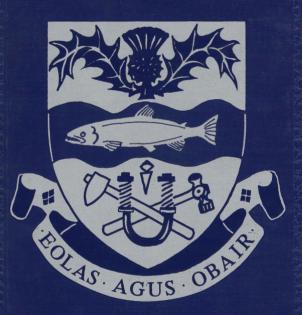
TECH FLASH







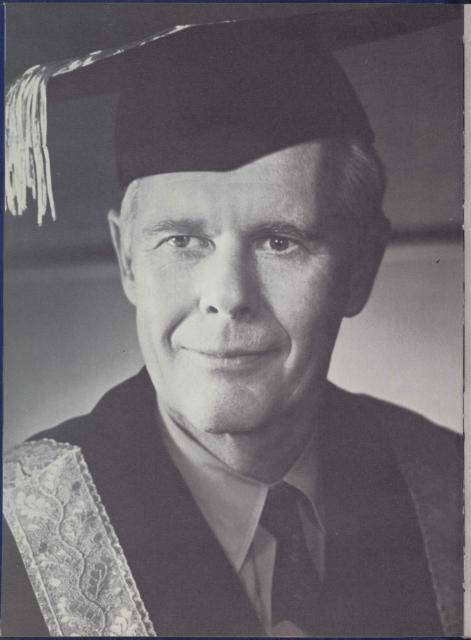




1972

tech flash

presented by the students of nova scotia technical college halifax, nova scotia



The 1972 graduates

01

Nova Scotia Technical College

take pride

in

dedicating this yearbook

to

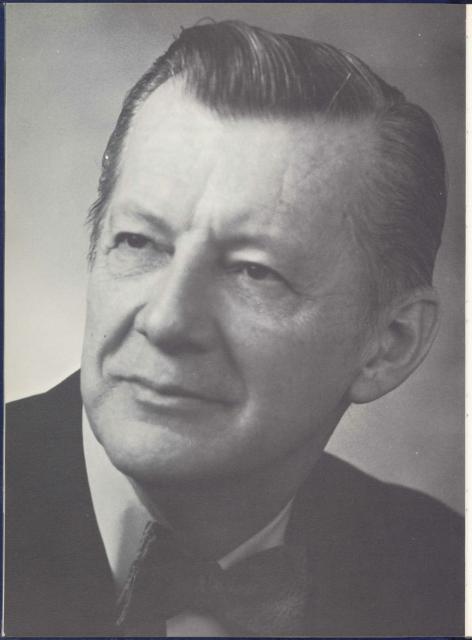
DR. C. NORMAN SIMPSON,

their Chancellor.

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Advertisements







NOVA SCOTIA TECHNICAL COLLEGE P. O. BOX 1000 HALIFAX, N. S.

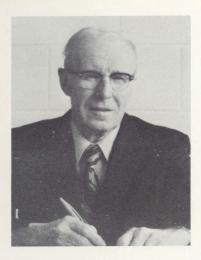
To the engineers and architects who make up this graduating class of 1972, I ask you to remember that this is a year of the "seventies". You are trained, up to this point, to be creative thinkers. You are certainly needed in the fields for which you have been trained, but creative thinkers of the "seventies" are also needed in the field of government and business administration. You have your college training, which is of exceptional excellence, now try to train yourself to be able to work with people toward an undisputed degree of sound professional ethics.

The education one gets now and in the future will continue to change, but the individual is the same human person, who must be able to adapt to ever changing situations.

We, at the College, wish you nothing but the best for the future, remembering that you follow an illustrious group of alumni. Try to help them uphold their standards of excellence.

A. E. Steeves, P.Eng., Acting President.

PRESIDENT



To those of you who will receive your post graduate degrees in May may I offer my sincere congratulations on the completion of another difficult phase in your academic career. Only the man or woman who has written arthesis good enough to satisfy a large number of very particular people can really appreciate what you have done. You have demonstrated that you can tackle a problem and put a solution down on paper.

To those of you who will continue your graduate work here may I offer you encouragement as you tackle the tasks which lie ahead. We will all look forward to the results of your efforts and you can be assured of the continued support of those who have undertaken to guide you in your work.

You will all go on to solve harder problems and the good wishes of all of the staff go with you. Many of you will be scholars, others leaders in business, government, industry and education. We can not foresee how you will serve your fellow man but we know you will do it as befits well trained professionals. On behalf of the Graduate Faculty I wish you health, happiness and success.

M. R. Foran, Dean, Graduate Studies

DEAN OF GRADUATE STUDIES



Graduation in engineering is a goal worthy of years of hard study. The benefits should not be measured solely in terms of financial reward. The advantages include basic appreciation of much of the fundamental elements of modern life. In this respect, engineering education can be thought of as an excellent general education that is suitable as a preparation for almost any career.

Most of you will no doubt be most interested in contributing to society by finding employment in areas closely related to your specialty.

I hope that you will be concerned with worthwhile endeavours and I join with the Faculty in wishing you every success.

Orest Cochkanoff Acting Dean of Engineering

DEAN OF ENGINEERING



During the past year, my involvements with Student Affairs have given me the opportunity to be part of the many facets of student life at Tech and I have been priveleged to have associations on a personal basis with many of you. Such involvements and associations strengthen my opinion that while Tech students normally tend to be undemonstrative, they have a deep sense of loyalty to fellow students and to Tech.

The spectrum of extra-curricular activities is wide, ranging from such frivolties as the Tech Revue to the more serious participation in the professional societies which are represented on campus. It was within this spectrum that individuals and groups displayed the enthusiasm and activity which, over the year, made up an essential part of life at Tech. It has been my experience that extra-curricular activities

do not belong solely to the university environment, neither are they any less important in an industrial environment. You entered Tech with the aim of studying towards a degree and for those of you who graduate, that aim will have been achieved. I am confident, however, that along with the recognition of your academic efforts, you take with you the invaluable experience of meeting and dealing with fellow students and faculty on both academic and non-academic matters. To those of you who remain at Tech for another year. I hope that campus life can continue to be pleasantly identified by many and varied descriptions. To those of you who are leaving, my sincere best wishes for a successful future.

