desjardins	A. Clark
R. Brown	B. Murphy	R. Potvin
D. Ried	B. Kemp	G. Lemaistre

Again a fantastic season that ended in tragedy. We played 14 games and ended the season with 13 wins and 1 loss.

In the playoffs I don't think we won one game. During the season a lot of support came from Dave "knuckle serve" Ried and Bill "spike" Murphy, especially when the serves landed in and the spikes finally came down. The story in the playoffs was that the serves never landed in and the spikes never came down. Oh well??

FLOOR HOCKEY

Roger Brown	Jim Umpherson	Rod Nash
Mike Horbor	Allan Raman	Frank Beck
Scott Baxter	Glenn Brown	Jim Myers
John Buitenhuis	John Warren	Ray Pilkey

Well our floor hockey team came in third overall in this sport. I won't mention that there were only three teams in the league. Jim Flash Myers was the top scorer for Forestry with 15 goals and 15 assists for 30 points. Jim ended up in third in the scoring race. Good show guys and better luck next year.

SQUALLEYBALL

Bill Murphy, Roger Brown and G. Cowman were Forestry representatives in the squalleyball tournament. Squalley ball is something like volleyball only you can play the ball off the walls of a squash court. It's a good fast game, so fast in fact each team only played one game and the season ended. Forestry won it's only game played so we can claim a share in the squalleyball championship with three other teams.

SUMMARY

I would like to thank all those fellows who participated in the 71-72 sports program. We didn't win much in the way of championships, but we had a lot of fun doing it. We can, at least, take consolation in the fact that we are second to none in spirit and second place finishes.

A special vote of thanks should go out to the coaches and managers for getting their teams up for most of the games and also for those ardent few who showed up to the games to cheer their teams on to... well, cheer them on, anyway.

Next year with a full four year degree program and many stars returning, the road to a championship for Forestry is nearly at an end.

- J. G. Cowman

P.S. As an added note. At the S.A.S. Dinner dance on Friday March 24, we were told that we had 47% of the fellows in Forestry out to play one sport or another throughout the year. As a result we were presented with the Faculty Participation Trophy. (ie. Spirit Trophy). I guess the S.A.S. finally recognizes a fact that we have known for years.

CAN YOU SPARE THE TIME?

If I could say what I wanted to,
My thoughts I would relate,
But time is too expensive,
And I'd hate to have you wait.
This is how we're getting, it's not how it should be,
It once was great, we had the faith,
Together we were _____ a team,
But somehow we're straying, and do not seem to care,
For the unity is going that it may seem unimpaired.
Now you're in L. U. F. A. and so am I,
Let's try to keep our unity high,
Once again as a team we must play,
And with the faith,
L. U. F. A. will stay!

P, COPIS



LAKEHEAD C UNIVERSITY 72 A R N I V A L WINTER



Shown above are the Karnival Queen and King, Debbie White (Arts) and Dave Reid (Nursing). They were selected at last Saturday's Wind-up Dance. Among the contestants were Brenda Boudreau (French Club), Cookie Poirier (Geology), Debby Baldwin (Engineering), Jean Hershey (Forestry), Leslie Vescio (Degree Nursing). The Princes included Dave Powers (Geology), Steve Sepulchre (French Club) and Rick Player (Forestry).

Winter Carnival 1972

Winter Carnival this year as we all know was changed from the traditional schedule of events. The Carnival windup ball was dropped as an end to the festivities and replaced by a bandarama which turned out to be very popular. The King Prince, Princess Contest, the Snow Sculpture and the parade were also dropped as officially sanctioned A.M.S. functions.

The Prince and Princess contest eventually was picked up and sponsored by the Geology Club to whom we owe thanks for showing some spirit. Jean Hershey of Ed. and Richard Player of Forestry Degree III were Forestry's contestants and everyone was very pleased to have them as our representatives. Thanks very much Jean and Rick.

The Bushman's Ball proved to be one of the highlights starting off the festivities of Winter Carnival. Forestry again won the Bike Race from Pigeon River. We were well represented in the hockey tournament with a team comprised mainly of first year students, which came second.

