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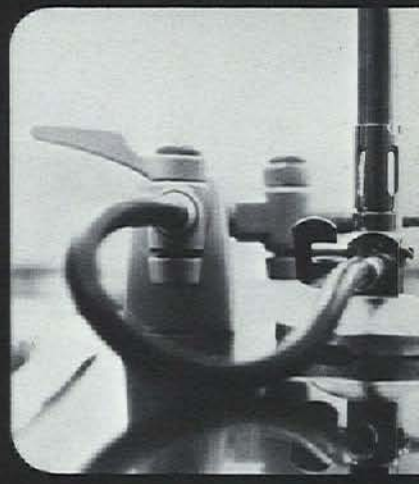

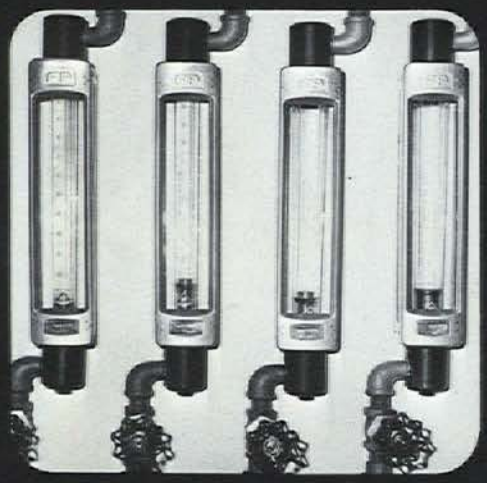

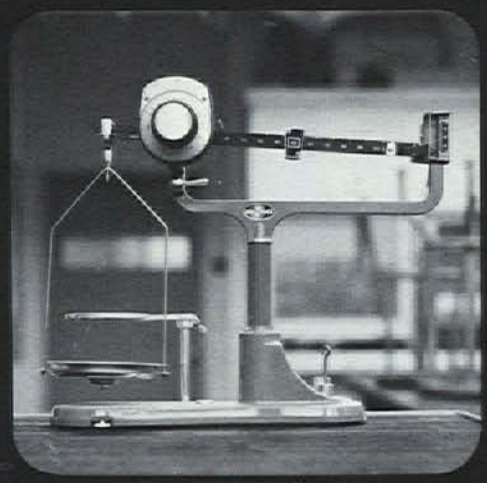

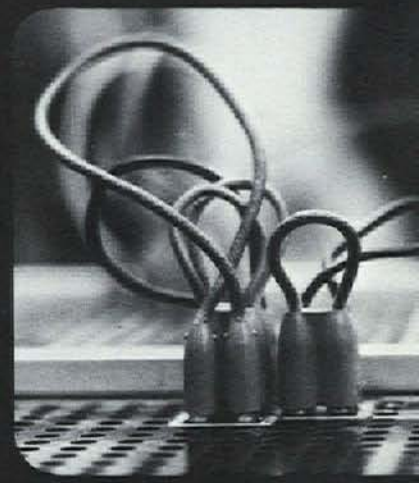

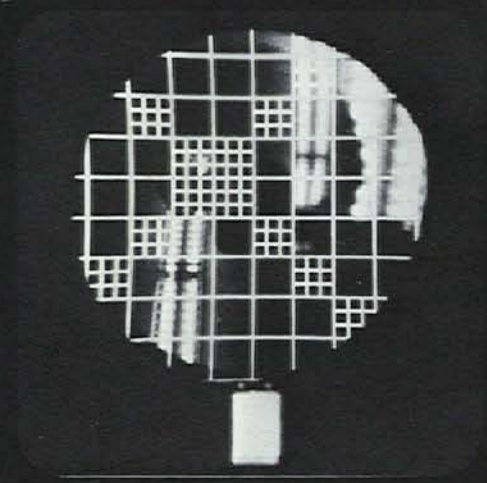

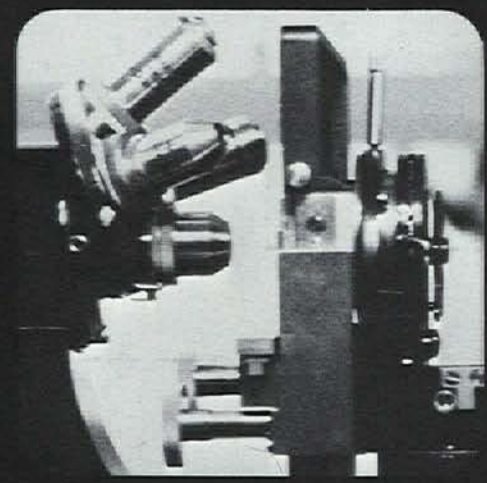


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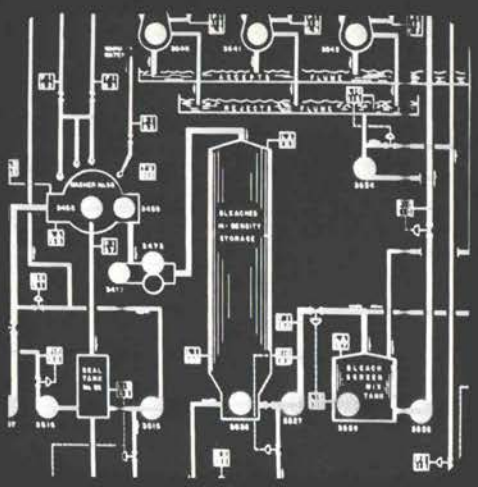
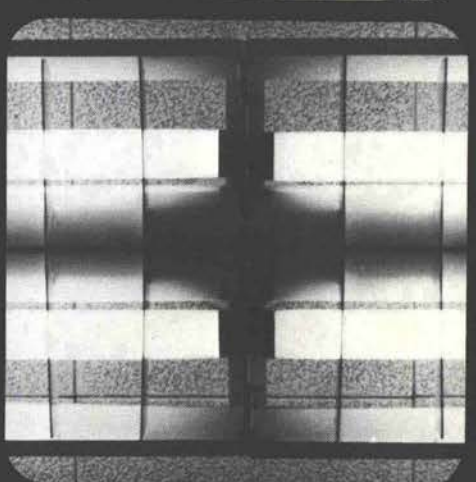
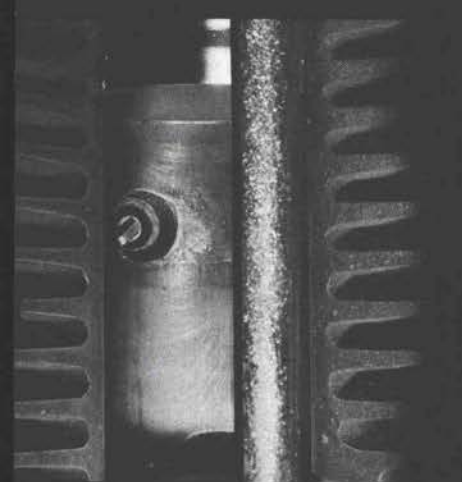
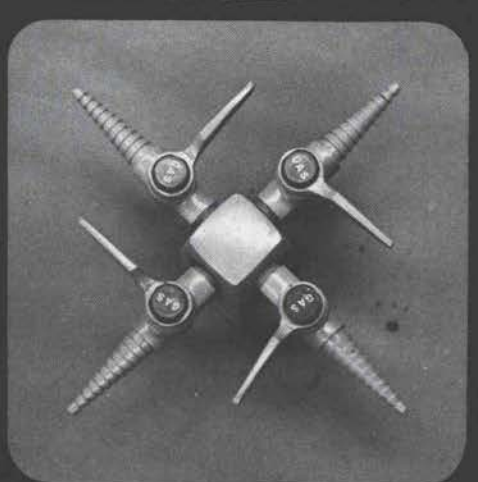
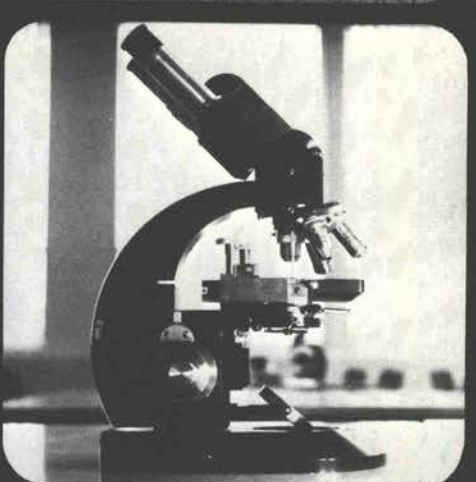
BCIT Alumni Association

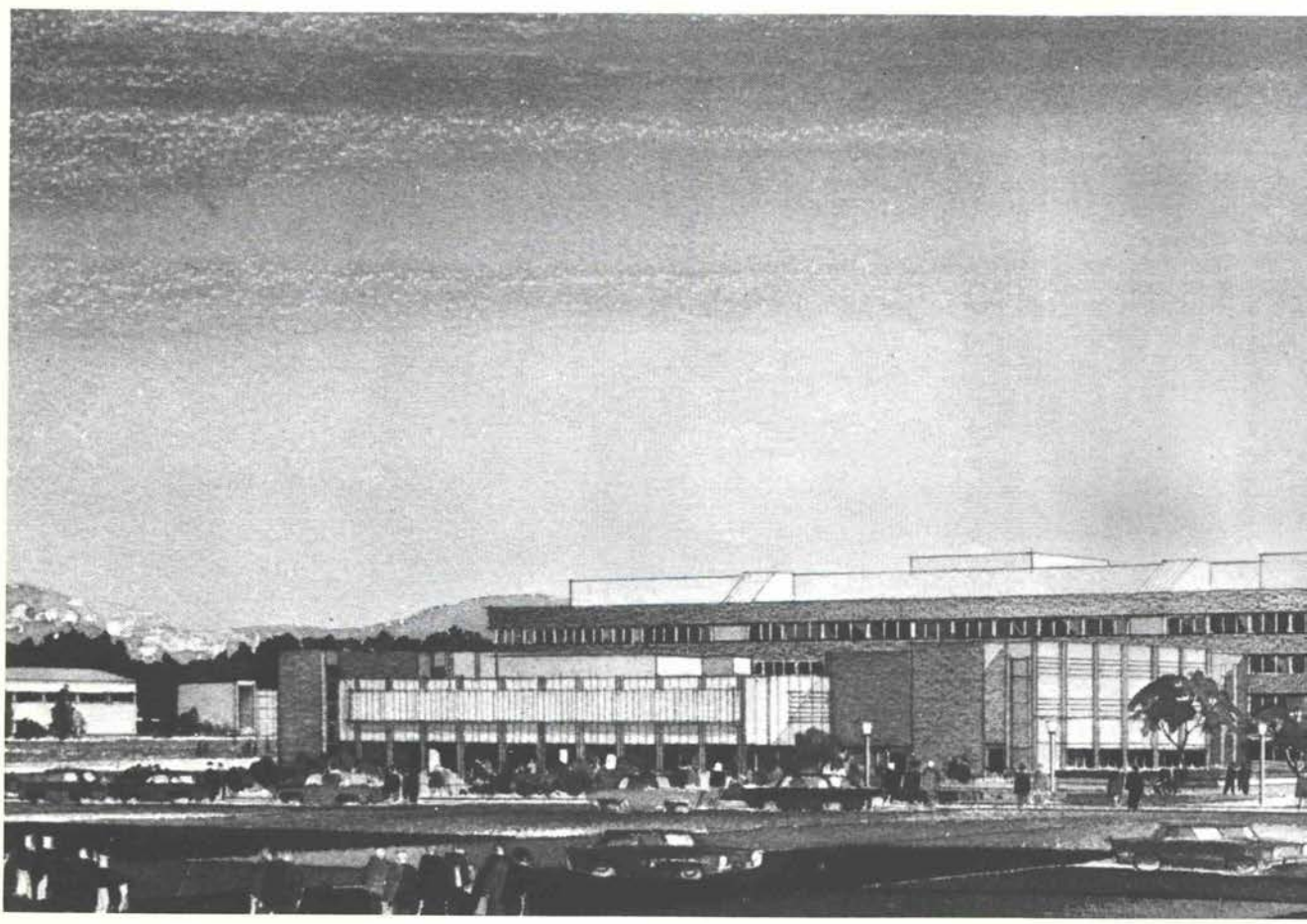







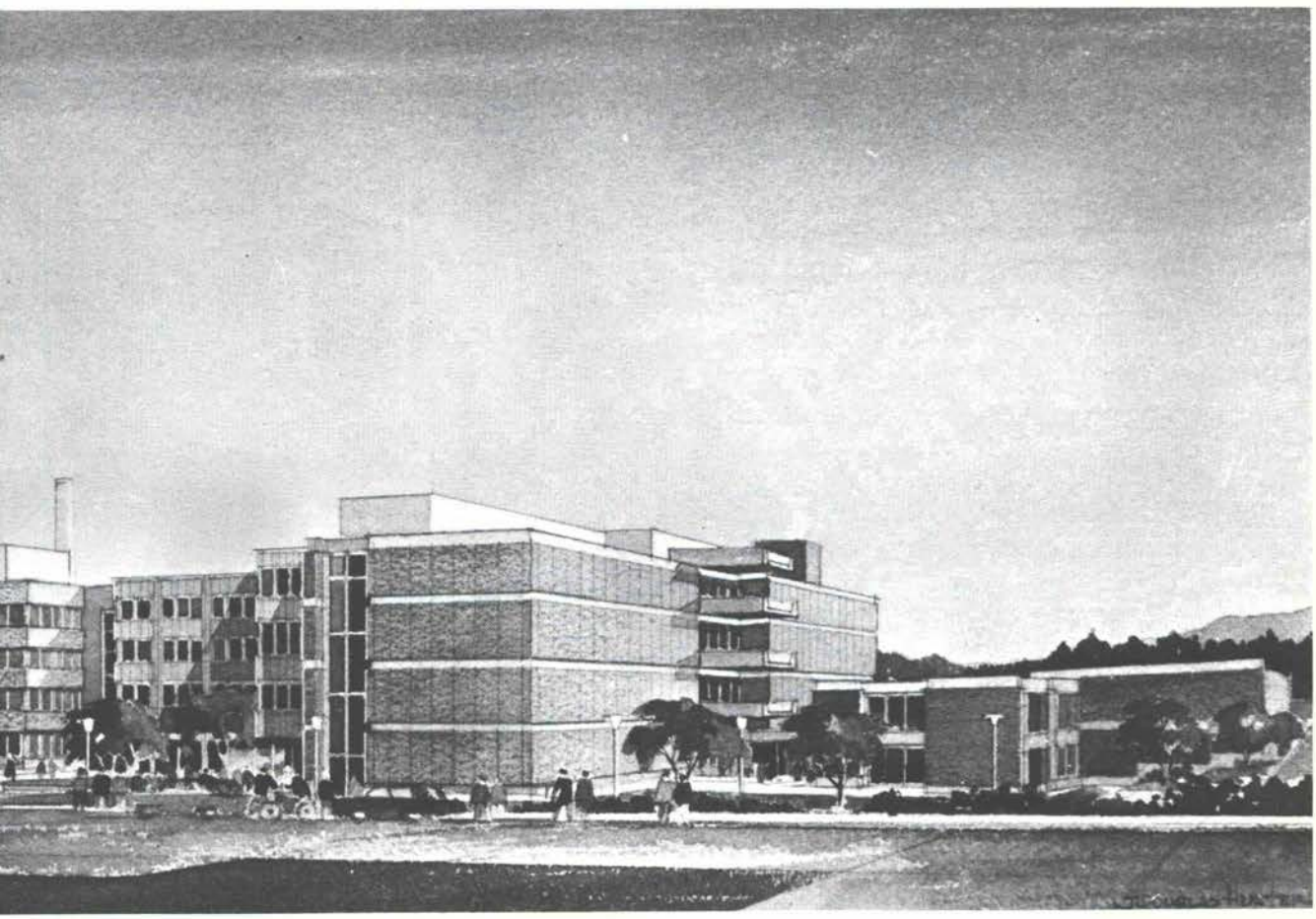






british columbia institute of technology

# ucleus '68



burnaby, b.c.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# dedication

Mr. E.C. Roper

What is the stature of a man? Is it the length of the shadow that is cast? If such be the case, the shadow of Edward C. Roper, B.Sc., M.B.A., holder of the Leonard Medal of the Engineering Institute of Canada, is a long one.

Born in Unity, Saskatchewan, in 1914, Mr. Roper graduated from the University of Alberta in 1936, a B.Sc. in Applied Science (Mining Engineering).

The shadow has fallen across many fields of industry and business. After graduating in 1936, he joined the Brittania Mining and Smelting organization as a miner. Diligent application, integrity, and brilliance deemed this man to become President of Brittania Mining and Smelting in 1952-1954. In 1955, he was transferred to Executive Vice-President and Director of the Howe Sound Company, Fifth Avenue, New York, N.Y. and in 1957, he was appointed to the position of President of the Howe Sound Company.

Mr. Roper left the Howe Sound Company to take his Master of Business Administration, University of British Columbia, graduating in 1960 and immediately joined the staff of the Commerce Faculty. A post held until 1963.

In 1962, he was invited to head the new British Columbia Institute of Technology as the Principal.

That he laid the foundation stones upon which the Institute grew and expanded, in size and reputation, is an indication of how far the shadow was cast, and the stature of the man.

Respectfully, the students and staff of the British Columbia Institute of Technology dedicate this yearbook to Edward Cecil Roper, B.Sc., M.B.A., first Principal of the Institute, who has personified the motto of the Institute, "Quisque Dominus Summi". To each his highest attainment . . . . . .

Staff Open House - June 1965


Presenting scholarships at Commencement

During Staff Open House

# principal

Mr. D.H. Goard
*Principal*

First let me express to all the students and staff of the B.C. Institute of Technology my sincere thanks for the fine and kindly welcome that was given me when I came to B.C.I.T. for my first year as Principal. During this first year I have been more than grateful for the co-operative spirit of the student body and the dedicated effort of the staff.

I am sure that each of the students realizes at the end of this year that he has had an opportunity to meet many fine students and friendly staff at B.C.I.T. Many friendships formed here this year will endure for many years to come.

This was the year that the main building extension was completed and number of students entering first year was nearly doubled. The total enrolment reached 2000 day students and about 1500 evening students. B.C.I.T. had become a substantial element in the system of higher education in the Province.

But what many students will remember will be the parking problems in the early morning, the construction crews finishing classrooms and laboratories during classes and the crowded cafeteria line-ups. Who can forget the "duck walk" across the mud between the parking lot and the main buildings during the wettest October in history?

But the inconveniences and even the mud were signs of progress and growth. A new addition completed, a new library building started and other new additions on the drafting board. B.C.I.T. grew in 1967-68 and the students and staff of this year were all part of that growth and each in his own way contributed to the larger B.C.I.T. to come.

I hope that all students and staff can look back on this year as an exciting and rewarding year of hard work, of growth and of change.

To the graduates, in particular, may they remember these years as good years, may they treasure the friendships formed here and may they enjoy successful and satisfying careers in the years ahead.

Good luck to each and everyone who shared this year at B.C.I.T.

Dean H. Goard

Mr. W.S. Adams
*Vice-Principal*

W.S. ADAMS, Vice-Principal - a man whose life seems to be wrapped up in activity. He is a graduate of U.B.C. where he obtained his Bachelor of Applied Science degree and has specialized as a mining engineer in B.C., Quebec, Newfoundland, and Saudi Arabia. In June, 1963, he arrived at BCIT as the first formally appointed member of the Institute's staff.

He has been and still is active in many professional, civic, and educational organizations. An interesting sidelight to his life outside this institute is that French is the language spoken in his home by his wife, four children, and himself.

Unfortunately, at the end of this school year, he will be leaving this institute and taking up a new position with the Vancouver School Board.

J.T. FIELD, Registrar - before coming to BCIT in January 1964, Mr. Field was a teacher and counsellor at Burnaby South Sr. Sec. School. When one meets this man it becomes quite obvious that his interests lie in his responsibility at this institute - the students - their admission and registration, their problems, their examinations and convocation. His interest in people and particularly people attending this institute is reflected in his concern for the promotion of student opinion and government and in his avid following of our teams, such as the Panthers.

Mr. D.M. Macpherson
*Bursar*

Mr. J.T. Field
*Registrar*

D.M. MacPHERSON, Bursar - the newest member of the Administration. After having served as a chartered accountant with Price-Waterhouse Company, the Canadian Institute of Chartered Accountants, and as chief accountant at Vancouver General Hospital, he was appointed to the position of bursar at BCIT to fill the position left vacant by the resignation of Mr. D. Holden.