Nelson Ferguson Assistant to the Dean of Students

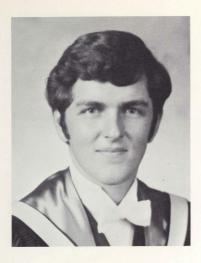
DEAN OF STUDENTS



Having come to the end of your undergraduate courses you would be unusual if you were not anxious to shake off an accumulation of chalk dust and begin the professional stage of your careers. I wish you well in your endeavours where, I am sure, you will display the same high levels of motivation and industry that have been needed to get you so far. Congratulations!

P. Manning, Director, School of Architecture.

OF ARCHITECTURE



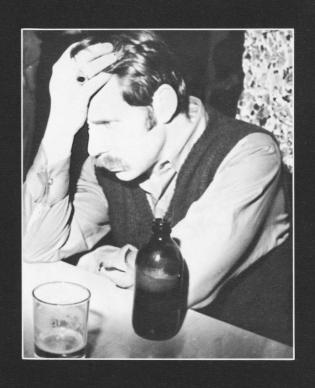
This has been a very successful year for student activites and I would thank all of you who made it so.

I hope that in the future you may all continue your life with the same enthusiasm and effort that you have shown at Tech. The sports program, dances, formals, smokers, Tech ball projects, newspaper, yearbook, clubs, and professional associations, blood donor clinics, Tech review, and class spirit could not have been possible without your interest and participation.

I wish you every success in your future endeavours and good luck.

Mike Zareski President, Student Council

PRESIDENT STUDENT COUNCIL



THE YEAR IN REVIEW

APENS EIC























FALL SMOKER

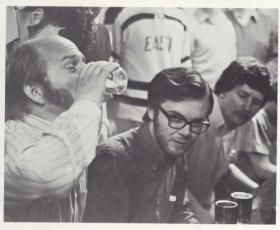














FRIDAY NIGHT DANCES









GOOD





TIMES



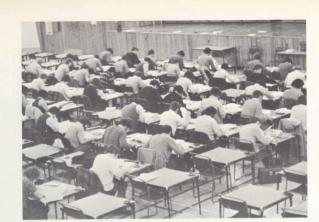


















TECH ON THE MOVE







TECH BALL





THE WINNER







OPEN HOUSE











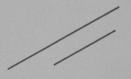














THAT EVENING

















TECH REVIEW





























SPRING SMOKER

BOAT RACE CHAMPS

- SR. CIVIL



















HERE AND





THERE











































TECH



EXAMS

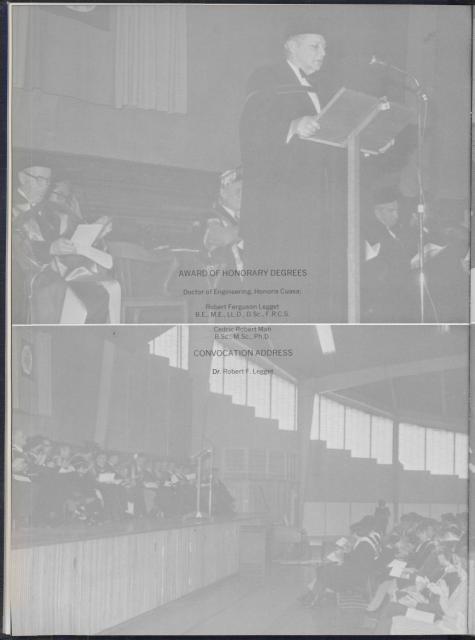








CONVOCATION





NATIONAL RESEARCH COUNCIL SCHOLARSHIP

Howard Lloyd Mucumber James Robert Matthews Alphonsus Woodfine David Bir Van Dyer

NOVA SCOTIA LIGHT AND POWER COMPANY FELLOWSHIP
Timothy Clark McCormick

NATIONAL RESEARCH COUNCIL BURSARY
John Albert Strasser

POST GRADUATE AWARDS GOVERNOR-GENERAL'S MEDAL Charles G. K. Moore

> ALUMNI MEDAL Blake T. Higgins

ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL Jon E. Murray

ASSOCIATION OF PROFESSION ENGINEERS OF NOVA SCOTIA PRIZE Derrick J. Aucoin

NOVA SCOTIA ASSOCIATION OF ARCHITECTS PRIZE Gerald L. Dube

MEDALS AND PRIZES





MASTER OF ENGINEERING

Atkinson, Kenneth David, B.Eng., N.S.T.C.	Ottawa, Ont.
Chim, Aaron, B.Sc., Chu Hai	Toronto, Ont.
Cooke, Edwin Colin, B.Sc. (E.E.), Queen's	Halifax N S
Erving, William Joseph, B.Eng., N.S.T.C.	Halifax, N.S.
Hassan, Hanny Assaf, B.E.Sc., U.W.O.	Toledo Obio
Kauldher, Mohinder, Singh, B.Sc. Eng., Punjab	Dunish India
Khanna, Rajendra Nath, B.Tech., I.I.T. Kanpur	Punjab, India
Kumar Anil B Sc. Panish	Halifax, N.S.
Kumar, Anil, B.Sc., Panjab	Don Mills, Ont.
Kwan, Stephen Pak-Shun, B. Eng., N.S.T.C.	Halifax, N.S.
Lo, Kenneth Kwok-Kuen, H.N.C., R.C.S.T.	Halifax, N.S.
McCormick, Timothy Clark, B.Eng., N.S.T.C.	Annapolis Royal, N.S.
Mamaghanie, Manuchehr Missaghie, B.Sc., M.E.T.U. Ankara	Teheran Iran
Menon, Radakrishna, B.Tech., I.I.T. Bombay	Halifay NS
Merriam, Peter Randall, B.Eng., N.S.T.C.	Halifax, N.S.
Rockwell, Maria Constantin, Ing., M.U. Petrosani	Halifay N.C.
Stojanovic, Sinisa, Ing. Ljubljana	naillax, N.S.
Unnal Pamoch P.So (Fng.) Dalla:	Beigrade, Yugoslavia
Uppal, Ramesh, B.Sc. (Eng.), Delhi	Halifax, N.S.
Van Dyer, David Bir, B.Eng., N.S.T.C.	Arima, Trinidad
Verma, Vijya Kumar, B.Sc., Panjab	Halifax, N.S.