Winter Carnival again proved to be one of the most eventful times of the year with the Ontario Government making plenty from its taxes on beer and liquor. Everyone will be looking forward to Winter Carnival again next year and with a little cooperation and organization Forestry can once again show their school spirit as the one really dominant Faculty in the school.

by Roy Potvin



L.U.N.A. Back-Rubs



Carnival '72.. The Year of the Cannon

Well fans, here it's Sunday again and Winter Carnival is now past history. We are all hung over so don't expect too much this week.

The highlight of Winter Carnival came when ESS kidnapped the Geology Princess, Cookie Poirier and forced the Geology Club to pay \$25 ransom. The Geology Club retaliated the next day by walking off with the Engineers' cannon. Geology then auctioned the thing off to the highest bidder which turned out to be Forestry at \$31. The only reason Forestry had to bid that high was because LUNA, which was giving backrubs, needed a paperweight and had some money to bid for it.

The Engineers couldn't even scrape together enough money to buy themselves a soggy sandwich. The ransom and auction proceeds went to the Canadian National Institute for the Blind.

Note: Cannons are going for more money than princesses. Incidentally, there are a number of cannons littering the parks of

this fair city. I wonders what a bright, enterprising young person could get for them? However, all proceeds should go to the C.N.I.B.

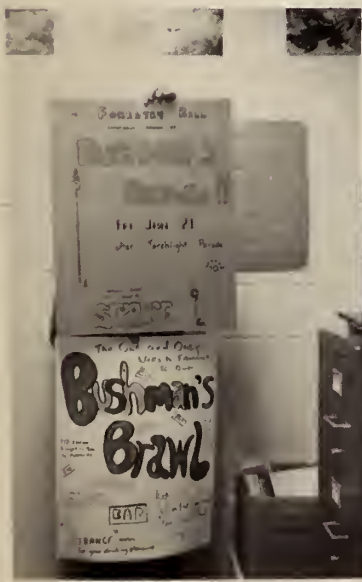
There seems to be a definite difference between school spirit and hard work. The apathy towards hard work could be noticed by the number of snow sculptures that were built and by the lack of Karnival Floats. However, the school spirit was shown by the number of students who turned out for the club-sponsored Carnival Windup. The turnout for this event far exceeded any previous records.

On the negative side, one can only be dismayed at the malicious damage that someone or group has been doing around the University of late. At least a half a dozen doors have been kicked in, the Mall window display was broken, and the men's room completely wrecked (Women's lib strikes again?). This wanton damage leaves a bad aftertaste and is giving the student body a bad name even though we feel that it is not being done by students.

It has been stated that there are too many Yahoos that sit guzzling beer instead of dancing.



Girls' Team in the Boat Races. Note their anchor MAN!



CARNIVAL BOAT RACES



FORESTRY BOAT RACING TEAM

Mike Horan, George Zebruck, Rick Player, Jim Harrison, Mike Folkema



Forestry Crosscut Competition



WHO WANTS TO GO SOUTH?



It's nothing but Foam!



FORESTRY

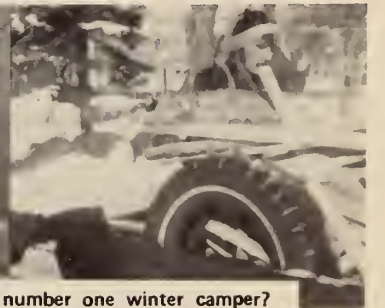
It was a chilly 29 degrees below zero in the downtown north ward by mid-morning today and anybody on the streets was hurriedly rushing

from place to place to keep out of the cold. However, in Connaught Park students of the Forestry school at

Lakehead University are camping out of doors as part of LU's winter carnival.



Helen Nowak cooks Mayor Saul Laskin breakfast.



Hey Wolfgang, who's this year's number one winter camper? Wolfgang told me Joe Schwartz was caught hustling in a corner of the tent one night.