He is responsible for all financial matters, budget preparation, and for the recruitment and personnel policies of all clerical, stenographic and service staff at the Institute.

With all this, he still manages to partake in curling, golf, and raising a family of three girls.

# technology & department heads

## civil & structural

Mr. G.Q. Lake
*Department Head*

One of the features about human beings that has provided me with much amusement along with exasperation is their total inability to cope with either complete freedom or with tight restrictions. Our students have provided wonderful forum for observing this phenomena.

We have assigned a kind of project upon occasion that asks for an answer to a problem which is carefully defined as to its extent. The answer required is restricted by cost or time or perhaps by method. There follows the longest most persistent series of objections to the irrationality of the question and the unreasonable nature of the restrictions. Indeed finally the more aggressive students arrive at condemnation of the Institute and complete disdain for the intelligence of the instructor. We have found it quite effective to at least bid them "Get on with it or we will break all of your little bone heads." The assignment is then completed but always with a small contribution slopping over outside the terms of reference. We are happy about this critical faculty and the instinct to rebel and resist.

We often assign projects where an answer, any answer, is to be found by any valid method, traditional or new. The first two hours thereafter are filled with questions of what ways are open, what views are allowed, what standards are permitted. After the sixty-fifth explanation that all ways are open, all views are available (and expected) and that standards DON'T exist we find it quite effective to bid them "Get on with it or we will break all of your little bone heads." The assignment is then completed after the student has drawn his effort well within the set of restrictions he has devised for himself. We are happy at his ability finally to make his own restrictions (i.e. decisions). At each step of the way and to CREATE a FRAMEWORK or form to his problem resolutions.

It may be that this observation may be useful to you all later on because I believe it is intrinsically human. The important trick perhaps is never be 100% restrictive in the dictation of a limited instruction, nor neglect to allow time for creation of limits in an open investigation.

I might say we have always recovered from our exasperations and we thank all our students for a million laughs. We enjoyed you!

# building

Mr. K.B. Davison
*Department Head*

The construction industry has often been accused in the past of a lack of readiness to take advantage of the latest benefits of technology. Whatever the truth of the charge, Building Technology students graduating this spring and moving into the building world will be increasingly aware of an organized effort to speed the increasing industrialization of the construction industry.

Through the efforts of the Department of Industry in Ottawa, architects, engineers, materials manufacturers and contractors are being enabled to co-operate voluntarily in the BEAM program – an investigation intended to result in achieving greater productivity and efficiency in the manufacture of Building Equipment, Accessories and Materials.

To focus energy which might otherwise be dissipated over such a widespread front, the program has various stated objectives, such as:

- Industrialization of the building process.
  The pre-fabrication of complete buildings within a factory is already a common practice in Canada and will show dramatic progress in the near future.

- Adoption of Modular Dimensional Coordination.
  This means that manufacturers will work to standard dimensions which will permit great variety in buildings without resorting to custom design.

- Adoption of uniform building regulations and standards.
  Canada's National Building Code is already a document of world significance.

- Establishment of a Construction Information Service.
  This would be one enormous computerized building materials center with nation wide distribution.

- Establishment of an Award Program to publicize and encourage new ideas.

Any graduate today cannot help but be excited at the prospect of involvement in the rejuvination of Canada's largest industry.

# chemical & metallurgical

Mr. R.C. Mason
*Department Head*

In the chemical process industries, as in most other technical fields, the demand for technically trained personnel is multiplying at an ever increasing rate. Although the enrollment of students in technical training programs leading to positions in the industry is also increasing, this enrollment rate of increase is not at the same high level as the demand rate of increase. As a consequence, for the next several years, there will be many technical positions left unfilled; and many desirable industrial projects left undone. Traditionally, only male students have entered the chemical process technologies; leaving untapped the large resource of female talent. Today, the chemical process industries are awakening to the fact that the female technologist can, and does, perform equally to the male; and, educators and progressive industrial executives now welcome and encourage the entrance of women into this field.

The reluctance of women to enter this field, except in the laboratory situation, is understandable when viewed historically; however, the working conditions, particularly in the technical positions, in modern chemical process plants are such that women will find them acceptable and in many cases attractive. Even in the allied industries, such as foundaries, metal treatment plants, pulp mills, etc., female technologists have a place; and indeed, will find challenging and rewarding careers in them.

As a result the increased entrance and employment of female technologists in the chemical process industries will be one of the significant changes that will take place in these industries over the next ten to fifteen years.

# broadcast communications

Mr. L.S.H. Irvine
*Department Head*

Today, we live in a world that takes for granted, accepts as commonplace, developments which would have been classified as sheer witchcraft by our grandparents, as utter marvels by our parents. The fields of radio and television broadcasting have taken tremendous strides in the past decade. We think nothing of sitting down before a television receiver and watching live broadcasts originating half-way round the globe. We watch a major sporting event as it happens, in full colour. We accept without question the inclusion in a radio newscast of several stories from across a continent, across an ocean, voiced by the very men who made the news.

But what of tomorrow? What more can we expect to become commonplace? In the research laboratories, more wonders are becoming factual, practical things.

In the field of television in the home, the flat picture tube will soon be here. You'll watch colour pictures on a screen separate from the receiver itself, hung on a wall, a screen that when not in use will probably look like a framed mirror. A Canadian development will likely make this possible.

Satellite communications continue to expand, with plans already made for a network of such satellites suspended in space over the globe, to provide constant communications circuits of all kinds to the world below. Around-the-world television networks will be simplicity. Some prophets of this electronic age see the practical use of personal communicator devices that will link the individual with his home or business wherever he may be. Mass communications today is a one-way circuit, the future brings us closer to true mass communications, a step which cannot fail to bring the peoples of this world closer together, closer to understanding each other.

# business

Mr. J.C. McAdam
*Department Head*

Change is not new, society has been changing since time innemorial, but the rate of change occurring in the world today is new. Technological developments which have been made in your lifetime alone have made it possible for you to enjoy a standard of living not available even to kings a few generations ago. Your life expectancy is steadily increasing and your work week is steadily declining. What a delightful era this is to be embarking on a career in the business world!

Continued enjoyment of these benefits however, will require some obligations on your part. In order to cope with the accelerating technological changes of a computer age you will have to continue your education until the end of your working career. Also, you will probably devote considerable attention to extending your knowledge of human behavior, for people – even young people – resist and sometimes rebel against change, and hence behavioral problems in business will become even more important than they are today.

Moreover, electronics and space technologists have shrunk the world in terms of communication and transportation but in so doing, have made it possible to deposit the problems of the world right on your doorstep. In the future, moreso than ever before, you will find that you are your brother's keeper. You will necessarily be concerned not only with the underprivileged and discriminated-against members of society in Canada and the United States but increasingly throughout the entire world.

But, be not dismayed. You have been trained to cope with problems. In fact if business and industry were suddenly to have no problems, there would be no need for managers and your training would have been in vain. Such is certainly not the case.

You will face challenges in your careers unknown to your fathers, but the perseverance which has contributed to your success at B.C.I.T. will enable you to cope with them successfully and to enjoy life in an age of unprecedented abundance.

# forest technologies

Mr. V. Heath
*Department Head*

The relationship of all living things has urgent meaning for all of us, but more particularly for young people entering the world of adult responsibility. This subject, so old, so vast, and so continually new, requires the attention of persons of quality. These persons recognize something beyond success: it is excellence. It is people of excellence who build greatly and lastingly and who are interested in surveying the present state of affairs and our natural environment.

Among the things needed by persons in search of excellence and in preserving our way of life are these: a wide view, curiosity, courage, self discipline, enthusiasm and energy. They realize that life is lived by batting averages, not by perfect scores. People live by making plans and putting forth efforts that are, as far as they can see, in line with the results they want. Then they revise their plans and improve their performance as experience dictates. Nowhere are these practices more realistic then in the preservation and development of our natural resources. If we wish to maintain our present way of life, we must come to terms with what is left of natural forest, soil, water and wildlife, and it will be on terms laid down by nature, not imposed by us. Any wrong which nature may for centuries commit, she has centuries to repair, but we, whose days are short, must walk warily lest we become the victims of the wasteland we make.

It is recognized that, amongst the greatest of our natural resources, "the wealth of a nation consists more than in anything else, in the number of superior men that it harbours" (William James - 1906, address at Stanford University). The obligation upon Canada is to honour the qualities in men and women which are most necessary to the continued vitality of our country.

Every person of quality gives something of advantage to his country, but before the country can appreciate these gifts it must learn this: a society only produces great men in those fields in which it understands greatness.

The best wish we give to graduates is a capacity for continued growth and the realization that "To survive, all men must hold hands".

# chemistry department

Mr. C. Barnetson
*Department Head*

One of the common problems in the chemical and related industries is the accurate analysis of natural materials or final products. In the former case the final analysis directly influences economic bargaining, while in the latter it is a parameter in measuring the quality of the final product.

Although "classical" wet methods of analysis are still in common use, there is an ever increasing tendancy to apply instrumental analytical methods to the field of quality control. By using chemical instrumentation an analysis may be more specific, it may be carried out in a shorter time period, the results may be more accurate and precise and there should be an ultimate decrease in costs. It is for these reasons that instruments such as absorption and emission spectrophotometers, emission spectrographs, X-ray equipment, gas chromatographs, mass spectrometers, etc., are now commonly found in industrial, medical and research laboratories. As a further development, the process, in some cases, has been semi-automated by the use of multi-channel systems connected directly to digital computers.

Because of this trend towards chemical instrumentation, it no longer seems adequate to train laboratory personnel only in physical chemical principles of instrumental analysis. In order that each instrumental parameter be used to advantage, it is necessary that the operator understands the functions and operation of the same. Thus it becomes necessary to introduce potential laboratory personnel to the principles of chemical instrumentation, a marriage of chemistry, mathematics, physics, and electronics. This philosophy is followed by the majority of institutes of technology in Canada.

# natural gas & petroleum

Mr. I.M. Anderson
*Department Head*

The most interesting question for anyone entering or already employed in a specialized field of technology is; what does tomorrow look like?, what lies ahead for the individual and the industry?

The Natural Gas and Petroleum industry has, as a raw material, a fossil fuel which is obviously not inexhaustable but which to date, has been found at a more rapid rate than it has been used. This tends to affect the utilization of the resources for purposes which may not be the most efficient, but economic pressures have forced the industry, in severe competition for markets, towards a standard of efficiency much higher than most other industrial processes. A measure of this is that a gallon of gasoline today (ex taxes) is cheaper than thirty years ago and in fact costs less than a gallon of distilled water. This level of efficiency has been attained by the use of automatic equipment, and now automation, at a higher level than most other industries. The writing on the wall is nowhere more apparent. Unskilled labour is obsolescent and skills are in greater and greater demand. To run an automated plant, on the job training is insufficient and to understand the process a great depth of academic background is required. There is no place for trial and error, a rigorous knowledge is required.

To date the industry has been fuel oriented but already it can be seen that this is not the most efficient use of the natural resource. It is doubtful if air pollution, caused by combustion, can be allowed to increase at its present rate and it is improbable that the automobile as we know it will exist by the year 2000. At that time the value of petroleum will switch to other uses. At present it is the largest source of plastics and the ratio between fuel products and petrochemicals is rising. In addition work at present underway indicates that protein for human consumption can be made from petroleum and it is not impossible that this source may supply eventually the bulk of the vastly enlarged population of our world grown beyond the capacity to be fed by agriculture alone.

# food

Mr. R.B. Hyde
*Department Head*

It is rather difficult for the average Canadian to understand the plight of people in developing countries, because we have never been desperately hungry. Yet, almost half of the world's people suffer from hunger and malnutrition while only about one-sixth are what we would consider as well fed. The feeding problem is compounded by an alarming rate of increase in world population.

The United Nations, through its Food and Agriculture Organization (FAO) is conducting a continuing campaign to alleviate hunger and malnutrition in the world. In 1959 the member nations of the FAO launched the Freedom from Hunger Campaign, the basis of which is the training of people in developing countries to make better use of their human and material resources.

An example of Canadian activity within the Freedom from Hunger Campaign is the Canada-Mysore Project which has resulted in the establishment of an International Training Center in Food Technology located at Mysore in India. Donations from private citizens and industry in Canada provides the staff and teaching equipment for the Training Center which officially opened its doors in 1965.

The Canada-Mysore Project is attacking at the source one of the major problems of food shortage in Southeast Asia: the loss, due to spoilage, of about 30 per cent of the food produced. This spoilage loss could be reduced by utilizing modern techniques of food preservation and distribution. The Mysore Center trains people to use these modern techniques. Thus, Food Technology is contributing to the well-being of mankind by helping to relieve the human suffering caused by one of the world's greatest problems; hunger.

# health

Mr. S.T. Richards
*Department Head*

The students who commenced training in the Health Technology programme in September 1967, Canada's Centennial Year, have been and will continue to be pathfinders in every sense of the word. Each day of training has created a new first, surely an appropriate way to begin a new century of progress! In June 1969 these students will become the first medically oriented graduates to receive the B.C.I.T. Diploma of Technology.

The new programme, so far as can be determined, is unique in Canada or elsewhere. Students of seven distinct but medically related training options share common training experiences and intermingle for purposes of study. (Observing that this is a co-educational institution I cannot vouch that there are not other forms of fraternization!) This team approach contrasts rather sharply with the more traditional individual group method of training still widely extent in the health field. It is to be hoped that the "team" will continue to function after graduation day; that the role of the fellow worker in patient care teams and co-ordinated health services will be better understood and appreciated.

Our pathfinders blaze other and equally important trails. New career fields have opened up – Health Information Technology, Biomedical Technology, Medical Isotope Technology speak of the rapid advances in medical science. Radically different and new approaches are taken within the programme to train Nursing, Medical Laboratory, Medical Radiography and Public Health technologists. Rising standards of qualification and the demands which will be made upon these members of the health field have made this so.

The first year of training with its many firsts has been a difficult one. Rest assured that staff members have found it equally taxing. Fortunately the added challenges and hazards of being a pathfinder have their own special rewards. I feel sure that the spirit and degree of willingness exemplified this past year will carry the team on to graduation and success.

# physics department

Mr. W. Thumm
*Department Head*

Benjamin Franklin (1706-90) who, aside from flying a kite in a thunderstorm, produced some very significant thoughts on fundamental basic science, was once asked by a critic with a utilitarian bent, "What use is this discovery?" Franklin replied, "What is the use of the infant?"

Surprising as it may seem in today's technological age, such questions are still being posed. The answer is still the same. It is the understanding of the basic physical laws which appear to govern natural phenomena that leads to the multitude of practical advances in most fields of engineering, medicine, and business.

As a relatively recent example of this contention, I would cite the laser. Two years ago students at BCIT had the privilege of witnessing a demonstration lecture on the laser by Dr. Boris Stoicheff, with whom Dr. C.H. Townes publicly shared his Nobel prize money because of Stoicheff's contribution in the basic physics leading to the laser. Today the laser has become part of the world's technology, being employed in such widely different ways as fixing the position of a dredge working on the foundations of a bridge under construction, to "welding" retinas in the medical field of ophthalmology.

From the wheel to a rocket on Venus, the technological developments owe their origin to the understanding of basic principle of natural phenomena, to physics. Indeed, the NUCLEUS of technology is physics. And it is an appreciation of, and understanding of, what forms the nucleus of one's pursuit – be it in industry or medicine – that distinguishes the technologist from the "knob twirler" whose future is fenced in by the ever-changing aspects of technology.

# mathematics department

Mr. W.S. Sims
*Department Head*

"Those of us who work with automatic digitial computers suffer from a certain megalomania. We consider that we are not merely working in an area of great importance; we insist that we are instruments of a revolution, the Computer Revolution. We consider that the revolution is destined to exceed the Industrial Revolution in its impact, and that, moreover, it is coming about a whole lot faster."

So propheses Dr. G.E. Forsythe, Director of the Computer Science Division, Department of Mathematics, Stanford University, and there is ample evidence that professional people in the fields of technology and business are looking more and more to computer systems to aid them in their increasingly complex affairs.

And what of the technologist? Should he or she enter this complicated world of work knowing the computer only as a word? We in the Mathematics Department of B.C.I.T. think not, and in an effort to produce well-informed technologists, we have, during the past session, introduced a new style of mathematics course into many of the Institute's programmes.

Within this course we have integrated the normal technical mathematics topics of further algebra, trigonometry, calculus, and statistics with problem solving procedures which make use of the computer as a tool. There is no attempt to give instruction on the internal workings of the machine or to train the student as a computer programmer. In the preparation of mathematical problems for solution by computer a certain logic is required and our emphasis is on the teaching of the basic steps of this logic as a mathematical discipline. Concomitantly there is an appreciation of the potentialities of computing systems in the large-scale problem solving schemes of commerce and industry.

As technology has advanced, the associated mathematical techniques have assumed new forms and there is need for continual review of the structure of technical mathematics programmes to ensure that they reflect the latest trends. It is our constant endeavour at B.C.I.T. to steer the mathematics curriculum along a course which will continue to offer the most useful and up-to-date training for technologists.

# mining

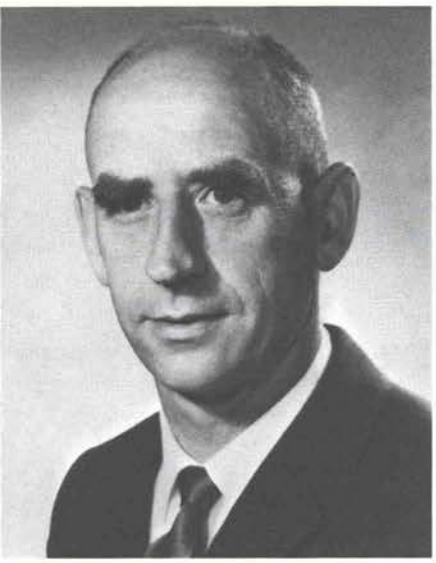
Mr. A.H. Manifold
*Department Head*

Recent months in British Columbia marked the initial production from a number of new mines such as Wester Mines on Vancouver Island, Granisle Copper at Babine Lake, Wesfrob Mines on Queen Charlotte Islands and Utica Mines near the southern Okanagan. Previous to these openings were those of Bass Mountain north-east of 100 Mile House, Endako Mines west of Prince George and Bethlehem Copper and Craigmont Mines in the Highland Valley area. Other large developments due for production are B.C. Molybdenum and Granduc Mines in the Alice Arm-Portland Canal area.

The advent of so many new mines is ample evidence of the tremendous activity in all phases of the mining industry for behind each new mine there is also a long story of exploration and development. While there is still a place for small high-grade mines it is the large open-pit operations which have attracted so much attention. Huge equipment and advanced technology have so reduced cost that many mineral deposits long considered too low grade may now be profitably mined.

The unprecedented increase in new producers and the accelerated never-ending search for new ore deposits assure many present and future opportunities in all fields of mining.

# surveying



Mr. D.R. Mason
*Department Head*

The future of graduate students in Surveying is very rosy. The industry is extremely short of trained personnel and the entire graduating class could be absorbed tenfold and still there would be shortages of competent technicians and technologists.

Modern technology has brought inventions and refinements which enable new concepts of surveying to be introduced which make the older conventional methods almost obsolete.

Today, large areas of the earth's surface can be measured and mapped quickly and accurately by the application of aerial photography to surveying. This field of surveying is called Photogammetry and is being used increasingly in industry. At B.C.I.T. a new Photogrammetric option will commence in September 1968 and already the facilities and equipment are being installed.

Electronics is being used increasingly in the surveying industry and B.C.I.T. students train on the most modern equipment, which can measure large distances of the order of twenty miles in fifteen minutes, with an expected accuracy of three parts per million.

No mention of facilities at B.C.I.T. would be complete without reference to the new Planetarium which has been installed and is now in use. Students trained with this equipment are easily able to comprehend the basic principles of astronomy and are able to achieve standards which would present great difficulty without the aid of their realistic simulator.

Graduates of the Survey Technology have the added advantage of being able to become British Columbia Land Surveyors following a period of articles and the writing of a final examination, and our first graduates will be receiving their commissions in the near future.

# english department

Mr. P.E.F. Coleman
*Department Head*

First, let me thank the editor of Nucleus '68 for this opportunity. Since space is limited, I shall concentrate on one portion of the English program, the theme of 'future shock'.