MASTER OF SCIENCE

Boucher, Paul Sylvio Roland, B.Sc., Dal	Boucher, Paul Sylvio Roland, B.Sc., Dal		Cownsville. Oue.
---	---	--	------------------

MASTER OF ARCHITECTURE

Basu, Sreemay, B.Arch., I.I.T. Kharagpur	Calcutta, India
Dejmek, Ludmila, Arch., A.F.A. Prague	Burlington Ont
Won, Sui-man, A.B., Wash. U.	Hong Kong

DOCTOR OF PHILOSOPHY

Hollingshead, Roger Spence, B.Eng., M.Eng., N.S.T.C.	Halifax, N.S.
Nurthy, Naimi, B.Sc., Mysore, B. Eng., I.I.S., M.Sc., Manc	Lusaka, Zambia
	Ottawa, Ont.

POST GRADUATES

CONVOCATION TEA AND GRADUATION BALL





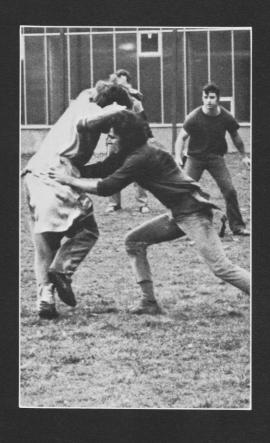












ATHLETICS



Each year that I am asked to write an article on athletics here at Tech the task becomes a little more difficult. I should not call it a task, as I consider it an honor to be able to pass on some of the comments of the students with regard to the overall programme, and in particular to our Intra Murals.

They consider that the Intra Murals are second to none in the Atlantic Provinces. It is this kind of thinking, along with the overall participation of the students, that makes this programme so successful.

I would like to extend a ver sincere thank you to the Athletic Chairman and his committee who are responsible for the operation of Intra Murals in making this programme the success that it is.

Bob Coe

ATHLETIC DIRECTOR



VARSITY SOCCER

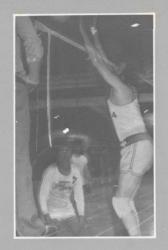












VARSITY VOLLEYBALL



CONFERANCE CHAMPIONS









VARSITY BASKETBALL













VARSITY HOCKEY







JR. YEAR VS SR. YEAR COMPETITION

 FOOTBALL
 —
 Sr Year
 BASKETBALL
 —
 Jr Year

 VOLLEYBALL
 —
 Sr Year
 CURLING
 —
 Sr Year

SPORTS AWARDS

ATHLETIC AWARD — E. Caldwell — Sr Chem

M.V.P. SOCCER — E. Caldwell — Sr Chem

M.V.P. BASKETBALL — D. Cousens — Grad Chem

M.V.P. HOCKEY — M. Brooks — Arch Co-Op 1

N.S. CONFERENCE BASKETBALL ALLSTAR — R. Estey — Sr. Indust
G. Churchill — Arch Co-Op 2

N.S. CONFERENCE VOLLEYBALL CHAMPIONSHIP

LADY BUNG TROPHY — T. Murphy — Sr Mech

BOARD OF GOVERNORS TROPHY — Sr Civils

E.I.C. TROPHY — Sr Year







INTERFAC FOOTBALL



SR. CIVIL — CHAMPS

















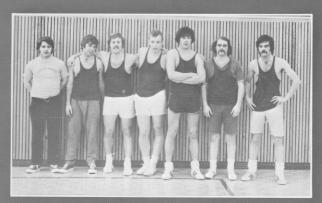








INTERFAC BASKETBALL



SR. INDUSTRIAL "B" - CHAMPS























INTERFAC VOLLEYBALL

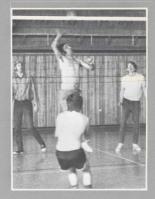


ARCHS 6 — CHAMPS























INTERFAC HOCKEY



ARCHITECTS — CHAMPS



















INTERFAC TENNIS





AGGIES GRADS,

& STAFF

— CHAMPS









INTERFAC PING PONG





SINGLES JR. CIVIL -- CHAMP



DOUBLES:

— CHAMPS







SR. CIVIL "A" - CHAMPS

INTERFAC BOWLING



INTERFAC CROSS COUNTRY



JR. MECHS - CHAMPS



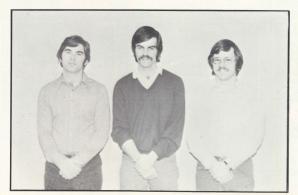
INTERFAC CURLING

SR. MECH "A" - CHAMPS









INTERFAC GOLF

SR. INDUSTRIALS

- CHAMPS

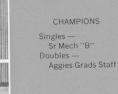




INTERFAC BADMINTON









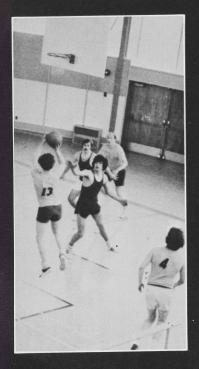




BOARD OF GOVERNORS TROPHY STANDINGS

TEAMS	HOCKEY		VOLLEY BALL	CURL- ING	BOWL- ING	FOOT BALL	TABLE TENNIS	CROSS CNTRY	TENNIS	BAD MINTON	GOLF	TOTAL	POSITION
SR CIVIL	18.51	18.33	17.50	16.97	12.78	18.00	12.01	-	_	11.85	10.00	135.95	1
SR INDUSTRIAL	11.11	20.00	18.33	13.95	13.05	19.33	_	8.00	_	11.02	15.00	129.79	2
SR MECHANICAL	12.60	11.10	15.83	19.40	8.34	15.32	12.69	12.00	_	13.67	_	120.95	3
AGGIES GRADS STAFF	12.60	15.57	11.68	14.55	13.90	11.33	-	6.00	12.00	14.11	-	111.74	4
SR MIN MET CHEMS	14.08	16.10	19.19	12.72	10.00	15.32	-	2.00	7.00	_	8.00	104.41	5
ARCHITECTS	16.30	15.57	18.33	9.70	12.22	6.67	_	-		2.64	12.00	93.43	6
JR MIN MET CHEMS	17.04	10.00	10.00	13.33	_	14.68	-	-	_	13.67	2.00	80.72	7
SR ELECTRICAL	9.64	-	16.68	-	10.00	8.67	12.10	10.00	_	12.35	-	79.44	8
JR CIVIL	5.56	8.90	9.59	10.30	10.28	12.00	10.38	-	_	9.26	-	76.27	9
JR INDUSTRIAL	5.56	15.00	-	13.33	_	14.00	_	4.00	_	_	_	51.89	10
JR ELECTRICAL	3.72	6.67	7.92	_	4.45	5.00	15.00	_	-	4.41	- 3	47.17	11
JR MECHANICAL	3.72	8.34	_	-	_	5.00	_	15.00	_	11.02	_	43.08	12

















SPORTS BANQUET













ADMINISTRATION



MR. V. F. O'CONNOR REGISTRAR



MR. C. R. LLOYD BUSAR



MAJOR C. J. FEAR ADMINISTRATIVE ASSISTANT



MISS M. L. BARKER PUBLIC RELATIONS



PROF. A. E. CREELMAN DIRECTOR, DEPT. OF EXTENSION



PROF. P. C. HAMILTON PLACEMENT OFFICER



EXECUTIVE COMMITTEE — BOARD OF GOVERNORS.



SEXTON HOUSE (FACULTY CLUB).





M. R. HUSSAIN LIBRARIAN

LIBRARY

















Bursar's Office D. Munro, J. Moignard, S. Chiarot, P. Mulchany, L. Gale, E. Rennehan.



Research Accounting: L.E. Bell Miss F. Rice



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Pres. Office: Mrs. M. Archibald



Grad. Studies: Mrs. M. Letham



Placement Office: Mrs. S. Simpson



Switchboard: Miss B. MacLellan



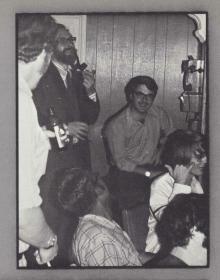
Bookstore: B.C. Gillie



SOCIETIES AND CLUBS

TECH HOUSE

The Old One







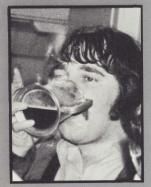




beveral persons left homeless b Hammonds Plains, Halifax fire



The Fire



The New One









TECH WIVES



























TECH WIVES







D. SPIRONELLO — STUDENTS COUNCIL SECRETARY



SPORTS COMMITTEE





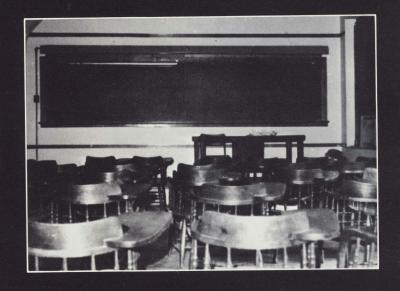


GOLD T'S Doug Burke Wayne Hamilton Philip Hubley Doug McLearn Doug Nickerson John Sherwood Rick Spironello John Wonnacott Mike Zareski