THE BICYCLE RACE

...pigeon river to thunder bay

LIQUOR
STORE

osing with newly acquired lubricants.



Pass the bottle, you hog!



I think they are following us.



You bet were tough!



This isn't the way to Florida, Bruce.



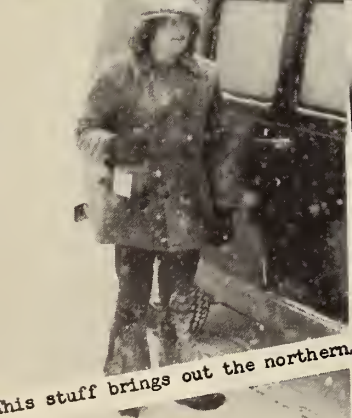
...Keep on trucking...



Cuddles strikes again



You and your summer tires



this stuff brings out the northern lights



These guys smell bicycle seats



So much for bring your own plug



Ooh...I hate cold hands

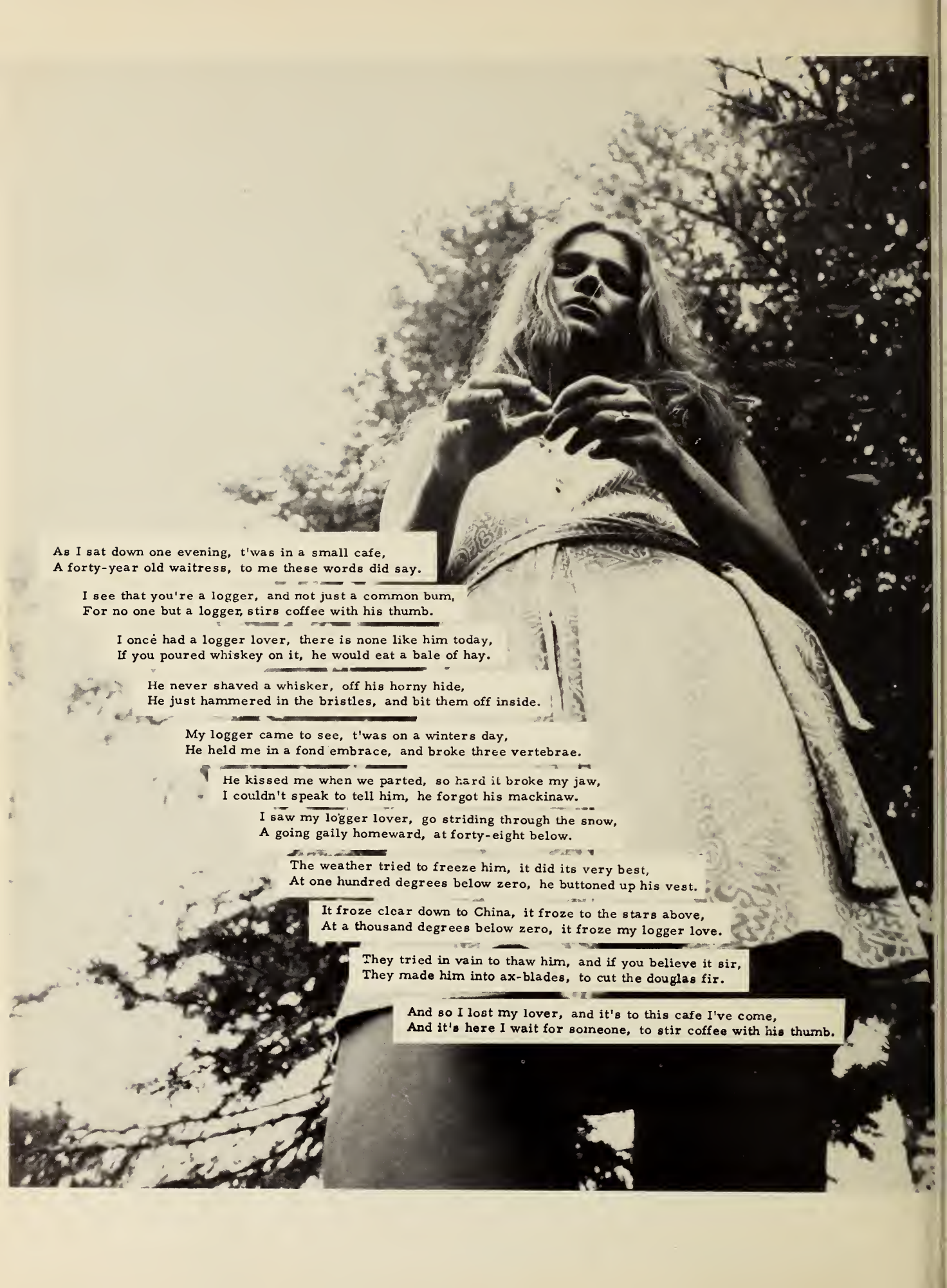
...carnival windup



Dave Reid and Rick Player awaiting the decision



As for Forestry during carnival: we were first and last in the border-to-LU bike race with the same team; we built a snow sculpture, we lost a heart-breaking championship hockey match against business giving up a score with three seconds to go; provided song leadership at the Last Chance Saloon; had warm-up parties and helped our Nor'westers defeat Lea College and U of Manitoba with some roof raising cheers; we offered for sale, one University; I think that's a great deal done in a week. Way to go Forestry.



As I sat down one evening, t'was in a small cafe,
A forty-year old waitress, to me these words did say.

I see that you're a logger, and not just a common bum,
For no one but a logger, stirs coffee with his thumb.

I oncè had a logger lover, there is none like him today,
If you poured whiskey on it, he would eat a bale of hay.