"Future shock is dizzying disorientation brought on by the premature arrival of the future. It may well be the most important disease of tomorrow. Yet, unless intelligent steps are taken to combat it, most of the human beings alive today will find themselves increasingly disoriented and, incompetent to deal rationally with their environment". Future shock is caused by the scope and rapidity of the changes taking place in our world. Information is doubling every ten years. Man's fundamental biological qualities are due to change: the human body in the future will often consist of a mixture of organic and machine components. The concepts of work and leisure, around which so many people structure their lives, are due to change: people will need to train and retrain several times in the course of a career, and there will not be enough work to go around. The work week has been halved since 1900, and may be halved again by 2000. Such changes require vast adjustments in each individual.

Yet even highly educated people today assume that society is static. The result is unreadiness to adjust to the future when it arrives, or "future shock". The remedy lies in creating a stronger future consciousness in the general public by a concentrated focus on the social and personal implications of the future. Just as we offer History 100, we must offer Future 100. Such a course must include science fiction, regarded not as literature but as the sociology of the future. The inspired speculations of Huxley or a Verne have great value as inoculations against future shock. Future 100 may well be the required course in education in the future.

# electrical & electronics

Mr. N.E. McClary
*Department Head*

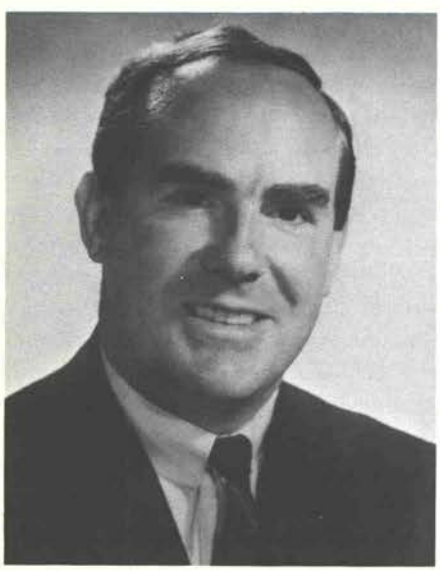
"The Challenge of Tomorrow" is a quotation from a movie made to expose students to the opportunities which the future would offer in the electrical and electronics field. The film was produced in the early 1950's. In it a number of predictions were made, some of which must have seemed a little far-fetched. In just about fifteen years all of those predictions have become reality. The challenge of tomorrow becomes the history of yesterday very quickly where electrical and electronics matters are concerned. This explains the feeling of excitement and living with the future that is the common experience of those who work in electricity or electronics.

In what will the electrical and electronic technologist be involved in the immediate future? Scanning the recent technical literature leaves the impression that nothing absolutely new is to be expected. Of course we shall see lots of new versions and applications of existing things in the computer field, methods of generating electrical energy solid-state devices. But by "absolutely new" is meant something akin to the transistor which burst upon the world in 1948 and gave rise to an enormous technological upheaval which has affected the lives of all people.

Most electrical and electronic technologists will not be disintegrating their fellow men with laser beams. They will contribute to the well-being of mankind by providing equipment and services vital to progress in an age controlled by technology. Their work will sometimes appear to be mundane but it will always be important.

The role of the electrical and electronics technologist is to shape the future, meeting the challenge of all of the tomorrows.

# hotel, motel & restaurant management



Mr. M.M. Coltman
*Department Head*

The hospitality industry has come a long way in a short time. About the only reminder you will find of the "good old days" in today's establishments is the adoption of a pioneer decoration motif; tastes and requirements have changed drastically – so have the lodgings, the food, and the prices!!

In the old days guests were huddled into long dormitory-like rooms, often fought running battles with lice, washed at a trough outside, ate help-yourself fashion at long tables heaped high with food – and paid for all this $1.00 per night. Today a guest is likely to pack and leave in a huff if the tap in his private bathroom develops a drip.

In 1967, Canada's tourist industry earned about $1 billion in foreign currency (to this must be added its earnings from domestic travel). This $1 billion is double the amount earned 5 years ago – and puts tourism in third position (behind wheat and forest products) as a foreign currency earner.

The industry has been able to cope with this explosion by adopting new attitudes. In the past the hospitality industry leaders were adverse to introducing the revolutionary changes and developments in management methods which had proved so successful in other lines of business. A recent change in attitude, started by the chain organizations, has created more efficient businesses – to the benefit of both management and the public. These management techniques are now also being supplemented by trained supervisory and management personnel such as those graduating from B.C.I.T.

All this, plus the introduction of electronic devices (such as data processing equipment to handle reservations), does not mean that "hosting" will be forgotten. There will be a greater emphasis on the business aspects of hospitality management, but the personal touch will still be required. In our industry machines can lighten the load, but they cannot replace a personality.

# instrumentation

Mr. J.O. Hulbert
*Department Head*

The digital computer has been applied to routine business procedures with astonishing success! The glow of success has inspired some believers to claim that this machine will eventually look after the operation of all plants everywhere. One outcome of this is D.D.C. – Direct Digital Control of process plants in which ALL control equipment is operated by direct command from the computer. However the digital computer, though fast and accurate, is rather simple. It cannot cope with complex problems unless many simple step by step instructions are given. DDC today has a small cloud in place of where the halo used to be.

Enter the analog computer! A rather modest fellow whose words are few but very much to the point. Without difficulty he can give you an answer to the most complex problem – but unfortunately there is a slight impedement in his speech and he cannot annunciate down to the last cent. This is unfortunate because the selection committee includes an auditor who has the power of veto, so he is bucking the establishment from the start. But even the most staid must bend in the face of popular demand and it looks as though the analog computer is to be given chance to prove itself on centre stage.

If the pendulum were to swing too far back in this direction, this too would be a shame. The best results will undoubtedly result from an equal, though different, role for both digital and analog machines.

The digital computer with its large memory is ideally suited to production control. This amounts to the selection of speeds and flows to give optimum economic operation of the whole plant. Many digital computers are already being used for this purpose with good success – and it is too bad that the term process control has been applied to this technique. Process control, the maintenance of stable pressures, temperatures, levels etc. throughout the plant requires facility with complex differential equations. It is undoubtedly more suited to the analog computer.

By the use of a computer with combined digital and analog components, known as a hybrid computer, we can get the best from both worlds. Economic operation (production control) together with stable operation (process control). And what is most important, this can be achieved at a cost which is less than using either type of control alone.

# mechanical

Mr. D.K. Bannerman
*Department Head*

# director of student affairs

Mr. B.E. Frisby
*Director of Student Affairs*

As Nucleus '68 so clearly shows, expansion has dominated every phase of Institute life during the past year. In September, we expanded into new facilities with additional staff and an increased student enrolment. From this increased enrolment has come a host of new students whose interests, abilities, and enthusiasm, have demanded expansion and change in all facets of student life. Not only has expansion brought additional participants, but also new, vital leaders willing to add their talents to the ranks of those guiding student policy. Consequently, student activities, based upon a format established by earlier student governments, have been launched upon a course for which all students may be proud and from which we will never look back.

A great deal of the success, with which we adapted to our multi-phased expansion, may be attributed to our student executive, which has, this year accepted complete responsibility for all development and co-ordination of student activities. This executives' dedication was obvious through its continued awareness of student requirements, and its efforts towards improved student-administration communication.

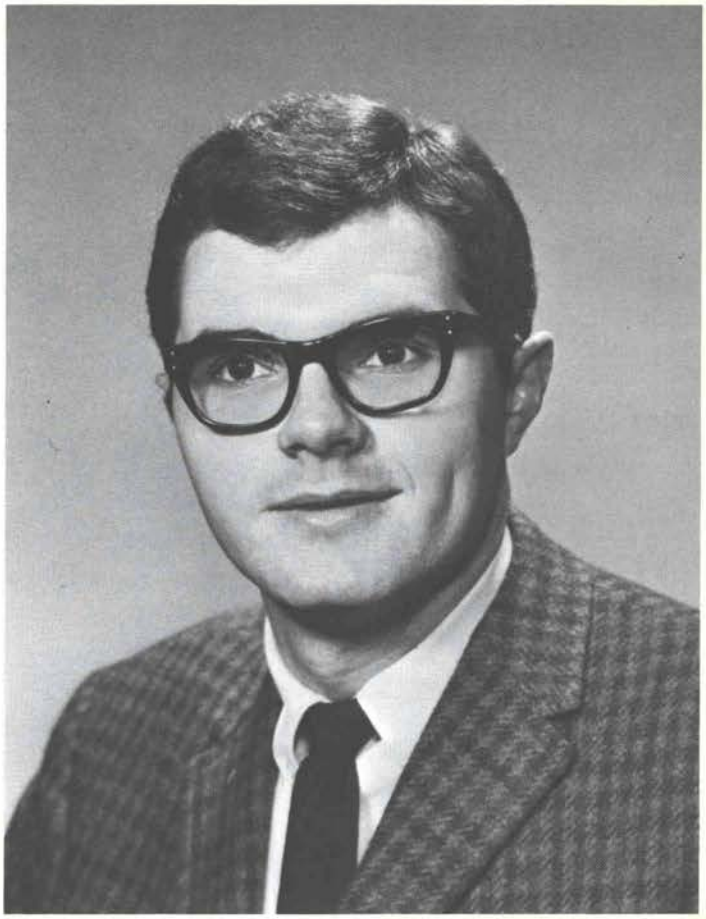
Ultimately however, the whole student body was responsible for the success which expansion brought to B.C.I.T. student life. Considering the obstacles encountered in organizing student activities at the Institute, all student leaders are to be congratulated on their imagination and initiative, and the student body on its excellent adaptation, co-operation, support and enthusiasm.

Sincere congratulations to Bob Jens and his colleagues for their efforts in producing this fine record of a year's expansion and progress at B.C.I.T.

Graduates, you have grown with the Institute's expansion. Congratulations on your past achievements and sincere best wishes for your future.

B. E. Frisby

# student association president



L. Douglas Hall
*B.C.I.T.S.A. President*

It is not to be said that two years of intensive training in fractionalized or isolated fields has not given us all something in common. We have all learned to work hard, possibly harder than we ever anticipated. We have all developed an awareness of the challenge that industry has to offer. Above all, we have discovered the huge gap between the Vocational level and the University level.

Our well equipped, attractive institution, the administrators, and the staff have given each member of the graduating class an opportunity to help fill this immense gap. The possibilities for each of us are infinite.

May our capacity for learning never fail us. In two short years, we have gained only an inkling into the technological pace which has been accelerating as an exponential since the Scientific Revolution, 300 years ago. New trails are being blazed with increasing regularity and our duty as technologists is immediate familiarization.

B.C.I.T. is not merely 3700 Willingdon Avenue. For most, it has been a goldmine for new friends and social activity. For some, it has provided the satisfaction that comes with competitive athletics. But for all of us, it has been an unforgettable experience.

Carry the "Torch of B.C.I.T." You graduates have earned every square centimeter of your diploma and good luck to you all in your chosen careers.

A decade or two from now, I foresee a class reunion at which only millionaires – the B.C.I.T. grads of '68, will be present.

Thank you for allowing me to serve you.

L. Douglas Hall

# student association council

STUDENT COUNCIL EXECUTIVE: Left to Right: Marg McClary, Mietta Nijdam, Brian Cassidy, Brian McLellan, Doug Hall, Terry Wilshire, Denny Dickson, and Janet Nystedt.

The Student Administrative Council is the student government of B.C.I.T. and is comprised of an eight member Executive and of forty-three representatives of eighteen technologies.

The members of the 1967-68 Executive were:

President: Mr. Doug Hall

Vice-President: Mr. Terry Wilshire (replaced Mr. Tom McBeath – October 23, 1967)

Secretary: Miss Janet Nystedt (replaced Miss Mavis Wilkinson – February 5, 1968)

Treasurer: Mr. Denny Dickson

Clubs Chairman: Miss Mietta Nijdam

Publications Chairman: Mr. Brian Cassidy

Social Chairman: Miss Marg McClary (replaced Mr. Bernie Eisenstein – October 16, 1967)

Sports Chairman: Mr. Brian McLellan

On behalf of the Student Association which encompasses the entire student body, the Council endeavors to promote, establish, and control a balanced program of extracurricular and co-curricular activities.

In keeping with this object, the Council:

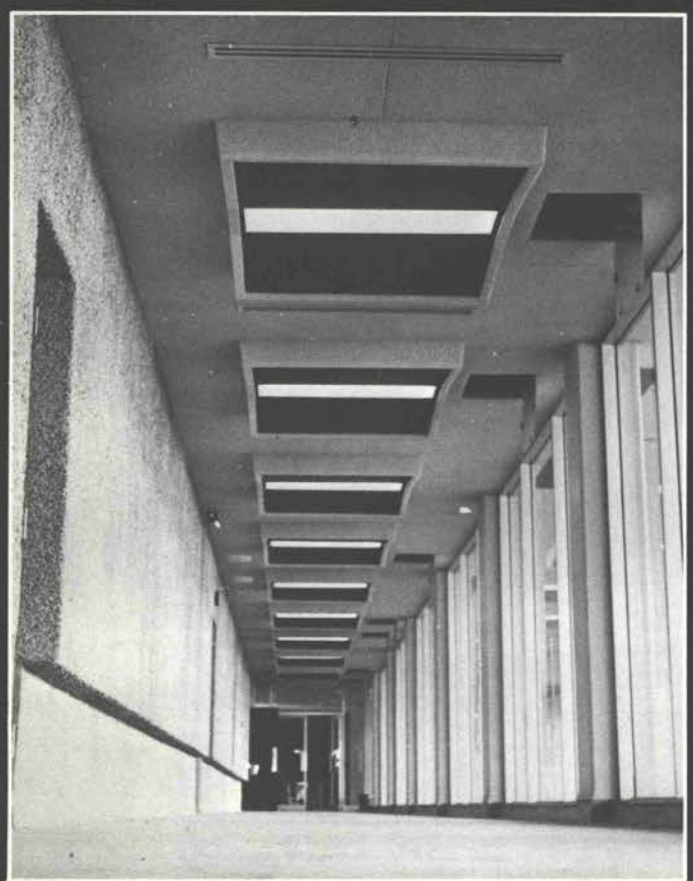
1. established a program of Student Administration Luncheons where the Executive met with Mssrs. Goard, Field, and Frisby to discuss problems of both the student body and administration.
2. A Student Graduation Committe was set up to organize the Grad Dinner-Dance at the Hotel Vancouver and soon branched into activities including regular Thursday evening movies and a Grad Fashion Show. It is hoped that this committee will be the forerunner of an elected Grad Council.
3. Scheduled and co-ordinated dances, skating parties and special events such as guest speakers and noon hour backrubs.
4. directed a major portion of its efforts towards improving the communications problems between the Council and the clubs and technologies. Included in this was the purchase of a mailbox unit with sixty slots for technologies and

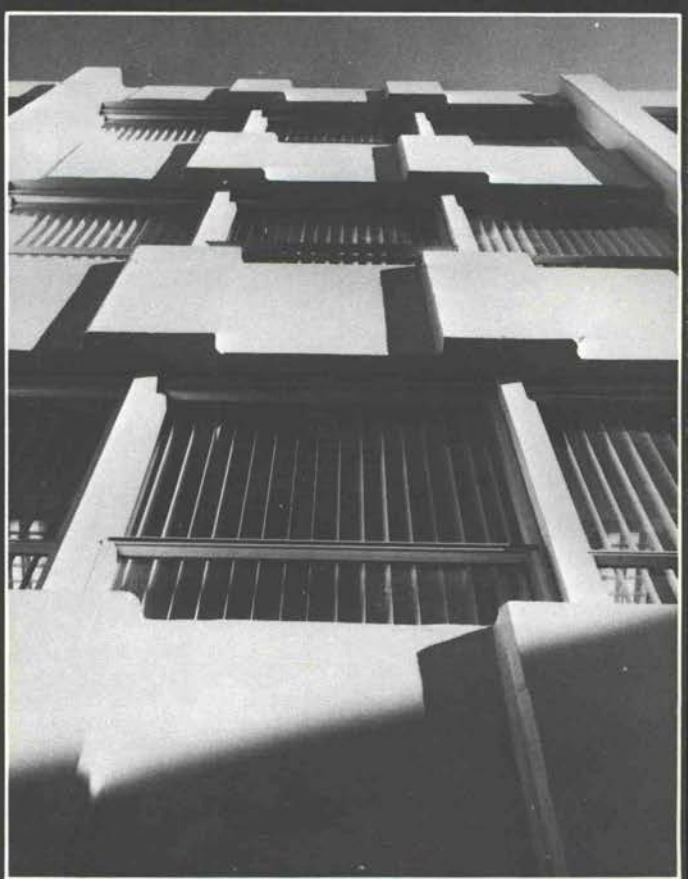
clubs, as well as a major portion of the budget directed toward the "Link" and "Nucleus".

5. participated in the B.C. high school visitation sponsored by the B.C. Assembly of Students; aided the Canadian University Services Overseas (C.U.S.O.) in contacting B.C.I.T. students interested in jobs abroad; participated in the organization of a B.C.I.T. Athletic Council which now controls all extramural athletics; and successfully acted upon student requests for a cement sidewalk from the South parking lot, for vending machines and pay phones in the new wing, etc.
6. The Constitution of the Student Association was also amended, passed through Council and submitted to Victoria for incorporation into the Societies Act of B.C.
7. Five clubs were added to bring the Institute total to eight active clubs on campus.

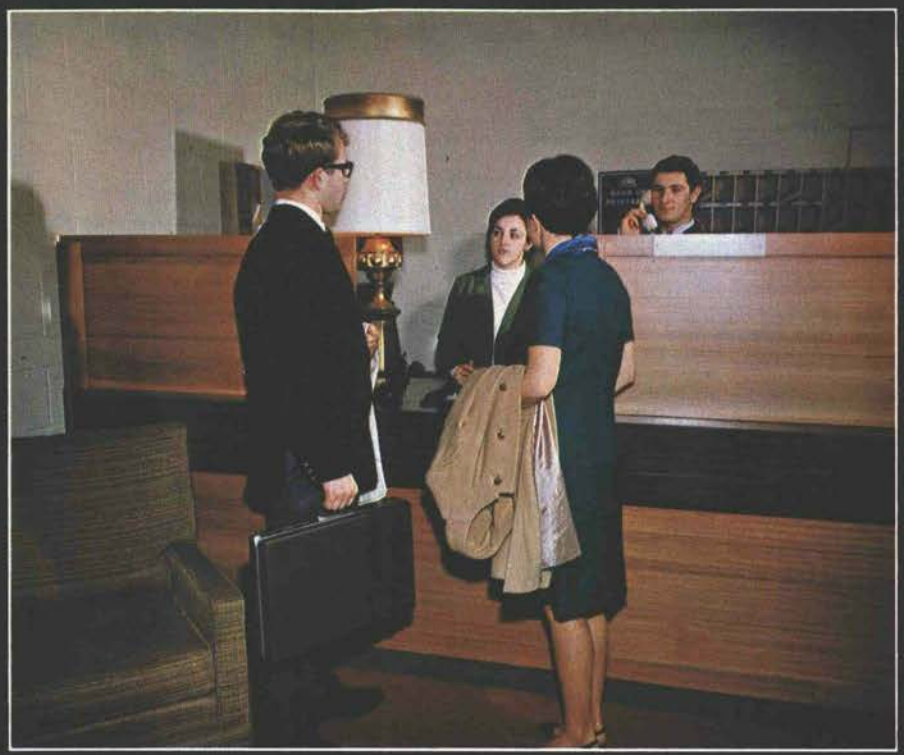
In all, 1967-68 was the most successful and progressive year of the B.C.I.T. Student Administrative Council. Much good work from past years was carried on, many precedents were set, and a great deal of foundation was laid for the same kind of effort and accomplishment by next year's student government.