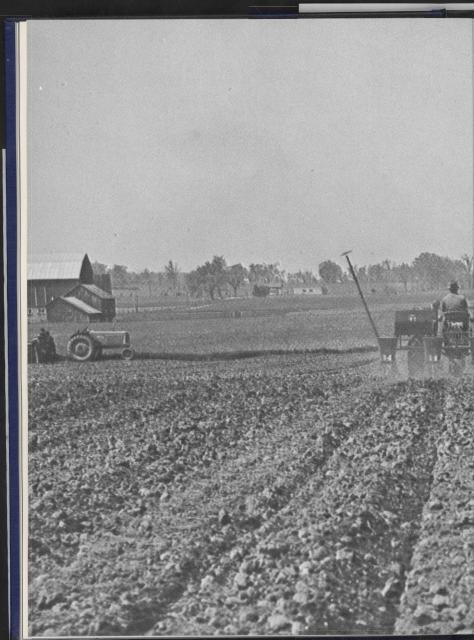
SILVER T'S

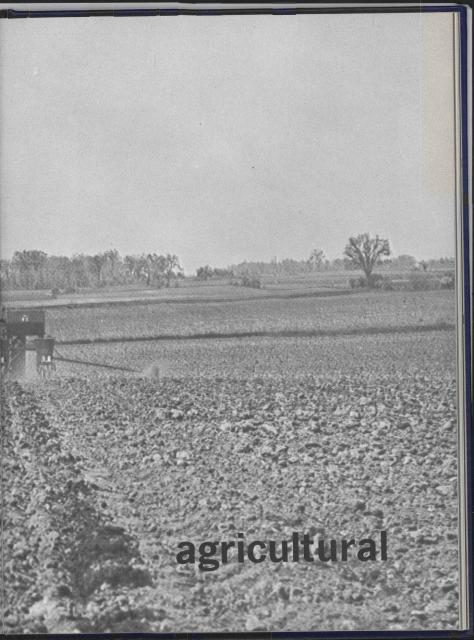
Pete Babb Doug Bain Doug Hunt Gerry Isenor Ed MacDonald Gord Parsons Jon Murray Derrick Aucoin Leon Livingstone Ed Caldwell Brian Power David Hamlyn Don Bragg John Rideout Don Smith Ron Jacques Dick Estey Andrew Kierstead Kieth MacDonald Bill Delaney Don Duncan Bill Foster Bob Lusk Charles Moore Paul O'Brien Bill Vardy Brian Walsh

Doug Burke
Wayne Hamiltor
Philip Hubley
Doug McLearn
Doug McLearn
Doug Mickerson
John Sherwood
Rick Spironello
John Wonnacot'
Mike Zareski
Dave Gammel
Jim Knight
Mike McGill
Mike Kroger
Bruce Marks
Terry Reed
Bob Verge
Gord Warnica
Curry Alders
Harry Daema
Blake Higgins
Guido Kelly
Tom Kenny
Terry Murphy
Lloyd Schofield



GRADUATES







On behalf of my colleagues, I congratulate you on obtaining your first degree in Agricultural Engineering. For some of you this will mark the end of your formal education. Your knowledge acquisition process is, however, just beginning. In the short period of time you spend obtaining a degree, the facts you learn are of secondary importance to acquiring an appreciation for the unknown, and learning the skills to either overcome or cope with it.

It has been a pleasure associating with you during the past two years (some a while longer). You have been a very ambitious class and have established a high standard for future classes.

As the first graduating class of agricultural engineers from Atlantic Canada, you have the potential to make a unique contribution to the Agricultural industry, the engineering profession, and your College. Please make the best of it.

GOOD LUCK!

W. Carson, B.Sc., M.S., Ph.D.



W. CARSON



MISS L. McKEOWN



J. D. MacAULAY

STAFF



HENRY E. BENT Halifax, N.S.



DAVID W. GAMMELL Newton Mills, N.S.



PETER W. JOHNSON Truro, N.S.



GEORGE D. FRAME Shubenacadie, N.S.



LAURENCE F. HONEY Halifax, N.S.



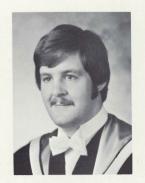
JAMES F. KNIGHT Young's Cove Rd., N.B.



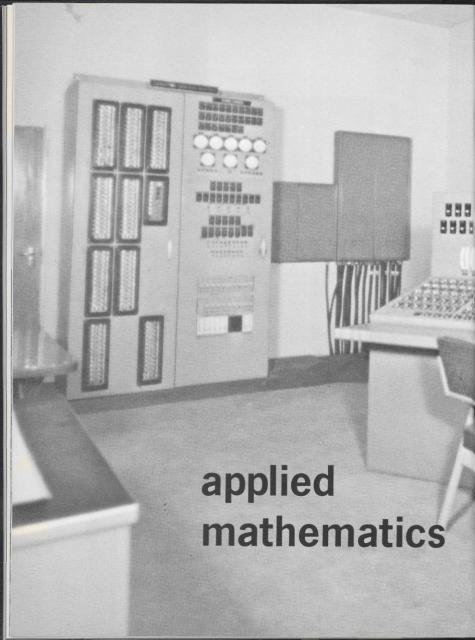
MICHAEL H. McGILL Saint John, N.B.



MURRAY M. PARKER Newport, N.S.



GEORGE F. SEARLE Truro, N.S.







Our department is possibly the most well-known (notorious?) part of the engineering faculty since all students get a rubbing from us at some time. I know that many engineers wonder how anyone could ever like our discipline and whether there would be any use of all those techniques for them. The short answer is: we like it and you need it! The number of 'innumerate' jobs is decreasing fast and soon Joe Sliderule will be out of luck in most places. So please go on messing up our computer room for a while; it may well pay off in the end, but just remember: garbage in = garbage out.

Jo H. L. Ahrens, D.A.E., Dr. Nat. Sc.

HEAD OF DEPARTMENT



J. F. GOODFELLOW



S. N. SARWAL



G. FINKE



D. S. CHEHIL

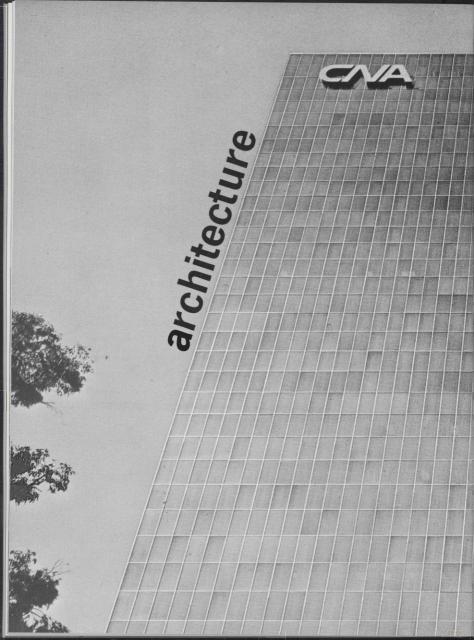


MRS. S. SUTHERLAND



MISS V. ELLIS

STAFF







Unlike the issue for 1970, Tech Flash 1972 will show you for what you really are. I shall remember you for your wanderlust (and the Eindhoven Affair) and your sometimes earthy expression of sometimes up-in-the-clouds ideas. My good wishes for your future include a lot more travelling, professional success and, to keep you on your toes in middle age, large numbers of juniors who may be good-natured and intelligent but must be argumentative and assertive.