He never shaved a whisker, off his horny hide,
He just hammered in the bristles, and bit them off inside.

My logger came to see, t'was on a winters day,
He held me in a fond embrace, and broke three vertebrae.

He kissed me when we parted, so hard it broke my jaw,
I couldn't speak to tell him, he forgot his mackinaw.

I saw my logger lover, go striding through the snow,
A going gaily homeward, at forty-eight below.

The weather tried to freeze him, it did its very best,
At one hundred degrees below zero, he buttoned up his vest.

It froze clear down to China, it froze to the stars above,
At a thousand degrees below zero, it froze my logger love.

They tried in vain to thaw him, and if you believe it sir,
They made him into ax-blades, to cut the douglas fir.

And so I lost my lover, and it's to this cafe I've come,
And it's here I wait for someone, to stir coffee with his thumb.

In the managing of
Canada's Forest Resources,
most people are
seemingly indifferent to
the role of the Forester.
This is because
the Forester is
too willing to compromise
his position based on
proven scientific facts and
acquired experiences.
To gain
the status he seeks,
the Forester must
develop and pursue
with determination
every opportunity
to be heard,
then consistently present
a sound message
with conviction.

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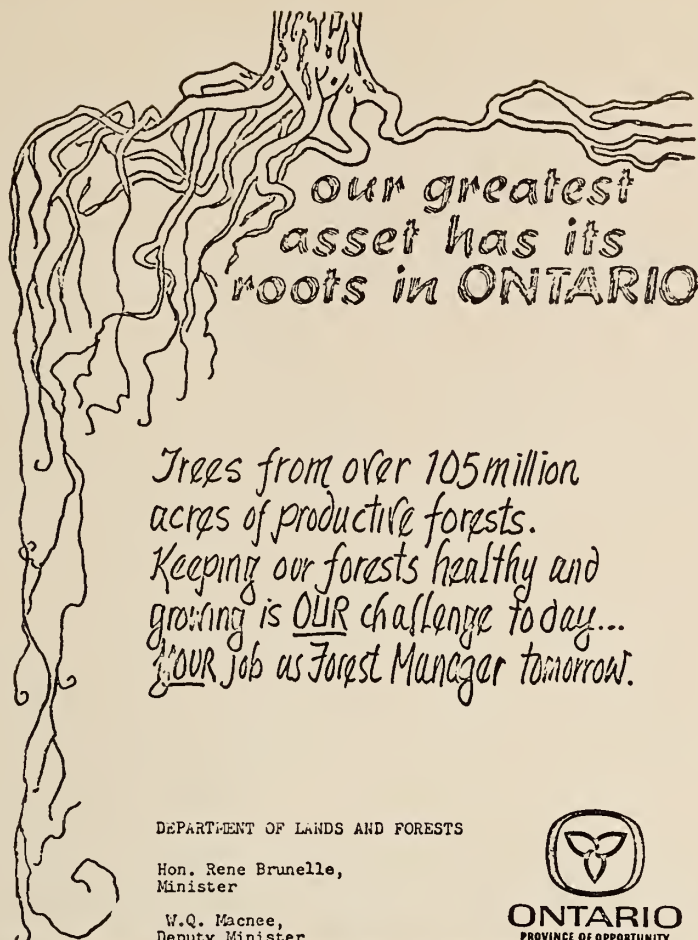
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YOUR job as Forest Manager tomorrow.*