# in & about



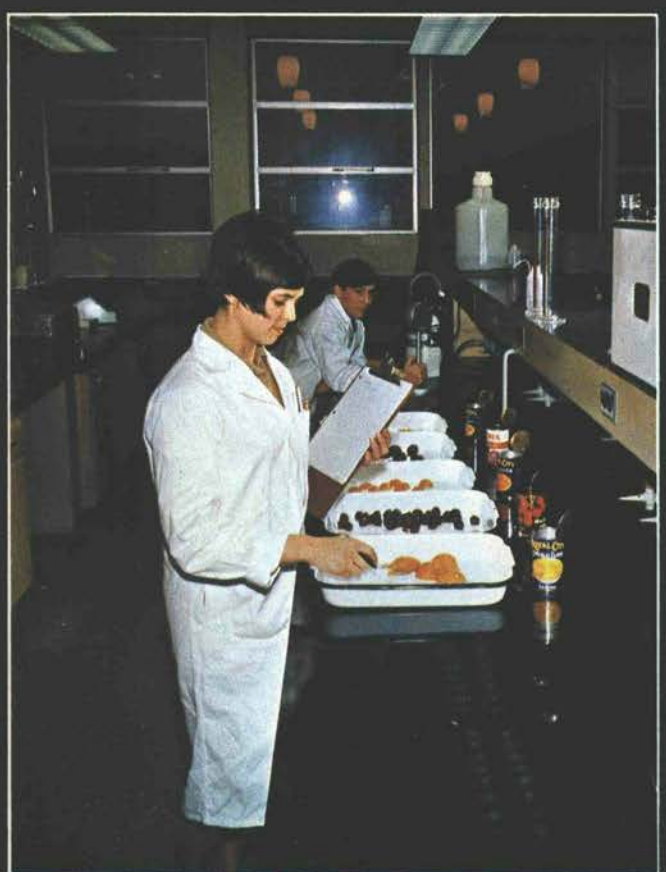


# in & about

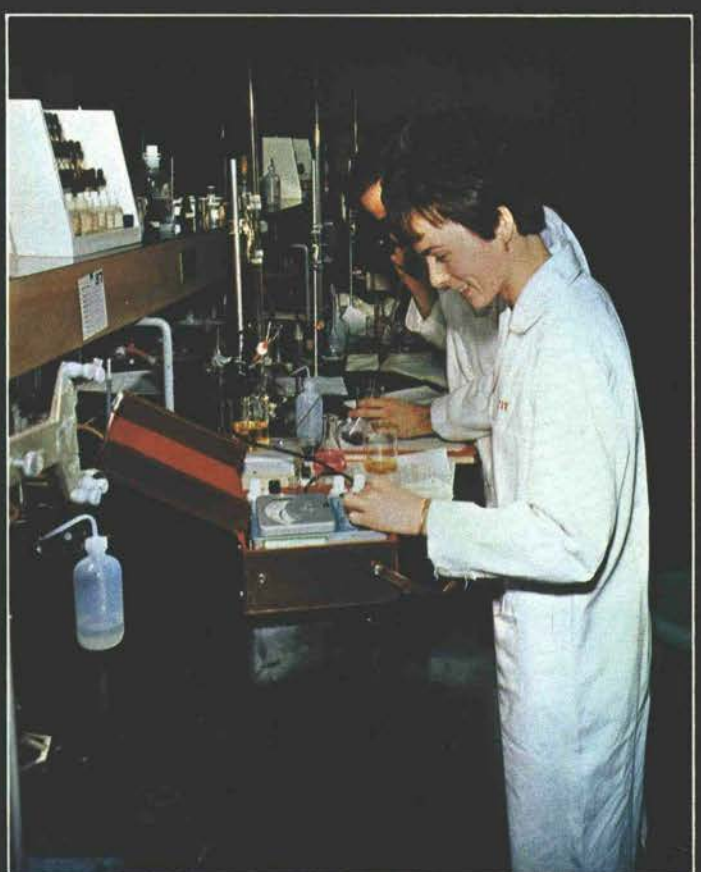


Hotel-Motel
Registration Desk

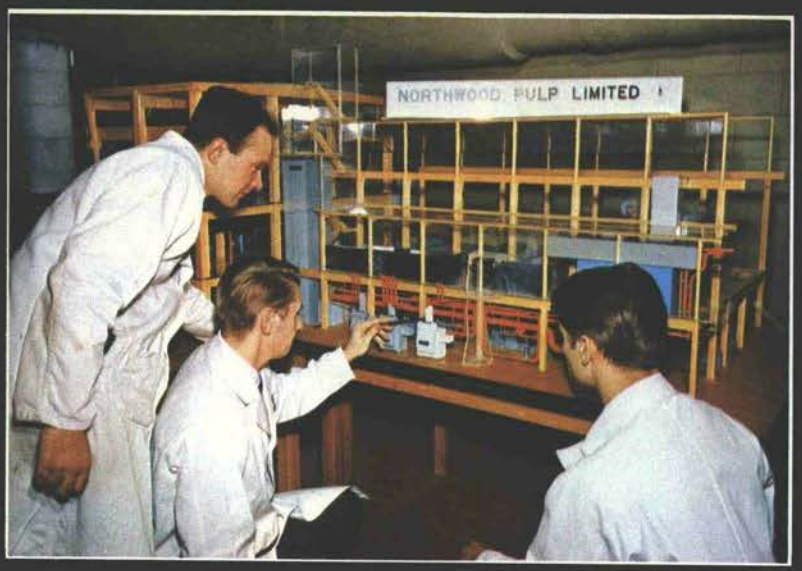
Food Processing



Chemistry

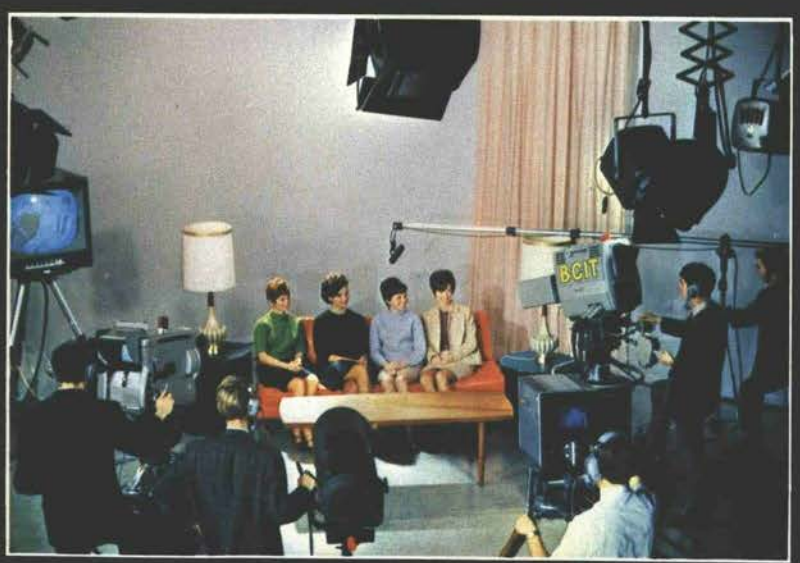


# in & about



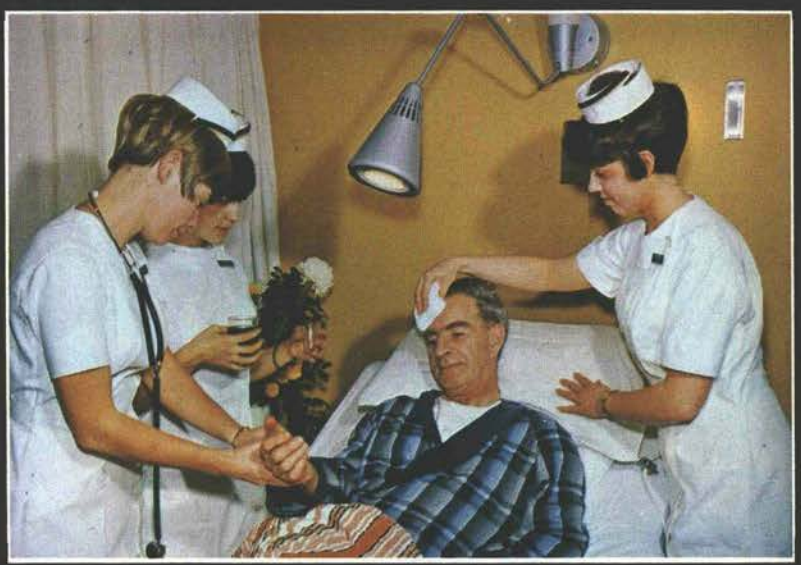

Forest Products students examining pulp mill model

Hotel-Motel Bar




T.V. Broadcasting studio

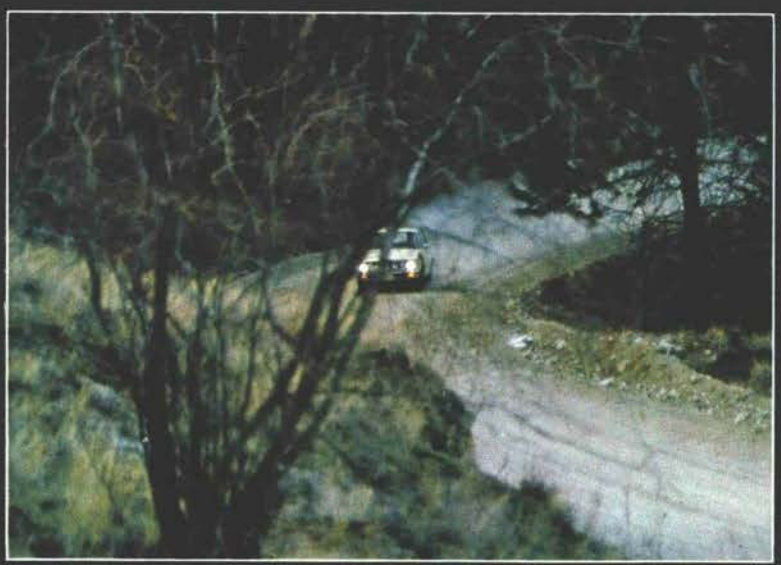
Chemistry



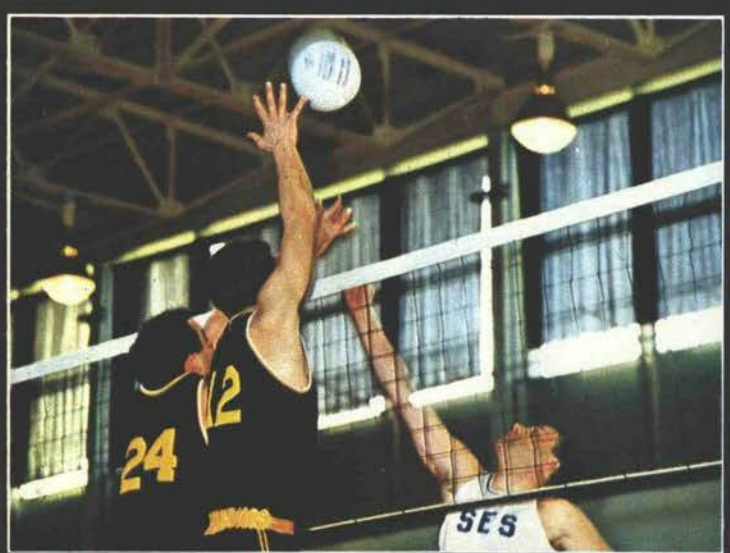
B.C.I.T. Nursing students at
Lions Gate Hospital

Forest Products
Pulp Lab

Rugby



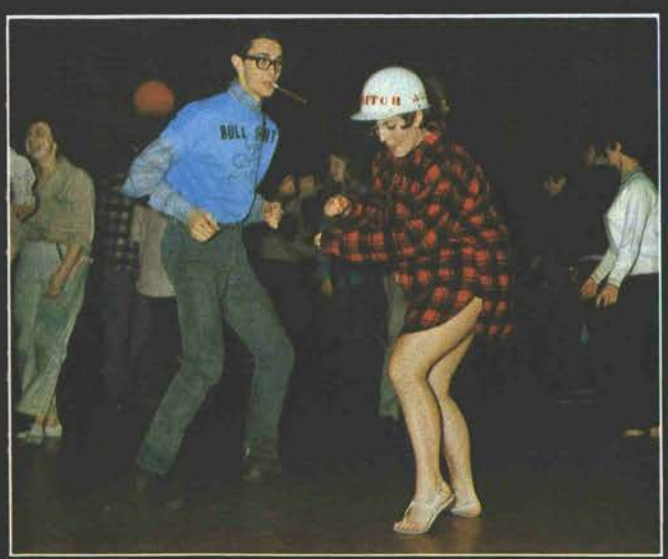
B.C.I.T.S.C.C. Rally




Volleyball

Hardtimes Dance

Psychedelic Pumpkin



Hardtimes Dance

# dances

Hardtimes Dance


Campus Queen Dance

Psychedelic Pumpkin

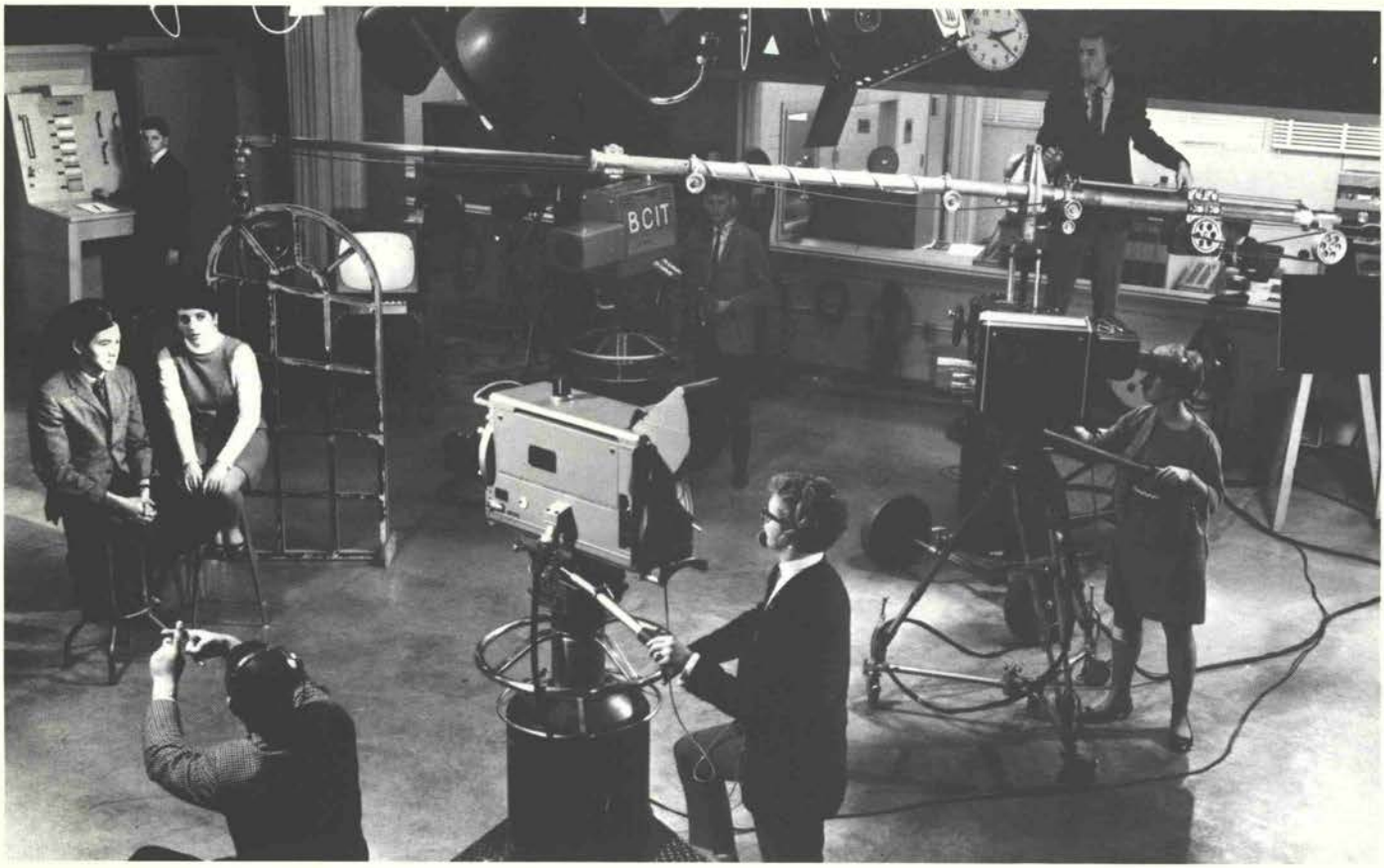
# campus queen & bmoc

Marg McClary, Campus Queen; Marwyn Thomas, BMOC

Days, weeks, months, and years
Blend into that final moment.

# graduates '68

# broadcast communications




Television production

Equipment maintenance

The need for educational facilities in broadcast communications has long been recognized by the industry in Canada, and with broadcast communications expanding every year the demand for trained personnel continues to rise.

To give training with a strong emphasis on the practical aspects, a complete radio and television station was established in the Institute. The Broadcast Communications programme is a realistic one, offering authentic on-the-job training and experience within the Institute, with students working in actual radio and television production for months before they go with industry.

The programme offers two distinct two-year options - Production and Technical. Each includes both television and radio.

Students in the Production Option receive training in all non-technical areas of broadcasting - announcing, writing, news operations, recording, and radio and television production, and thorough knowledge of the use and operation of all broadcasting equipment. Technical option students are given a complete electronics programme, coupled with extensive practical training in the maintenance and repair of all radio and television broadcast equipment.