P. Manning, AA Dipl., Ph.D

HEAD OF DEPARTMENT



D. PROCOS



M. MACALIK



O. BISKAPS



A. PENNEY



B. S. HAKIN



A. J. DONAHUE



V. LYMAN



K. HURLEY



M. RUBINGER



F. EPPELL



P. TOMAN



MISS C. ADAMS



MISS D. RAMEY



MRS. G. CONWAY

STAFF



DONALD J. BEATON Inverness, N.S.



PHILLIP L. BOURQUE Downsview, Ont.



MARTIN G. B. BRUCKNER St. John's, Nfld.



GERALD L. V. DUBE Halifax, N.S.



ROBERT COLE Dartmouth, N.S.



JAMES M. HANCOCK Halifax, N.S.



ROBERT B. GUTHRIE Halifax, N.S.



BARRY W. JOHNS Halifax, N.S.



LARRY D. JONES Charlottetown, P.E.I.



HARRY V. JOST



STEPHEN G. KISILENKO Lachine, P.Q.



JON E. MURRAY Centreville, N.S.



GEORGE E. MacFARLANE Fredericton, N.B.



RICHARD E. MacISSAC Port Hood, N.S.



JAMES D. PURVES Wolfville, N.S.



GREGORY A. ROBINSON Halifax, N.S.



IAN F. G. ROBINSON HALIFAX, N.S.



HAROLD M. S. SMITH Lakefield, P.Q.



BARRY S. STAVERT Sydney, N.S.



DOUGLAS G. WARD Halifax, N.S.

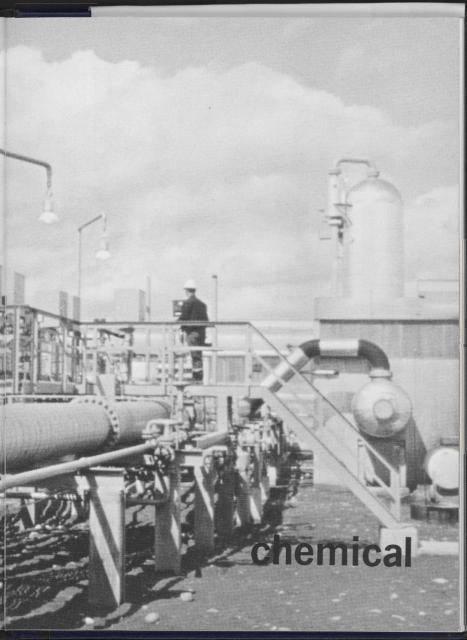


DEREK J. WATSON Halifax, N.S.



THE KERNEL







On behalf of my colleagues and myself, I would like to congratulate each of you. We trust that you will find your careers in engineering personally rewarding.

The next few years will be important to your career and to engineering as a profession. The strength of the profession will depend very much upon your active support for and participation in professional organizations. Engineering has important role to play in determining the future complexion of our society. That role will be more adequate as more of you become active participants.

G. David M. MacKay, B.Eng., M.Eng., Ph.D.

HEAD OF DEPARTMENT



A. F. McMILLAN



B. H. CHEN



D. COUSENS



A. Y. McLEAN



MRS. P. PURCELL

STAFF



DERRICK J. AUCOIN Reserve Mines, N.S.



ALBERT F. FONG Willowdale, Ont.



DAVID P. HEALEY Grand Falls, Nfld.



EDWARD E. CALDWELL Newport, N.S.



DAVID G. HAMLYN Halifax, N.S.



LEON A. LIVINGSTONE Port Hood, N.S.



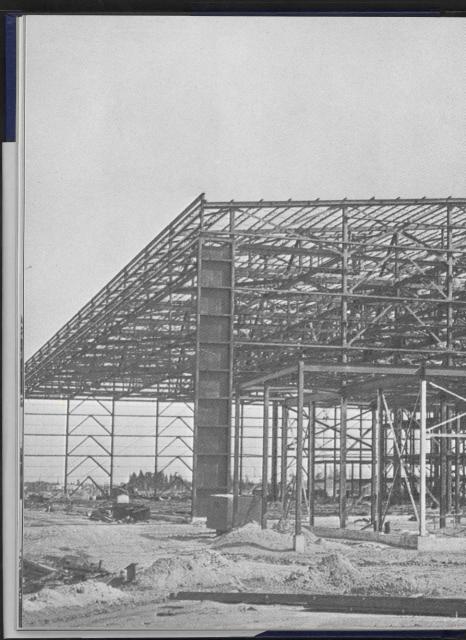
BRIAN F. POWER St. John's, Nfld.

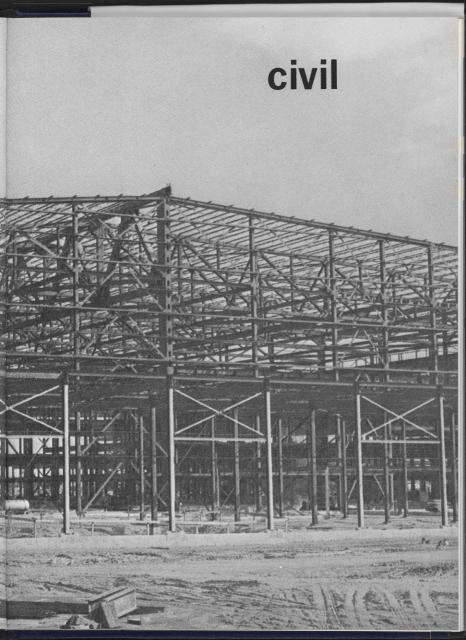


DIPAK L. SOIN Toronto, Ont.