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Ach du Liebe!



Tennis anyone?



She's not much but she'll do.



Do I look like I'm a seal?



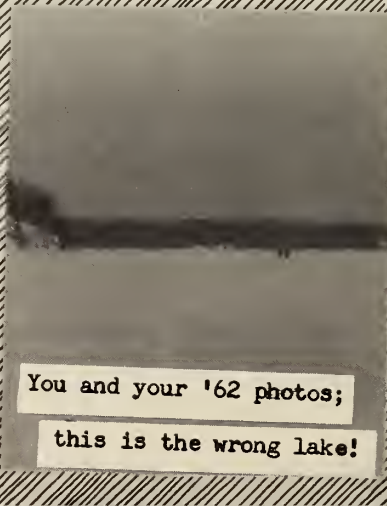
Look...A German carp!



One little, two little, three little fishes



Check that



You and your '62 photos;
this is the wrong lake!



Do I bore you?



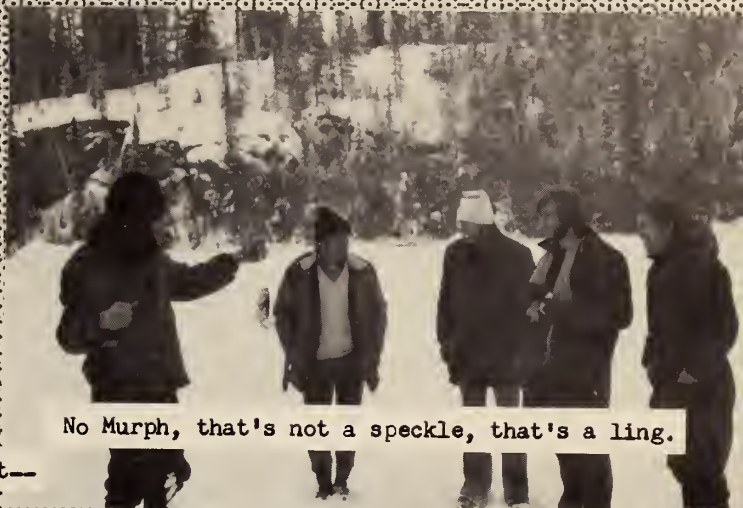
Yep, its a long walk out of here



"George??"



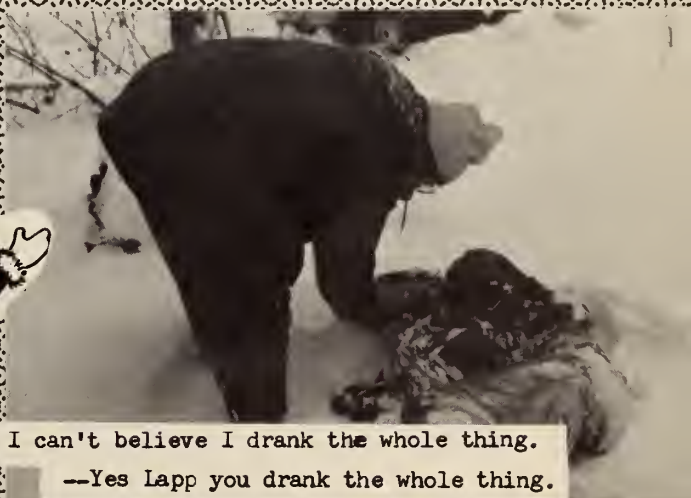
hat was that--Rape a bear and kill an Eskimo..or is it--