# broadcast communications

O.S. Buss
*New Westminster, B.C.*

B.G. Charman
*Dawson Creek, B.C.*

J.R. Cranswick
*Burnaby, B.C.*

P.K. Crowder
*North Vancouver, B.C.*

F.M. Hinds
*Vancouver, B.C.*

W.J. Kay
*Penticton, B.C.*

L.M. LeClair
*Coquitlam, B.C.*

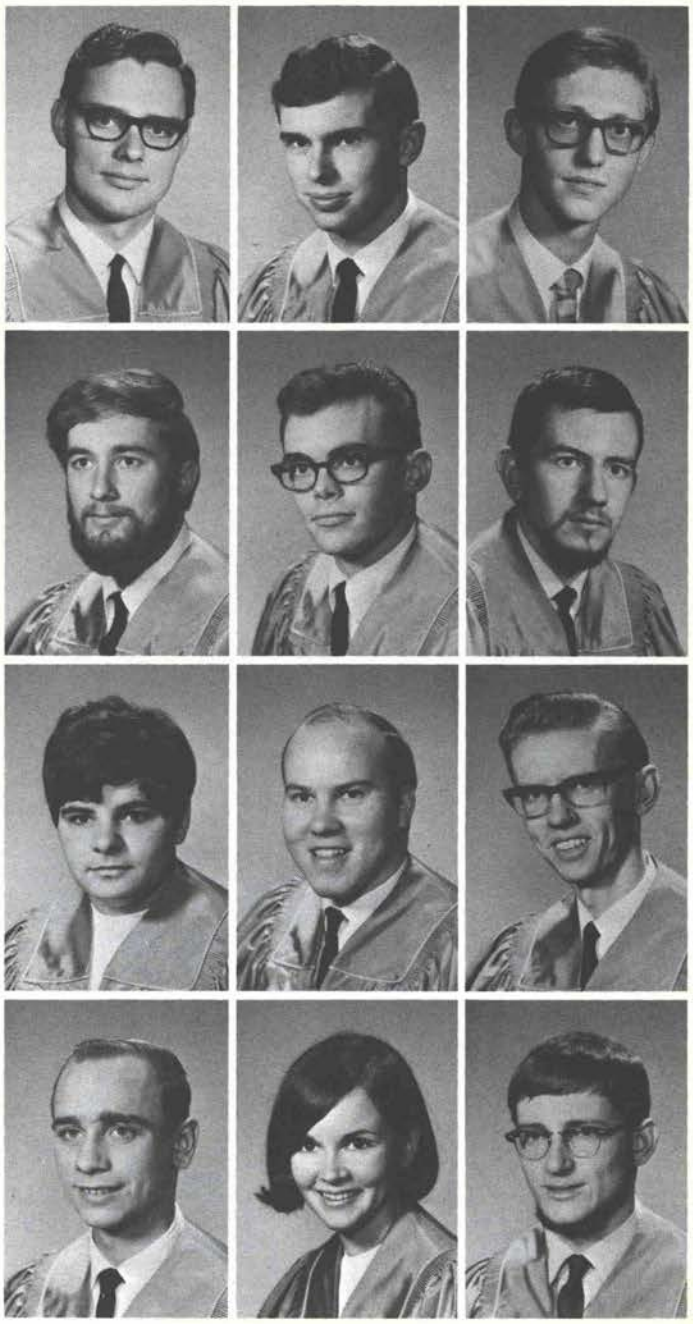
W.R. Pankoski
*Vancouver, B.C.*

W.M. Reinhardt
*Vancouver, B.C.*

A.P. Schmidt
*Osoyoos, B.C.*

L.M. Sundman
*Surrey, B.C.*

R.L. Van Den Ouden
*North Vancouver, B.C.*



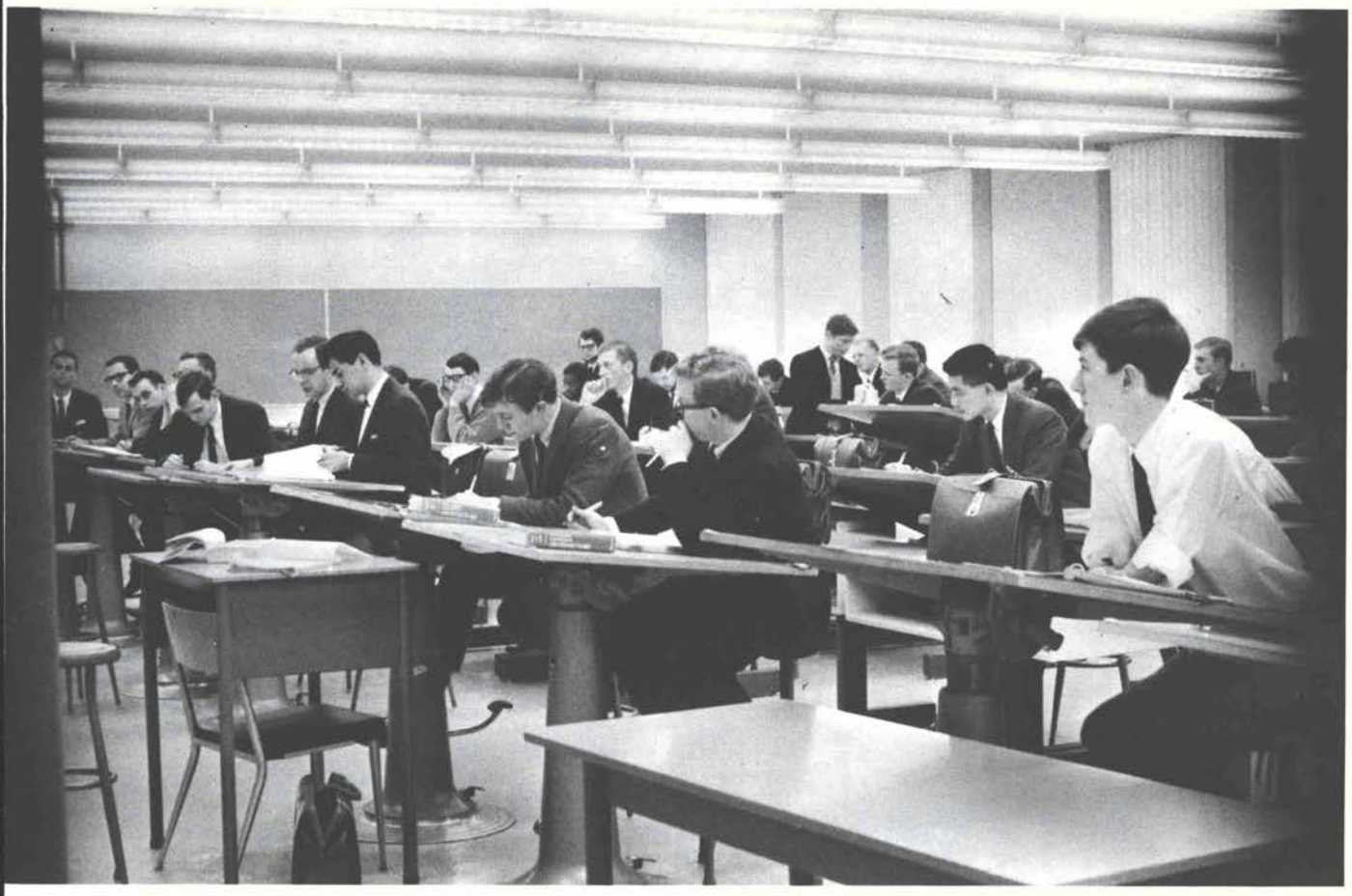
# building

So that's how you do it!

Throughout the world rapidly expanding populations have enormously increased the demand for building operations of all kinds, and the course in Building Technology is designed to give a sound preparation in as broad a range of related material as the time allows.

The course introduces students to various specialized subjects such as architectural design, building construction, structural engineering, mechanical and electrical services, and surveying. Materials of construction, specification writing, quantity and cost estimating and work study, further expand the possible areas for successful graduates.

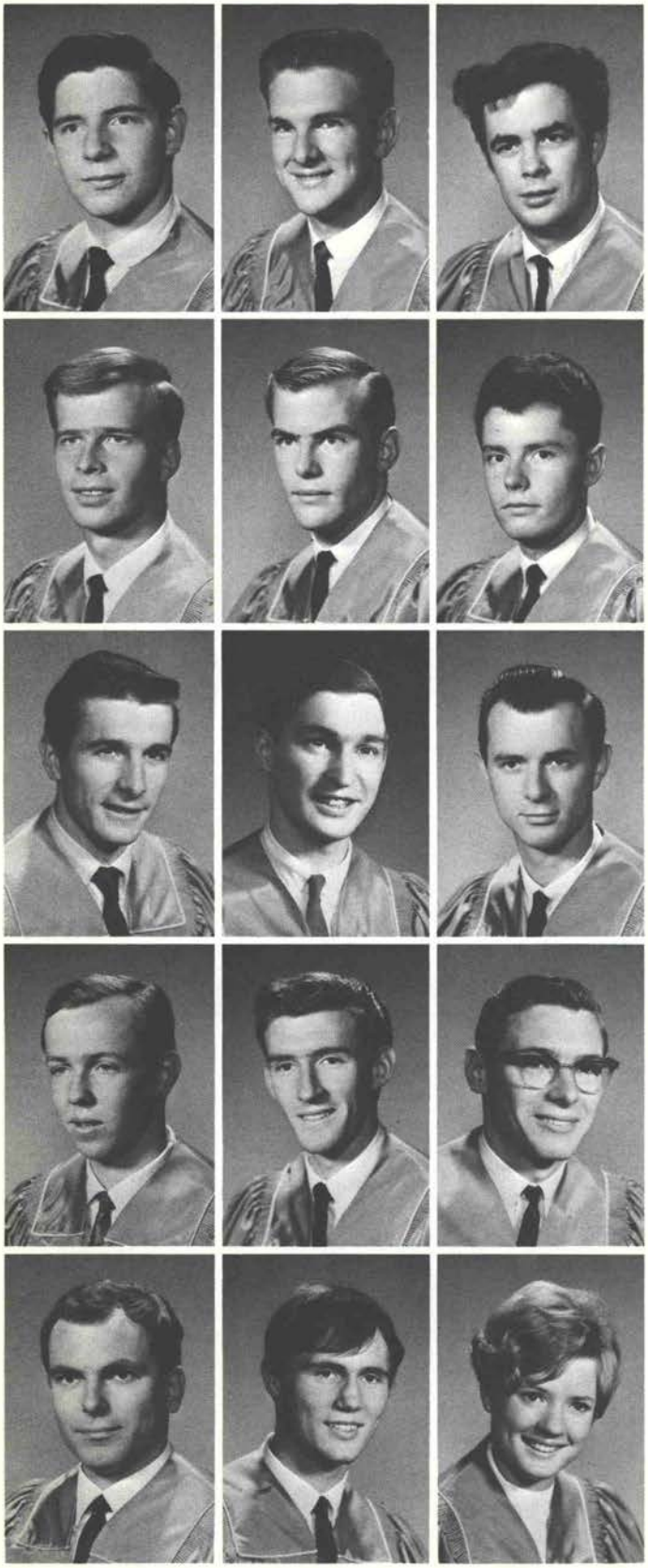
Fundamentally, graduate technologists will understand buildings three-dimensionally, with all their architectural, structural, and mechanical implications, and with this as a point of departure may enter any area of the building field or any related field to which their individual interests and qualifications lead them.



Services Lab

Preparing for a field trip

# building



N.H. Banks
*New Westminster, B.C.*

G.H. Bloch
*Abbotsford, B.C.*

M.G. Cochrane
*Victoria, B.C.*

P.L. Creech
*Vancouver, B.C.*

P.B. Dennett
*Abbotsford, B.C.*

A.G. Garras
*Burnaby, B.C.*

A.R. Haggard
*Coquitlam, B.C.*

W.K. Jubenville
*Lake Cowichan, B.C.*

R.A. Kenny
*White Rock, B.C.*

T.A. Lubzinski
*Surrey, B.C.*

R.P. McLean
*Terrace, B.C.*

D.F. Milligan
*Powell River, B.C.*

B. Mischke
*West Vancouver, B.C.*

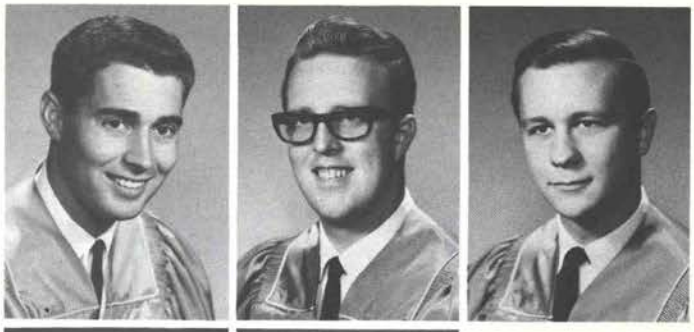
M.G. Mitchell
*Comox, B.C.*

E.J. Russell
*West Vancouver, B.C.*

K.E. Skinner
*Burnaby, B.C.*

O.H. Skjoldal
*Vancouver, B.C.*

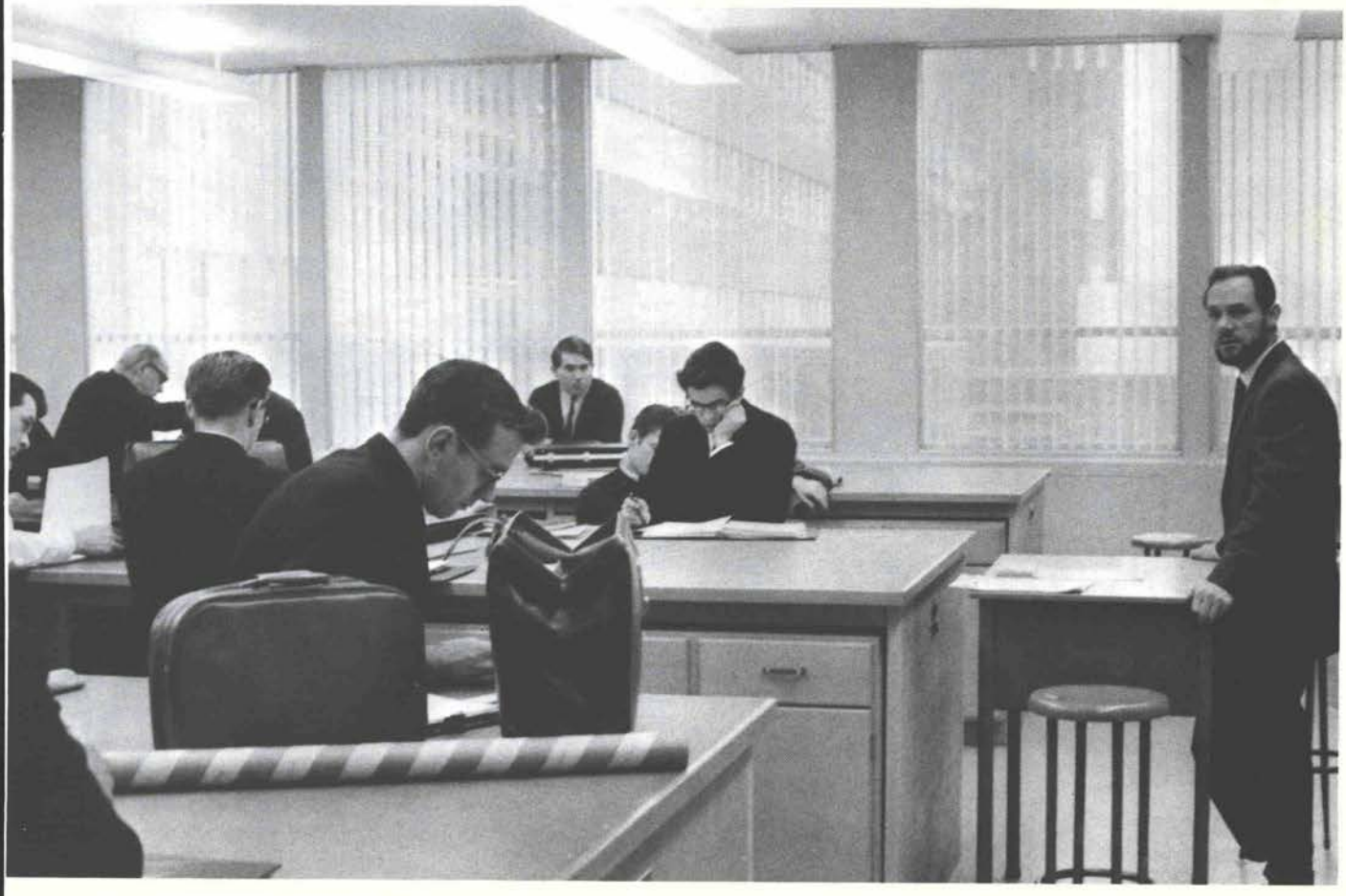
R.E. Waldron
*Vancouver, B.C.*



L.S. Wilson
*Vancouver, B.C.*

R.R. Wray
*Vancouver, B.C.*

Tutorial



# business

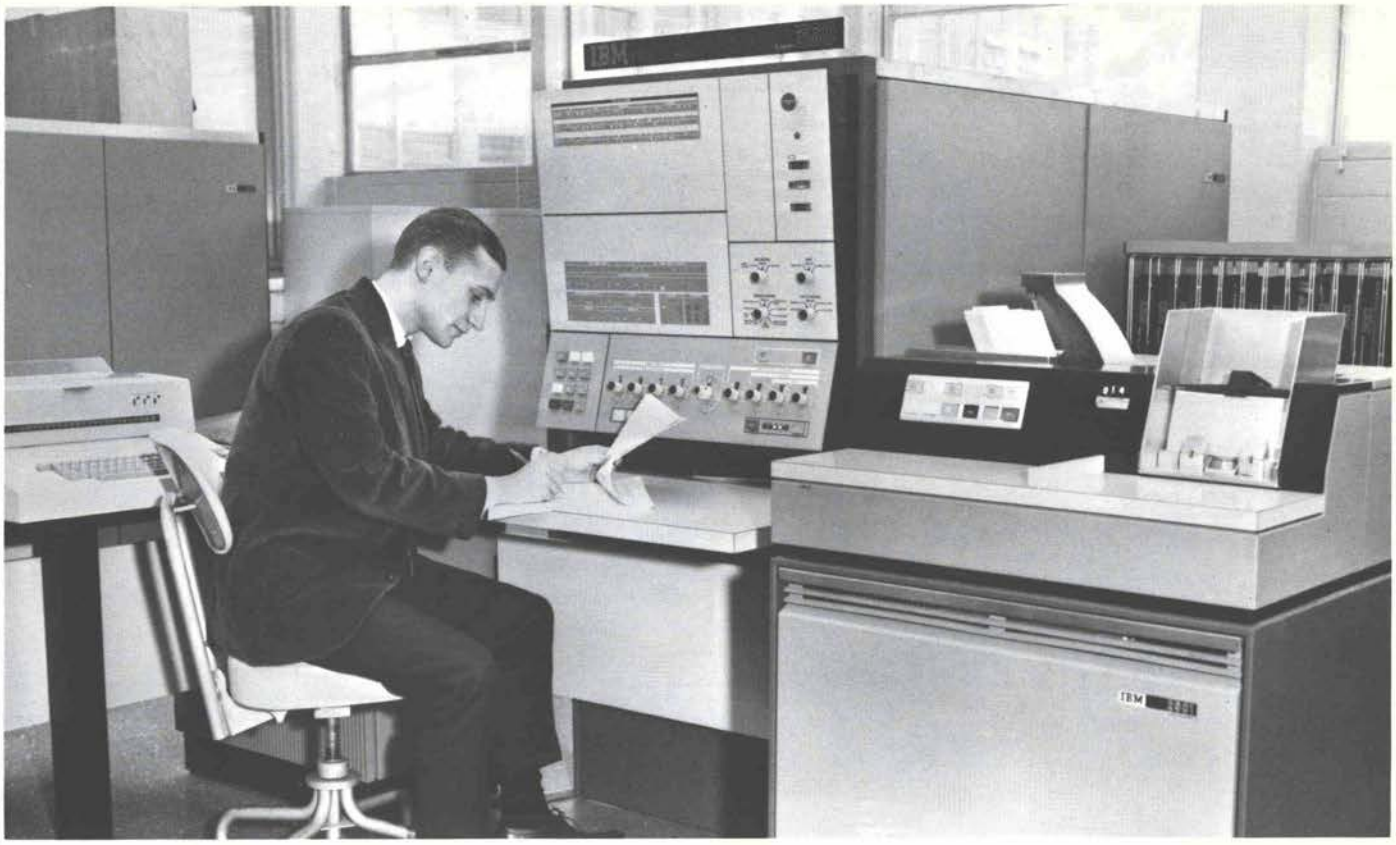
Accounting Lab

Office Systems Lab

The accelerated development in recent years of scientific knowledge and industrial productivity has increased the complexity of modern business. This has stimulated competition to a very high degree, and in order to maintain its ability to compete, management has had to rely on a more scientific approach to managing. Specialists in many fields are employed to gather, analyse, interpret, and present information for management's use.

The curriculum of the Business Management programme embraces the technical nature of management practices and students follow a prescribed course in one of the following options: Accounting, Administrative Management, Marketing, Computer Programming and Systems, or Technical Management.

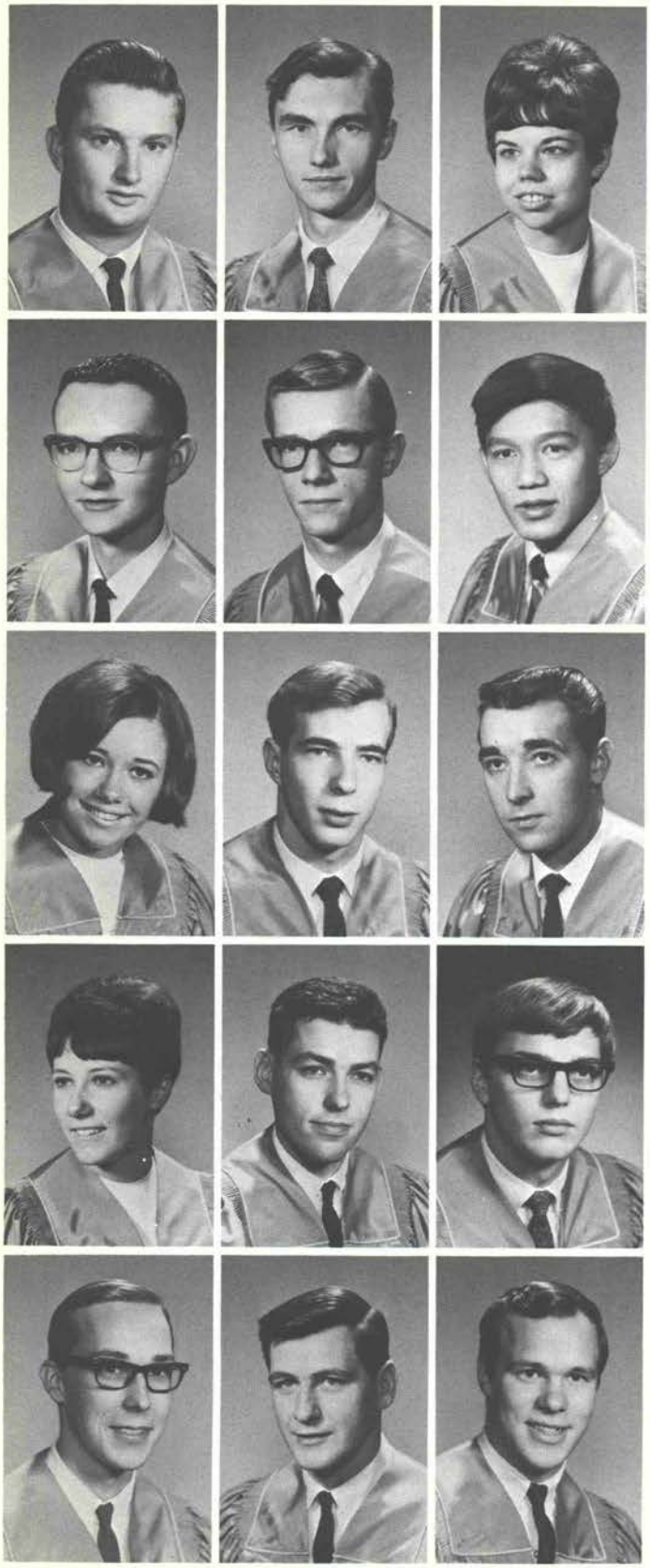
Business Management is a field of absorbing interest and continuing challenge leading to important and rewarding executive positions.