L. ADRIAN WHITE Halifax, N.S.







On behalf ρ f all members of the Civil Engineering Department, I offer each one of you congratulations in obtaining your engineering degree. I am sure that you will be serving your profession well.

Civil Engineering offers you an interesting and creative career. Your energies will be required to alleviate problems in transportation, pollution control, and urban renewal, to mention just a few.

I hope that you will keep abreast of new developments by futher education and by taking part in technological innovations.

Best wishes for your professional career wherever you may go.

G.G. Meyerhof, B.Sc., M.Sc., Ph.D., D.Sc., P.Eng.



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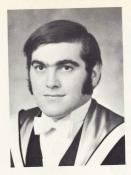
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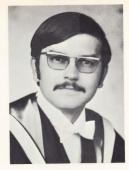
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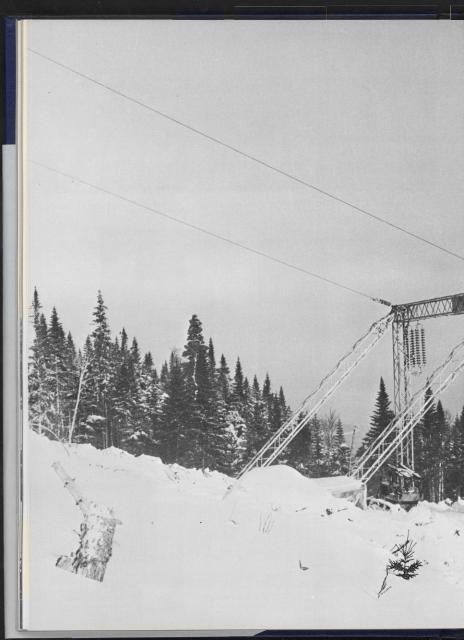
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I and all my colleagues in the Department of Electrical Engineering congratulate you all cordially on obtaining your first degree. We also thank you for the many occasions when you have shown enthusiasm, camaraderie, and tolerance — all of which have made your presence here a joy to us.

You have now demonstrated an ability to master fundamental concepts, and have even taken part in some real life engineering through laboratory and project work. We hope that you will remember that only through continuing updating of these principles will you become the real masters of our galloping technology. While most of us on the staff came through the vacuum-tube technological era, we were not able to pass on that technology to you

except in a historical context. It can only be hoped that the applications we have tried to teach you will be valuable for a short time, the structure that remains is what you must continue to build on. Perhaps in the next few years a completely new facade will be required, but as engineers, you will still be required to reduce all problems to their very essence, down to principles. We wish you every success on entering your profession. As graduates of Tech. you carry on a noble tradition—that of providing the best engineering service available. We have every confidence that you will live up to it!

Good Luck!

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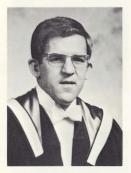
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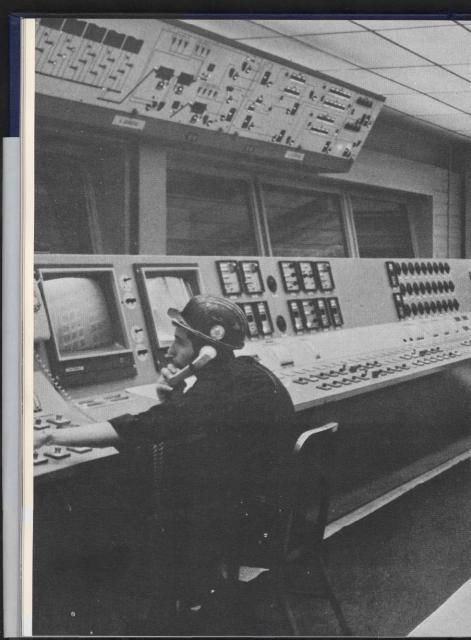
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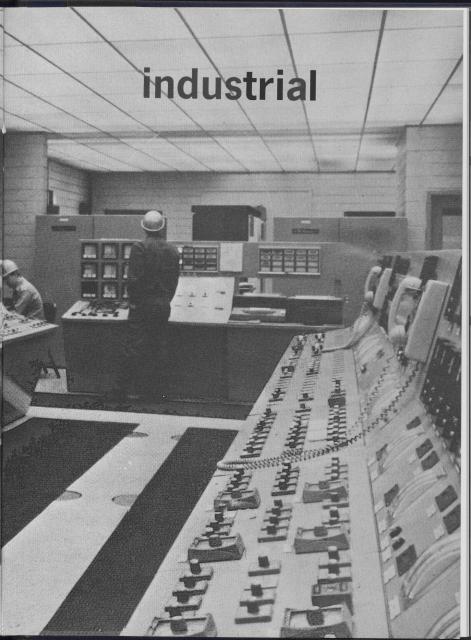
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On behalf of all members of the Industrial Engineering Department, I offer each one of you congratulations in obtaining your engineering degree. I am sure that you will serve your profession well.

You are starting your professional career in a world in which the winds of change have never before blown more strongly. Take advantage of this and seek to broaden your education, experience and to develop your competency. Above all, insure that you get along well with your associates and learn to accept their idiosyncrasies.

Your image can be enhanced by your involvement in professional groups, for instance, A.I.I.E., CORS, EIC and your provincial Professional Engineering Association.