No Murph, that's not a speckle, that's a ling.

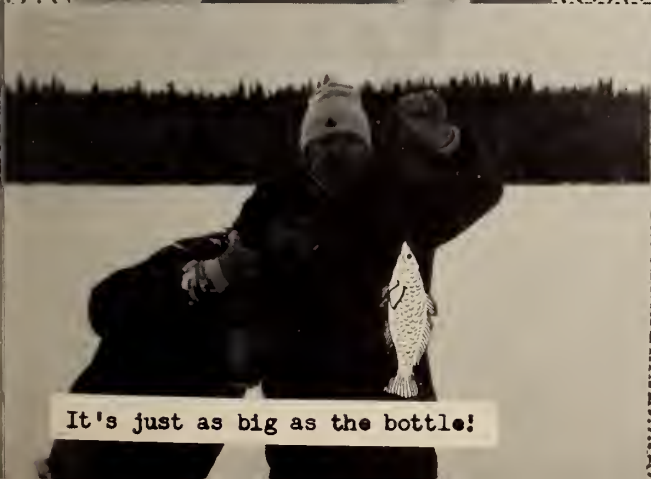


"Holy Batman, it's alive!"



I can't believe I drank the whole thing.

--Yes Lapp you drank the whole thing.



It's just as big as the bottle!



Don't tell me how to open cans.

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Where's the beer?



"A word from our new Pres."



The mighty Mac.



Pure virgin Stan?d

Where's that yellow birch Leo?



If I lose I have to what!

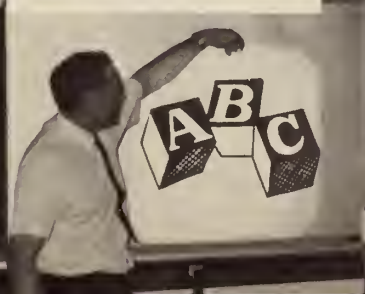
If that dirty man
peeks in here once more...



Try me, you'll like it



(Were all out of goof)