Computer Programming student at 360 console

Technical Management student during Physics Lab.

# business



G.G. Angstadt
*Princeton, B.C.*

K.S. Armstrong
*Burnaby, B.C.*

K.D. Beck
*Kamloops, B.C.*

D.R. Black
*Vancouver, B.C.*

D.J. Blow
*North Vancouver, B.C.*

H.B. Chow
*Vancouver, B.C.*

R.E. Clough
*Vancouver, B.C.*

A.D. Cobbett
*Sardis, B.C.*

A.M. Colbeck
*West Vancouver, B.C.*

K.A. Conley
*Burnaby, B.C.*

B.M. Craig
*New Westminster, B.C.*

T.H. Croft
*Victoria, B.C.*

A.G. Currie
*Vancouver, B.C.*

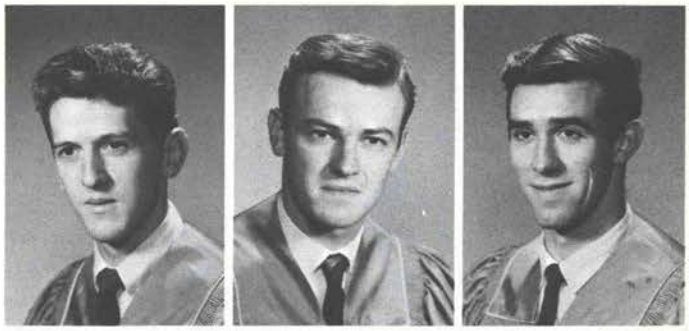
N.H. Dainard
*Cloverdale, B.C.*

D.J. Dickson
*Victoria, B.C.*

R.A. Docksteader
*Grand Forks, B.C.*

M. Dunn
*North Vancouver, B.C.*

C.D. Eccles
*Trail, B.C.*



R.C. Farris
*North Vancouver, B.C.*

R.B. Funston
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G.D. Galer
*Port Coquitlam, B.C.*

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J.E. Greenslade
*Vancouver, B.C.*

T.L. Greenslade
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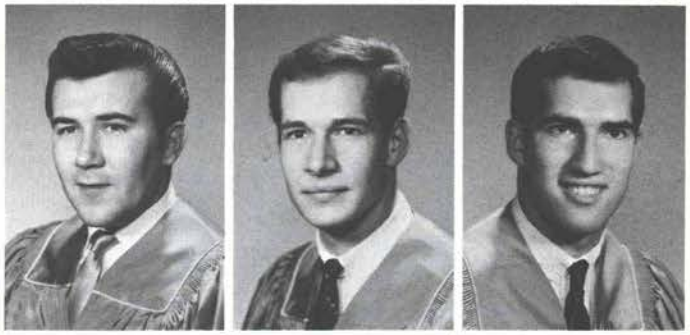

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W.G. Hamson
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K.R. Hanson
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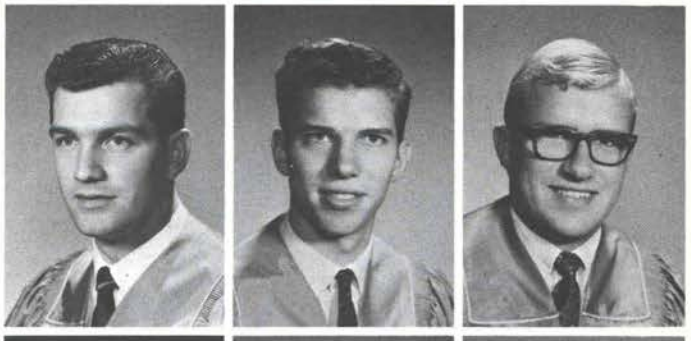

M.A. Hocken
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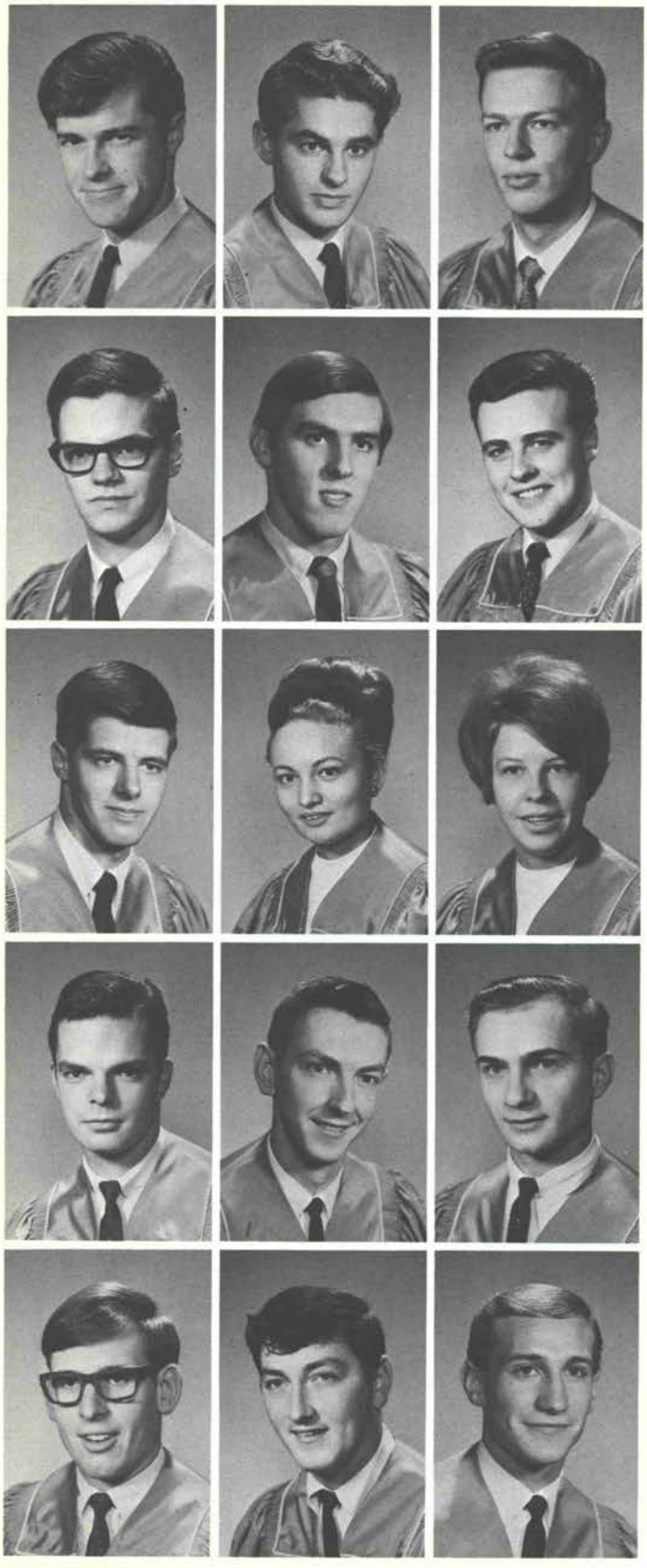
F.R. Howitt
*Vancouver, B.C.*

D.S. Hoye
*Vernon, B.C.*

# business



R.M. Huntington
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G.F. Ingram
*White Rock, B.C.*

R. Jens
*Burnaby, B.C.*

D.K. Johnson
*Burnaby, B.C.*

C.R. Jones
*Vancouver, B.C.*

G.R. Jones
*Vancouver, B.C.*

E.W. Karjala
*Nanaimo, B.C.*

N.J. Kelly
*Sardis, B.C.*

J.E. Koldewyn
*Vancouver, B.C.*

J.E. Lanyon
*North Vancouver, B.C.*

T.H. Lapointe
*North Vancouver, B.C.*

R.O. Lascelle
*Surrey, B.C.*

R.G. Lewall
*Vancouver, B.C.*

W.M. Macdonald
*Chemainus, B.C.*

R.D. MacKinnon
*West Vancouver, B.C.*

S.E. Maddocks
*Surrey, B.C.*

B.A. Marconi
*Vancouver, B.C.*

D.S. Matson
*New Westminster, B.C.*

R.J. McArthur
*North Vancouver, B.C.*

T.C. McBeath
*New Westminster, B.C.*

K.P. McGuinness
*Vancouver, B.C.*

T.J. McKinnon
*Burnaby, B.C.*

J.M. McLeod
*North Vancouver, B.C.*

J.F. Mehain
*Burnaby, B.C.*

M.M. Meredith
*Vancouver, B.C.*

G.W. Moore
*Coquitlam, B.C.*

A.H. Mutis
*Burnaby, B.C.*

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J.L. Nichol
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V.G. Nicola
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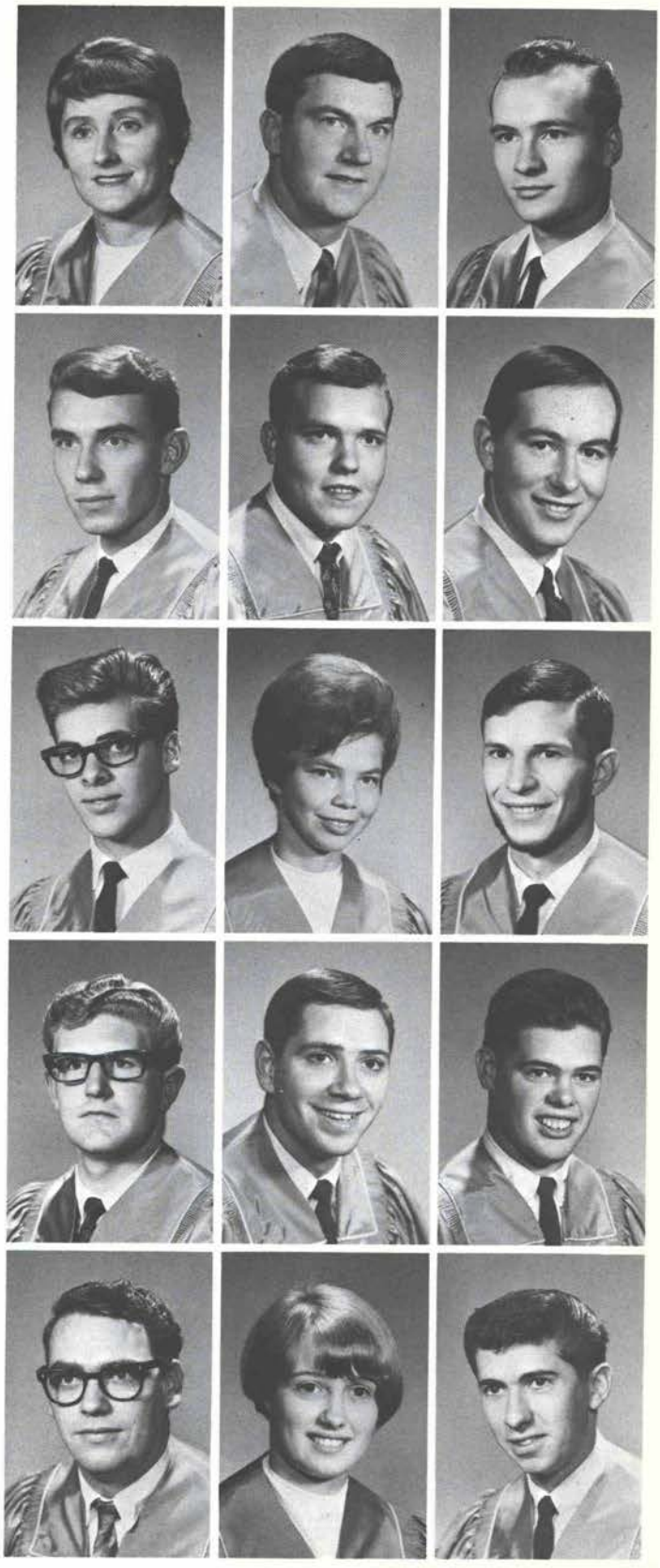
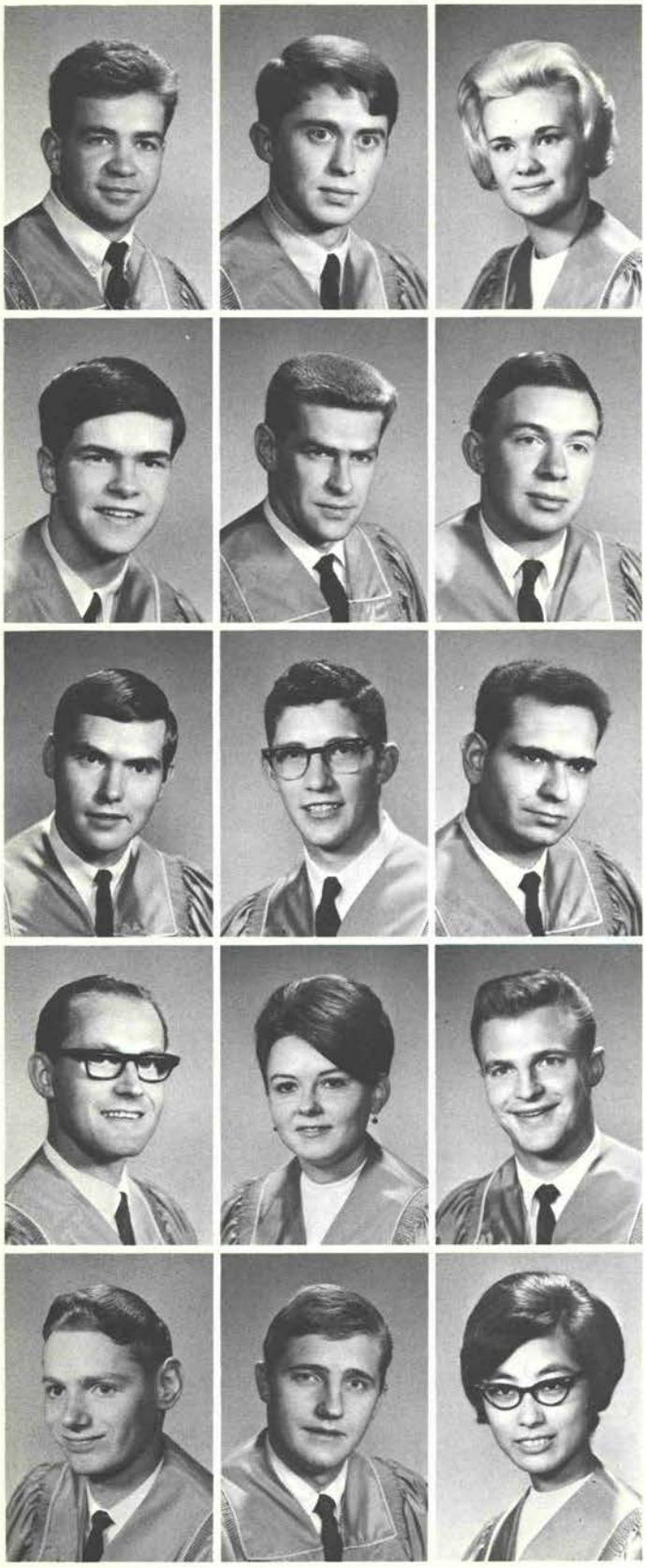


# business



W.R. Norman
*North Vancouver, B.C.*

W.H. Norris
*Vancouver, B.C.*

J. Nystedt
*Richmond, B.C.*

G.W. O'Connell
*Coquitlam, B.C.*

T.C. Ouellette
*New Westminster, B.C.*

E.G. Palmer
*North Vancouver, B.C.*

H.G. Pauls
*Burnaby, B.C.*

G.W. Powell
*Vancouver, B.C.*

C.D. Razis
*Vancouver, B.C.*

T. Ring
*New Westminster, B.C.*

M.L. Rollins
*Burnaby, B.C.*

G.C. Ross
*North Vancouver, B.C.*

G.P. Ross
*Coquitlam, B.C.*

E.L. Rubuliak
*Richmond, B.C.*

E.Y. Sakai
*Richmond, B.C.*

J.P. Scherba
*Surrey, B.C.*

P.T. Schooley
*Prince Rupert, B.C.*

K.G. Scoten
*Vancouver, B.C.*

W.A. Sellmer
*Osoyoos, B.C.*

R.J. Short
*Vancouver, B.C.*

T.B. Singh
*North Vancouver, B.C.*

E.H. Smallenberg
*Burnaby, B.C.*

R.G. Small
*Vancouver, B.C.*

H.R. Soon
*Vancouver, B.C.*

B.D. Starr
*Fernie, B.C.*

G.W. Steed
*Nelson, B.C.*

F.A. Storey
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J. Storrs
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R.J. Swanson
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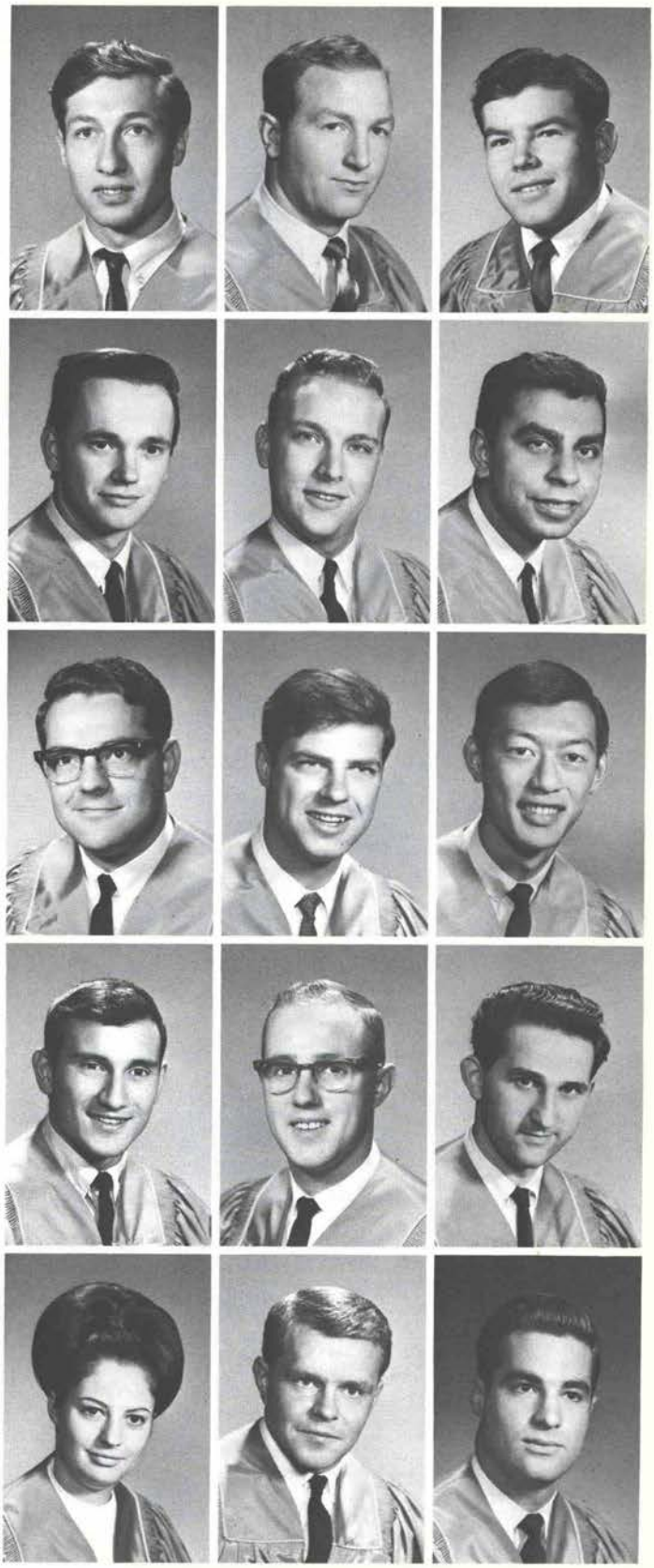
D.R. Walker
*Campbell River, B.C.*