Good Luck

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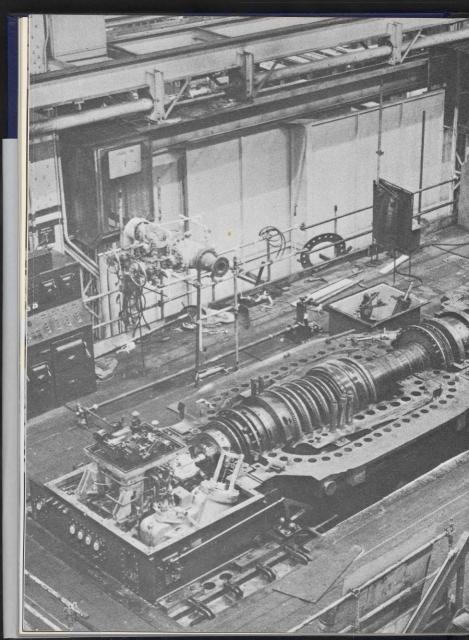
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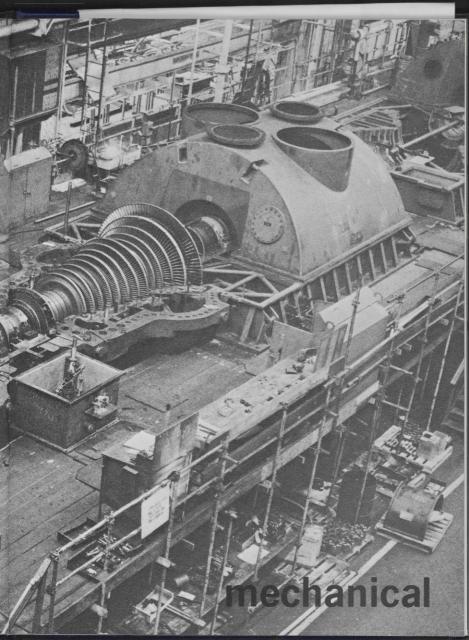
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Tech has offered you an excellent opportunity to obtain a good start in engineering. Although you have been involved with some aspects of the profession, much remains to be learned as you continue in your career. Your involvement with engineering is not going to be confined to machines alone and I am sure you are all aware of the increasingly important role of Mechanical Engineers in our society.

We wish you all continued success and hope there will be many opportunities for members of the Department to renew friendships with you in the years ahead.

O. Cochkanoff, B.A.Sc., M.A.Sc., Ph.D., P.Eng.



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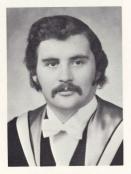
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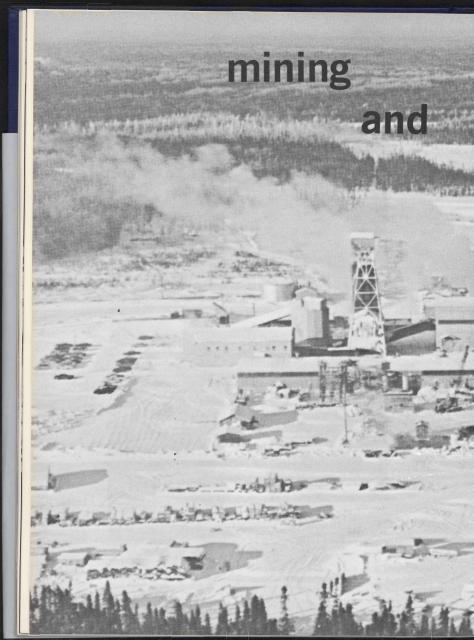
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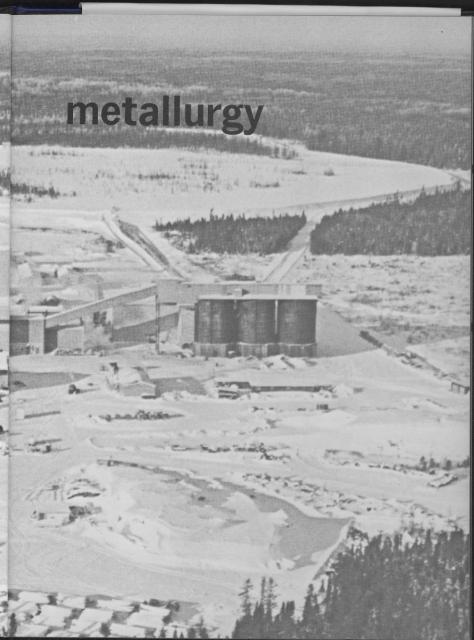


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You are members of one of the largest graduating classes in Mining and Metallurgical Engineering at Nova Scotia Tech.

We are certain that you realize that you are only at the first milestone on the road to a professional career. Your training has provided you with a master key for solving many practical problems. However, this key will avail you little if you do not develop the power of adapting, modifying and correlating your lore of principles to suit the varying sets of conditions you may encounter. It is only experience that can develop this power and, in this sense, your engineering training is life long.

Education does not consist of the mere aquisition of knowledge but of the aquisition of the art of the utilization of knowledge.

Our wish to all of you is good health, opportunity and courage to serve your generation in devotion to a worthy cause.

K. V. Gow, B.A.Sc., M.Sc., Ph.D.

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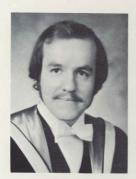
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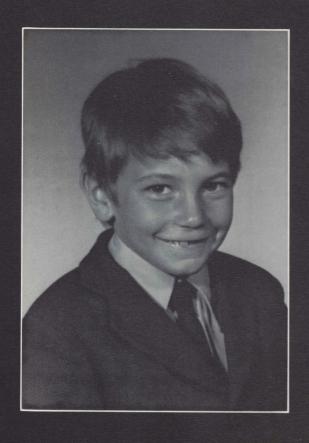
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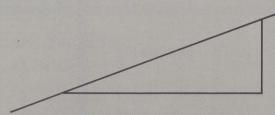


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Published by Josten's/National School Services Ltv Winnipeg, Manitoba, Canada. or or er er er