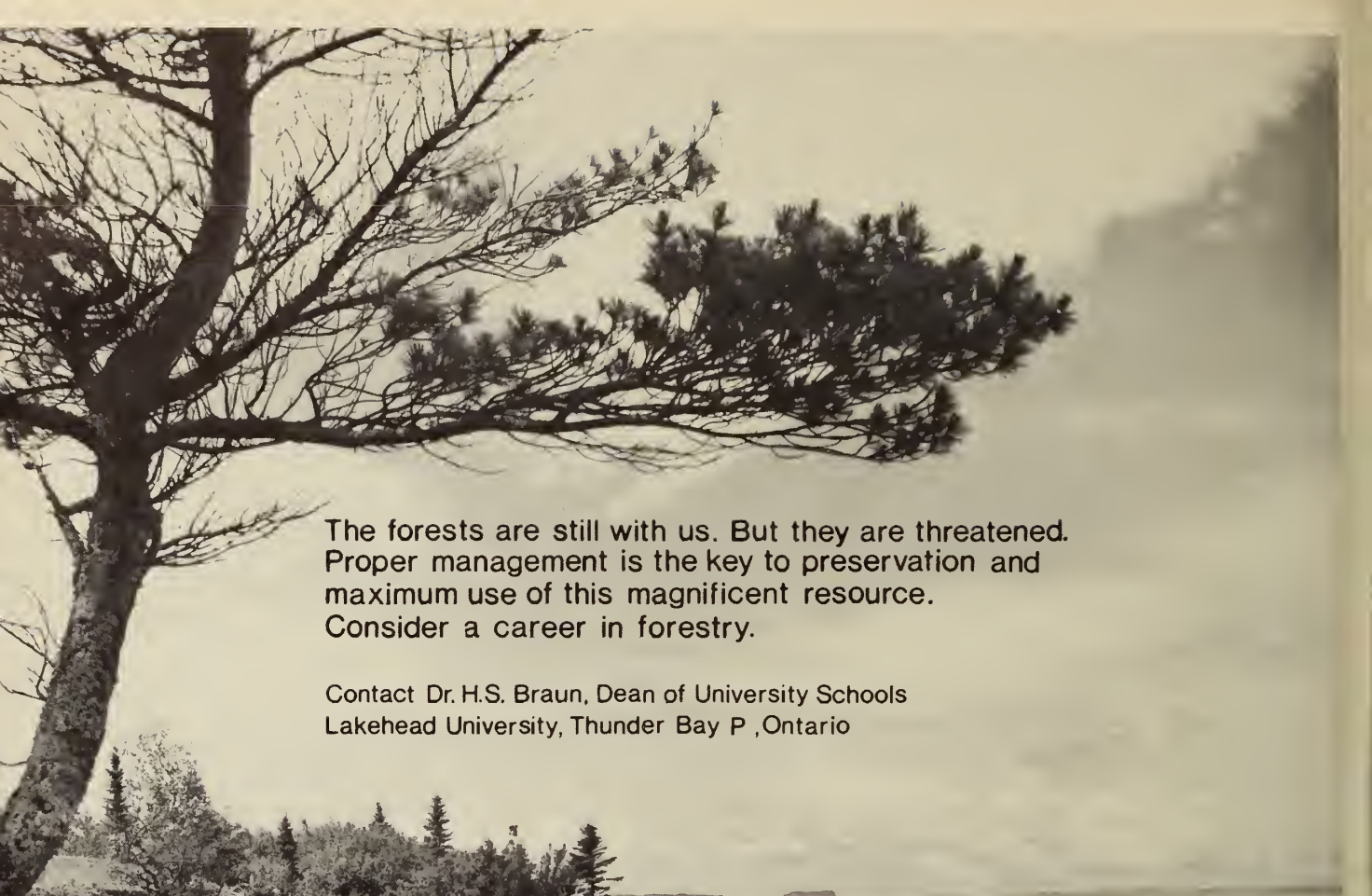


a couple more dozy foresters

CANDID SHOTS







The forests are still with us. But they are threatened.
Proper management is the key to preservation and
maximum use of this magnificent resource.
Consider a career in forestry.

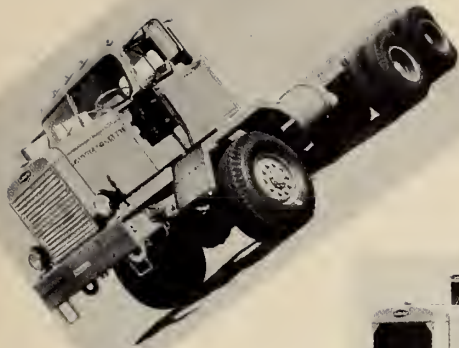
Contact Dr. H.S. Braun, Dean of University Schools
Lakehead University, Thunder Bay P, Ontario