L.M. Wallin
*Vancouver, B.C.*

P.G. Wardell
*West Vancouver, B.C.*

P.C. Watson
*South Burnaby, B.C.*

G.D. Watt
*West Vancouver, B.C.*

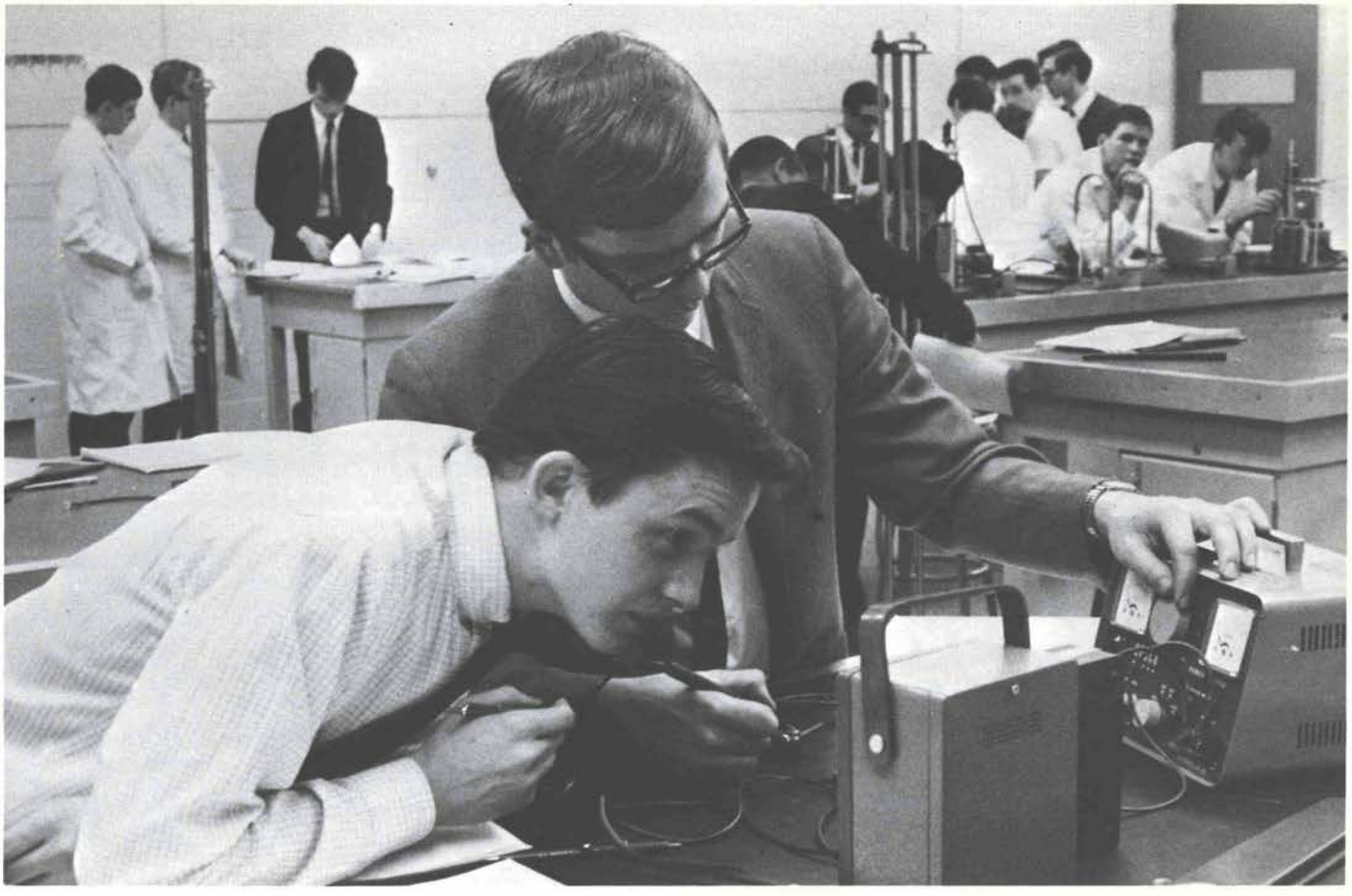
J. Watt
*White Rock, B.C.*

L.A. Wilkinson
*Nanaimo, B.C.*

R.F. Williamson
*Vancouver, B.C.*

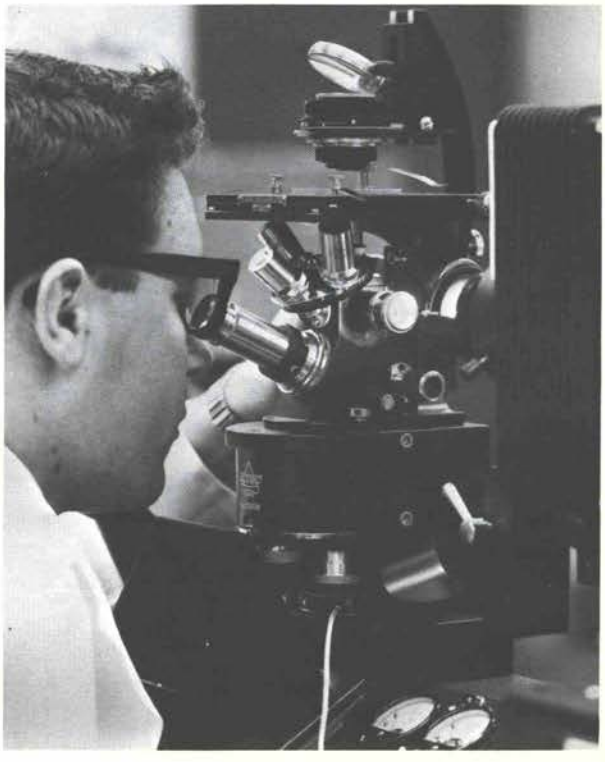
Technical Management II
Automation Lecture

# chemical and metallurgical



Physics Lab

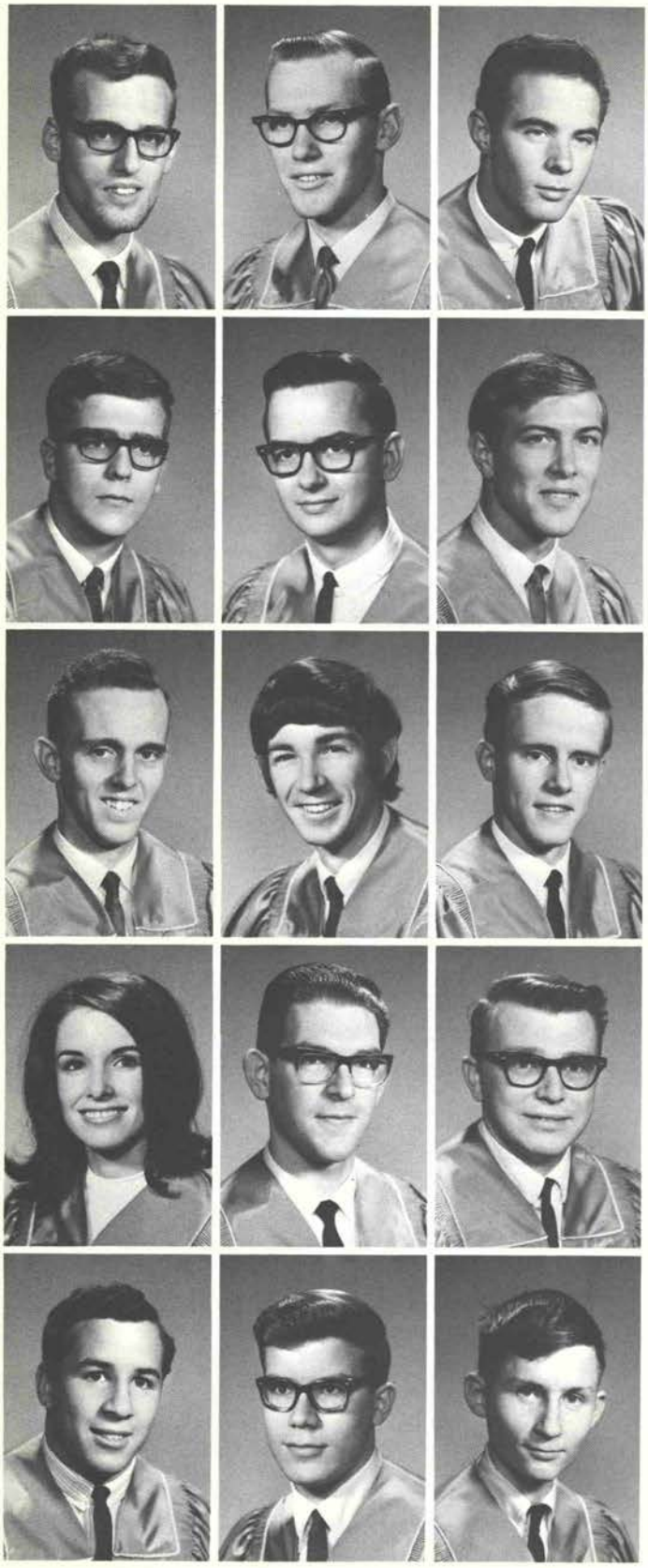
Physical Metallurgy



The programme in Chemical and Metallurgical Technology enables graduates to enter the process industries - either in the laboratory, in the production department, or in the technical sales department. The technology encompasses a broad range of industries and sciences, with emphasis on mathematics, physics and chemistry, and their application to problems recurring in the chemical process industries.

Typical of the positions graduates would seek upon entering industry would be as chemists and analysts in research, commercial, and industrial laboratories. Engineering assistants in engineering departments of industrial and consulting companies, as production supervisor trainees in production plants, or as technical sales trainees in the sales departments of chemical process industries or equipment manufacturers.

# chemical & metallurgical



W.G. Armanini
*Kamloops, B.C.*

L.A. Bjerstedt
*Cranbrook, B.C.*

R.M. Johnstone
*Vancouver, B.C.*

T.L. Kress
*Vancouver, B.C.*

R.P. McFarland
*Penticton, B.C.*

D.A. McLaren
*Victoria, B.C.*

D.R. Nisbet
*New Westminster, B.C.*

G.J. Palmer
*Vancouver, B.C.*

R.A. Palylyk
*Lazo, B.C.*

V.D. Phare
*Vernon, B.C.*

H. Prinsenberg
*Alberni, B.C.*

R.D. Rowland
*Vancouver, B.C.*

R.M. Samuels
*Comox, B.C.*

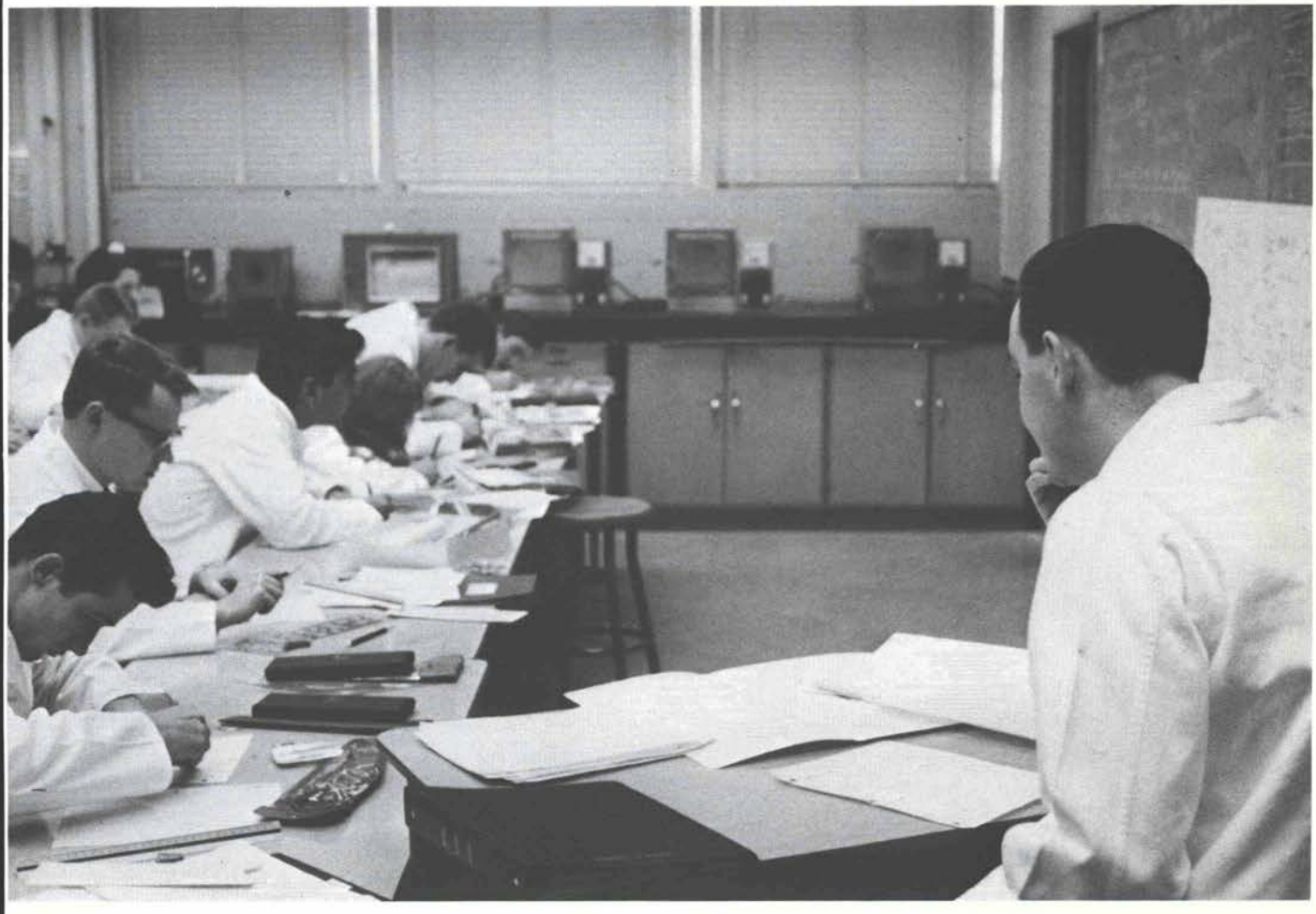
M.E. Schmitz
*Burnaby, B.C.*

K.D. Taylor
*North Vancouver, B.C.*

B.L. Twaites
*Vancouver, B.C.*

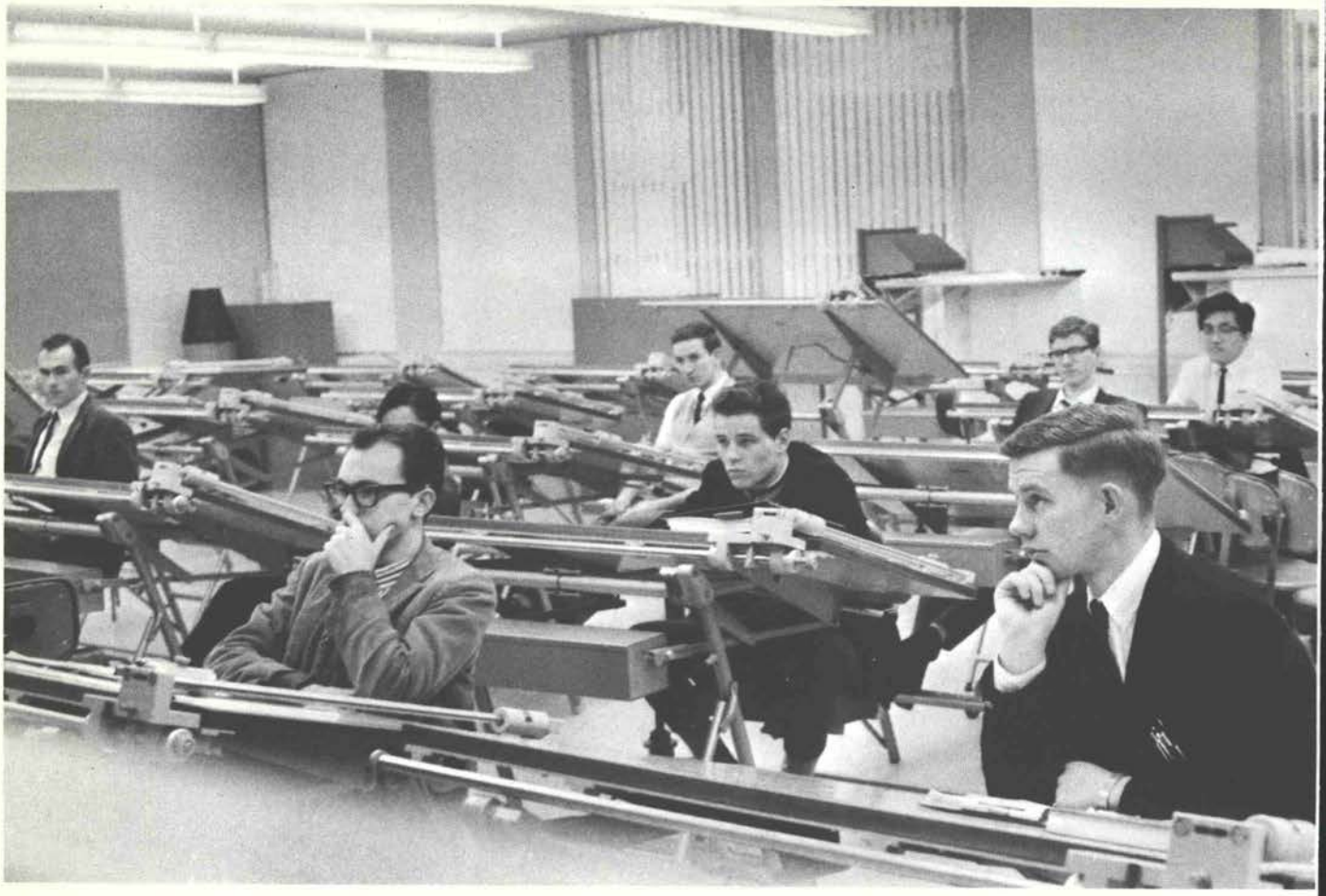
N.A. Wallbank
*North Vancouver, B.C.*

K.G. Willett
*Fort St. John, B.C.*



Chem and Met I Workshop

# civil & structural



Costing and
Specifications Lab

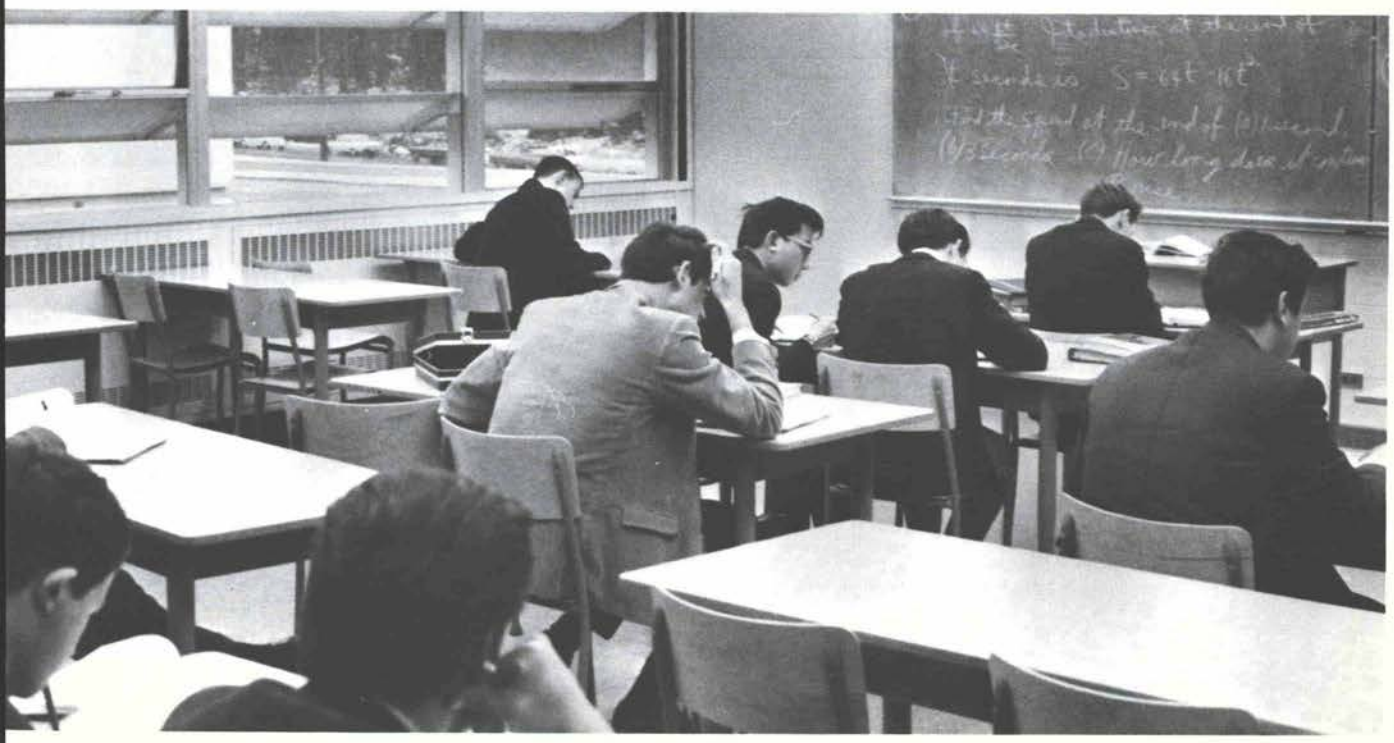
Civil and Structural Technology, which creates the physical facilities for our civilized environment, is concerned with the design and construction of highways, bridges, airports, dams, power developments, docks, harbours and buildings of all kinds as well as drainage, irrigation, sewage and water supply systems.