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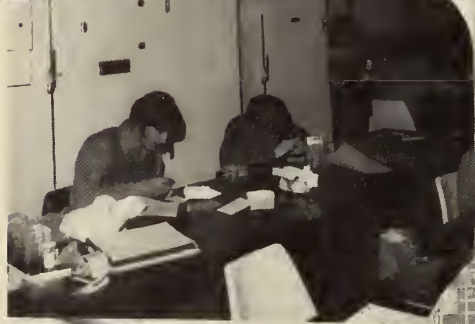
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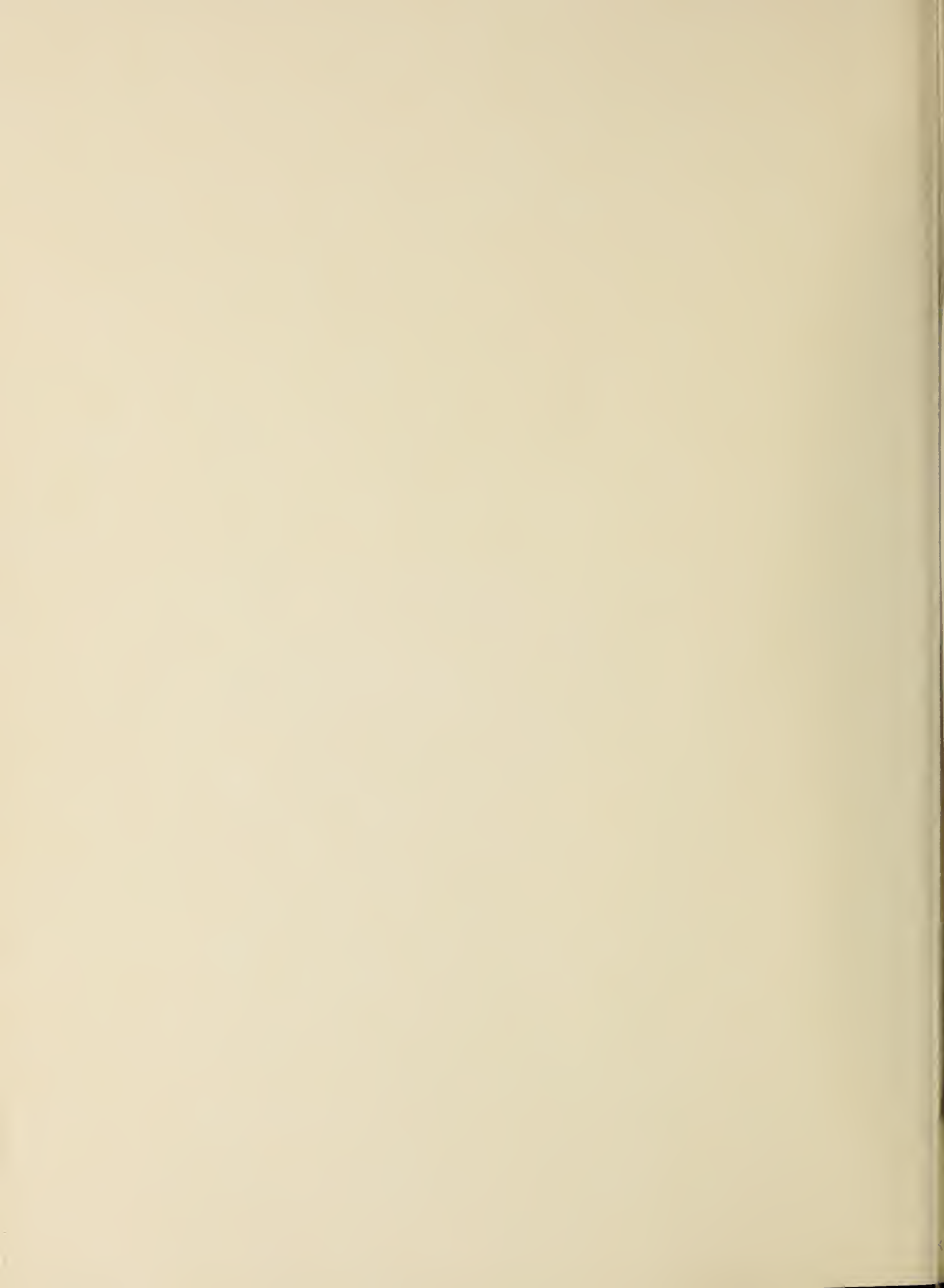
Bottom Left John Marchington, Mike Folkema (Editor), Fred Austin,
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