With the economy developing rapidly, a great demand exists for trained technicians. The Civil and Structural Technology course is specifically designed to train civil and structural technicians of high calibre, and this programme will provide a man with sufficient specialized knowledge to make him immediately capable of playing a most useful role in the economy and prepare him also to adapt to the demands of the future.

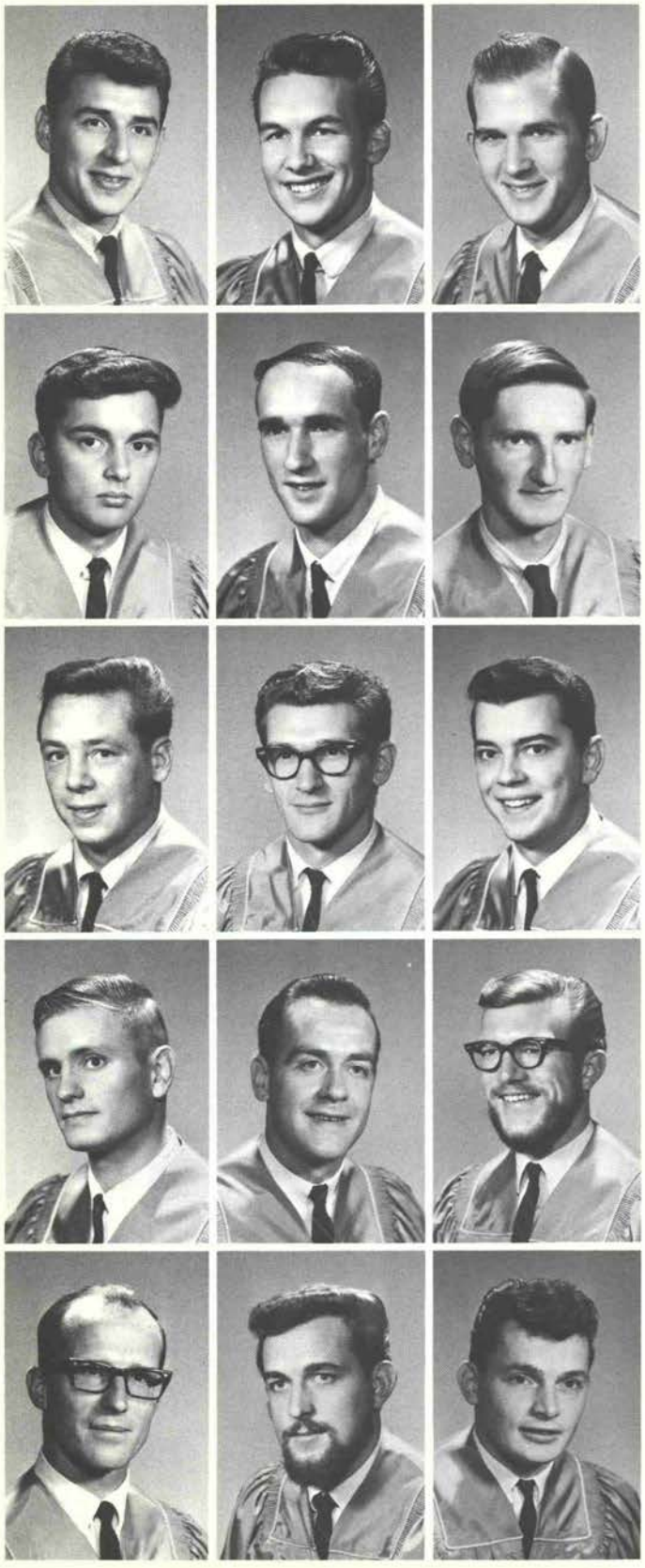
In this fast expanding industry, demanding initiative and responsibility from its employees, a graduate may be employed as an investigating or laboratory technician, or as a design or field technician in a consultant's office. He may be employed by municipal, provincial, or federal agencies, by consulting engineers, architects, and contractors, or in the technical sales field.

That last minute effort during lunchtime.

Math Lab.



# civil & structural



I.M. Ballendine
*Burnaby, B.C.*

R.E. Bickerton
*Vancouver, B.C.*

P.L. Bishop
*Courtenay, B.C.*

J.R. Bochard
*Vancouver, B.C.*

D.R. Burdett
*North Vancouver, B.C.*

L.A. Carr
*Prince George, B.C.*

G.B. Dane
*Union Bay, B.C.*

P.V. Dasnieres
*Salmon Arm, B.C.*

B.M. Ehly
*Burnaby, B.C.*

J.E. Fetters
*Williams Lake, B.C.*

J.T. Germaine
*Burnaby, B.C.*

D.P. Graham
*Vancouver, B.C.*

B.J. Inglis
*Vancouver, B.C.*

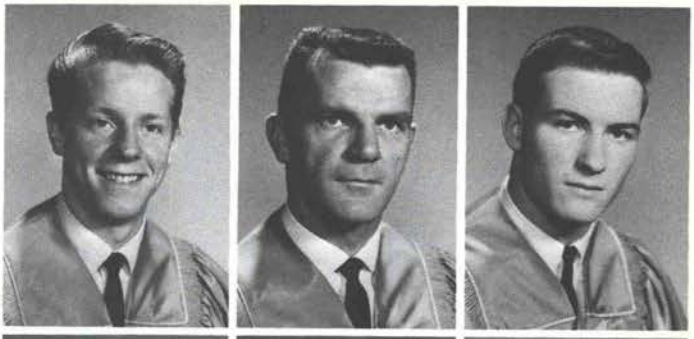
R.N. Isaak
*Chilliwack, B.C.*

W.A. Jones
*Vancouver, B.C.*

D.G. Lamb
*Langley, B.C.*

J.A. MacDonald
*Princeton, B.C.*

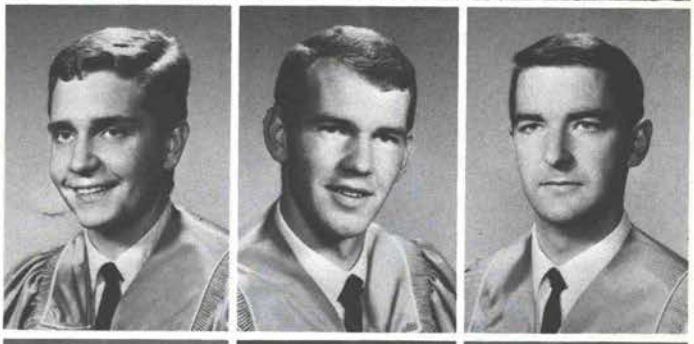
G.W. Rawlings
*Kelowna, B.C.*



K.D. Reynolds
*Port Alberni, B.C.*

M.B. Thomas
*Victoria, B.C.*

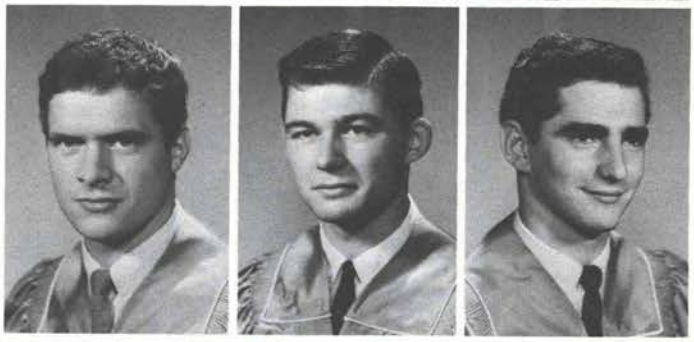
R.A. Walters
*White Rock, B.C.*



T.M. Wilshire
*Vancouver, B.C.*

R.C. Wouts
*Burnaby, B.C.*

E. Zuccolin
*Vancouver, B.C.*



Civil and Structural at work?

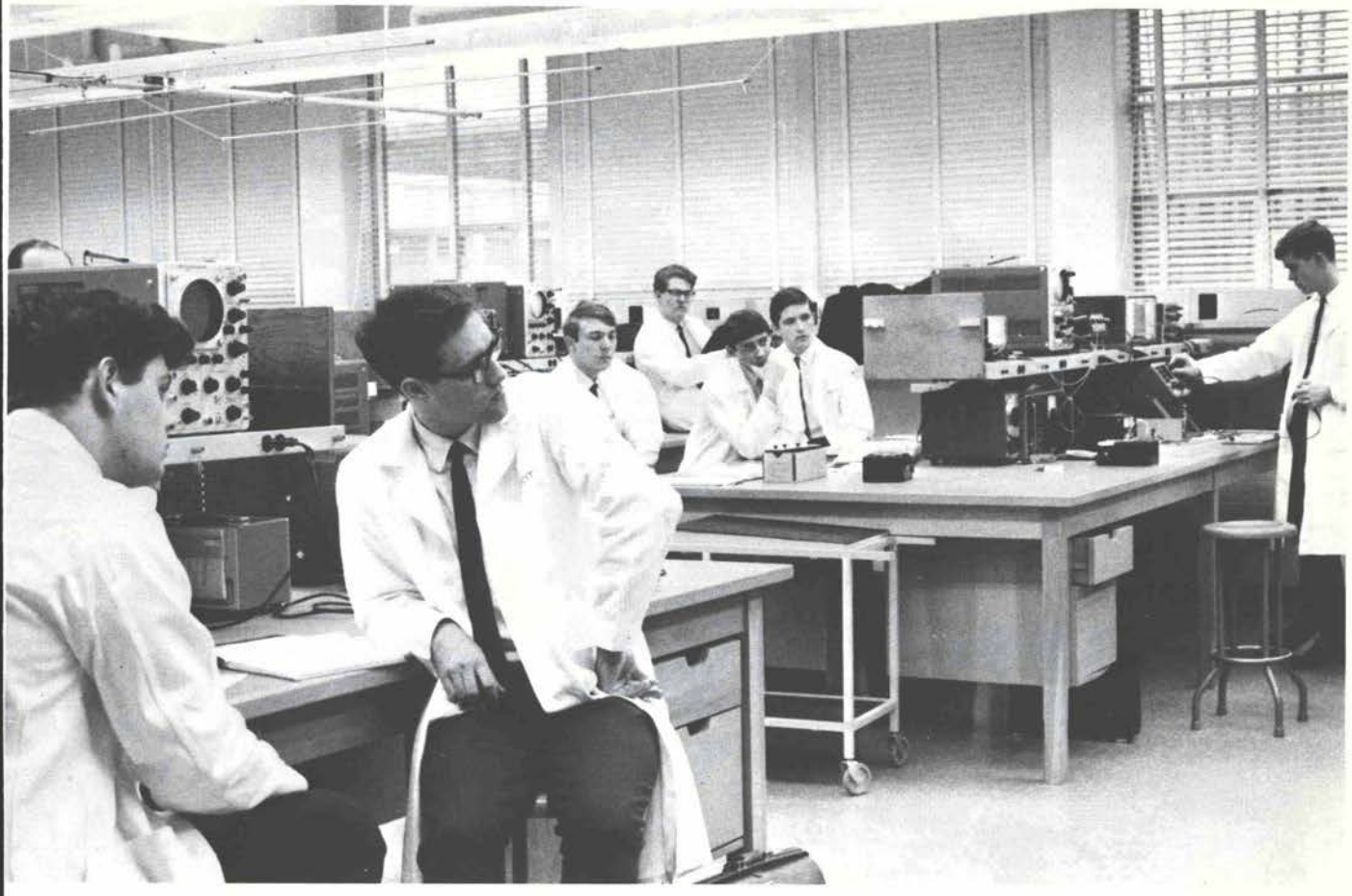
# electrical & electronics

Pulse Circuits lab.

The electrical and electronics industry, so vital to every aspect of Canadian life, continues to grow rapidly. It provides power needed by industry, supplies facilities for the ever-increasing requirements of communications serves the need of automation, transportation, defence, and our personal comforts.

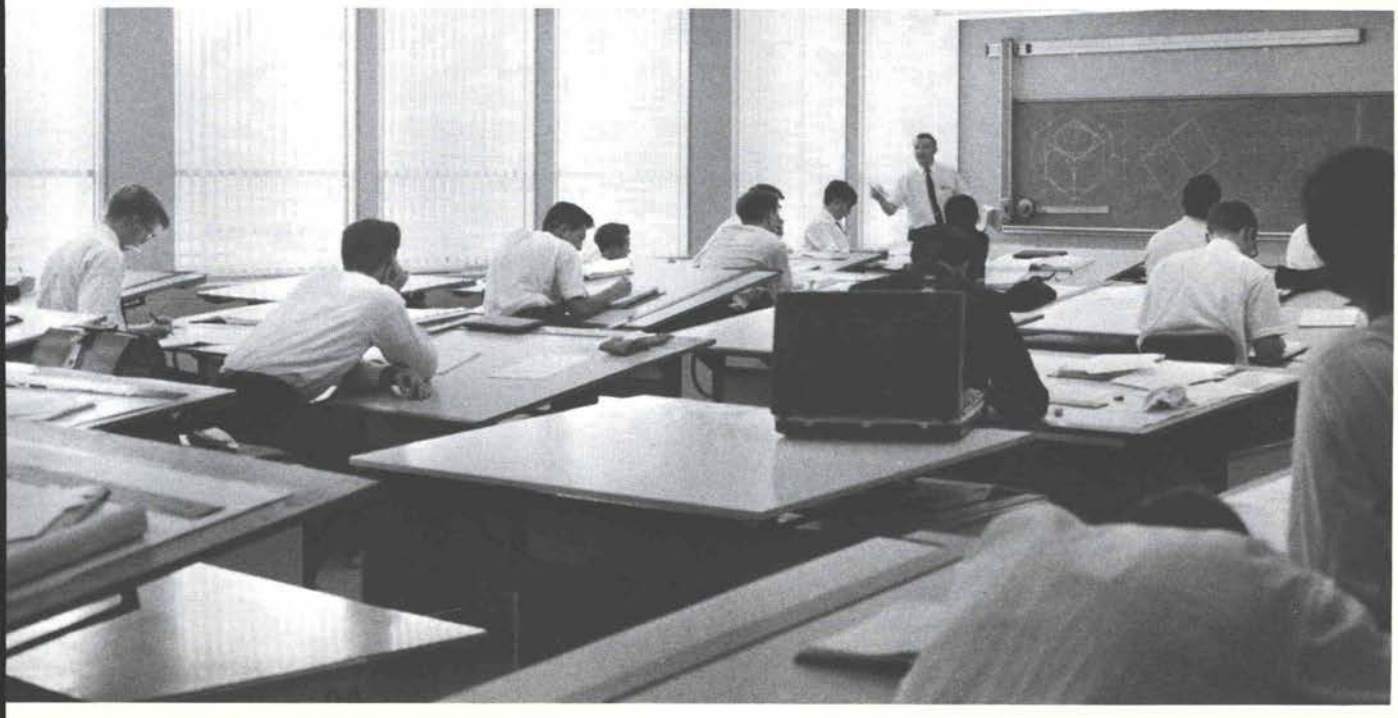
There is a continuing and increasing need for men and women well-trained in the principles and practical application of electricity and electronics to apply their talents and assume positions of importance in an ever-expanding and interesting field.

A broad training is given in fundamentals and industrial practices, qualifying the graduate to enter industry at the semi-professional level as an engineering assistant or its equivalent. The graduate will be well qualified to enter a variety of fields in an industry which provides many opportunities.

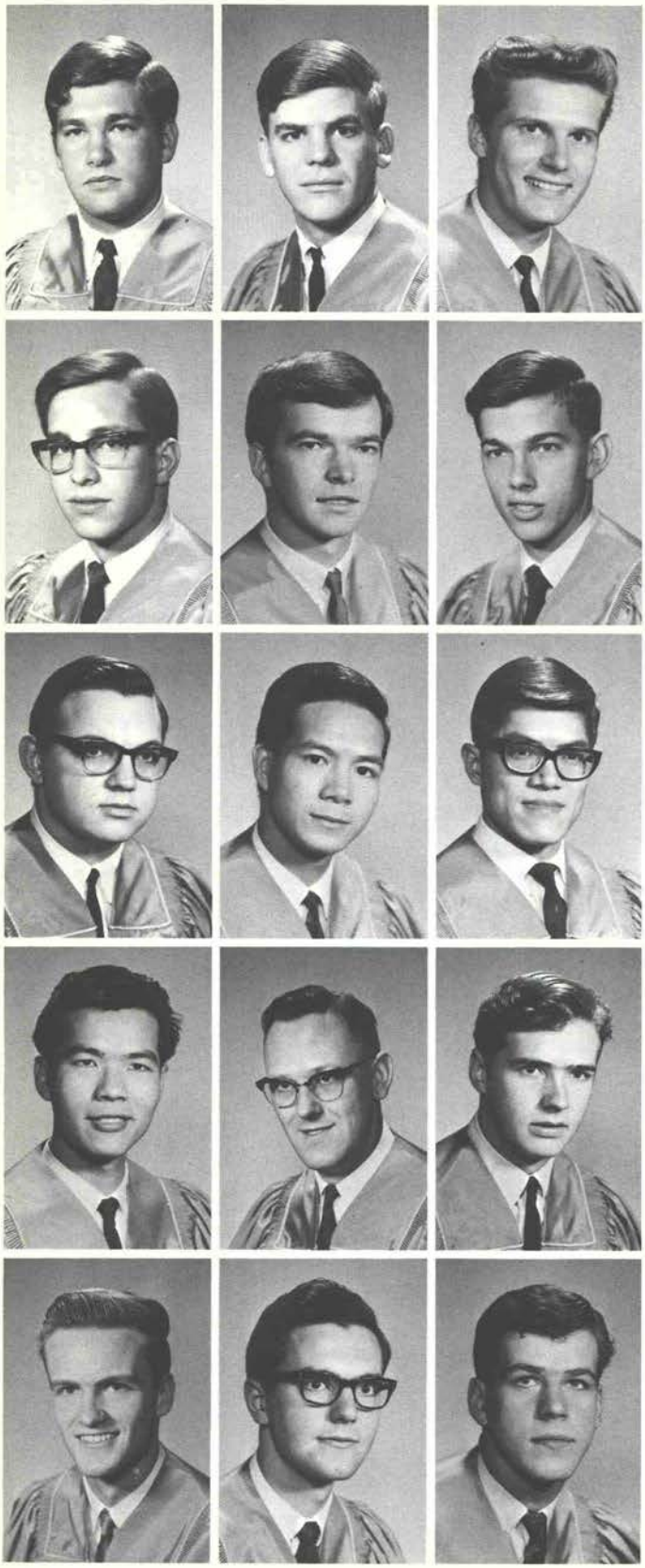


Still trying to master a tough subject - Pulse Circuits lab.

This is a cube, C-U-B-E!



# electrical & electronics



R.B. Allan
*Vancouver, B.C.*

R.W. Anderson
*Richmond, B.C.*

W.A. Becque
*Qualicum Beach, B.C.*

J.W. Beggs
*Campbell River, B.C.*

J.S. Bird
*Vancouver, B.C.*

D.A. Bishop
*Vancouver, B.C.*

T.S. Cassidy
*Kitimat, B.C.*

J. Chan
*Vancouver, B.C.*

J.H. Cheng
*Vancouver, B.C.*

R.G. Choy
*Vancouver, B.C.*

J.S. Coers
*Burnaby, B.C.*

E.F. Collins
*Vancouver, B.C.*

J.T. Corbett
*Richmond, B.C.*

R.J. Coutts
*Vancouver, B.C.*

A.J. De Bruyn
*Vancouver, B.C.*

B.K. Dempsey
*Victoria, B.C.*

B. Dodsworth
*Burnaby, B.C.*

D. Dong
*Vancouver, B.C.*

D.L. Dzugalo
*Vancouver, B.C.*

N.F. Easson
*Burnaby, B.C.*

W.A. Eyre
*North Vancouver, B.C.*

R.D. Forbes
*North Vancouver, B.C.*

N.R. Gillett
*Cobble Hill, B.C.*

T.W. Hagan
*Burnaby, B.C.*

G.J. Hagberg
*Victoria, B.C.*

L.D. Hall
*New Westminster, B.C.*

R.D. Hill
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J.N. Kosowan
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M.D. Marusiak
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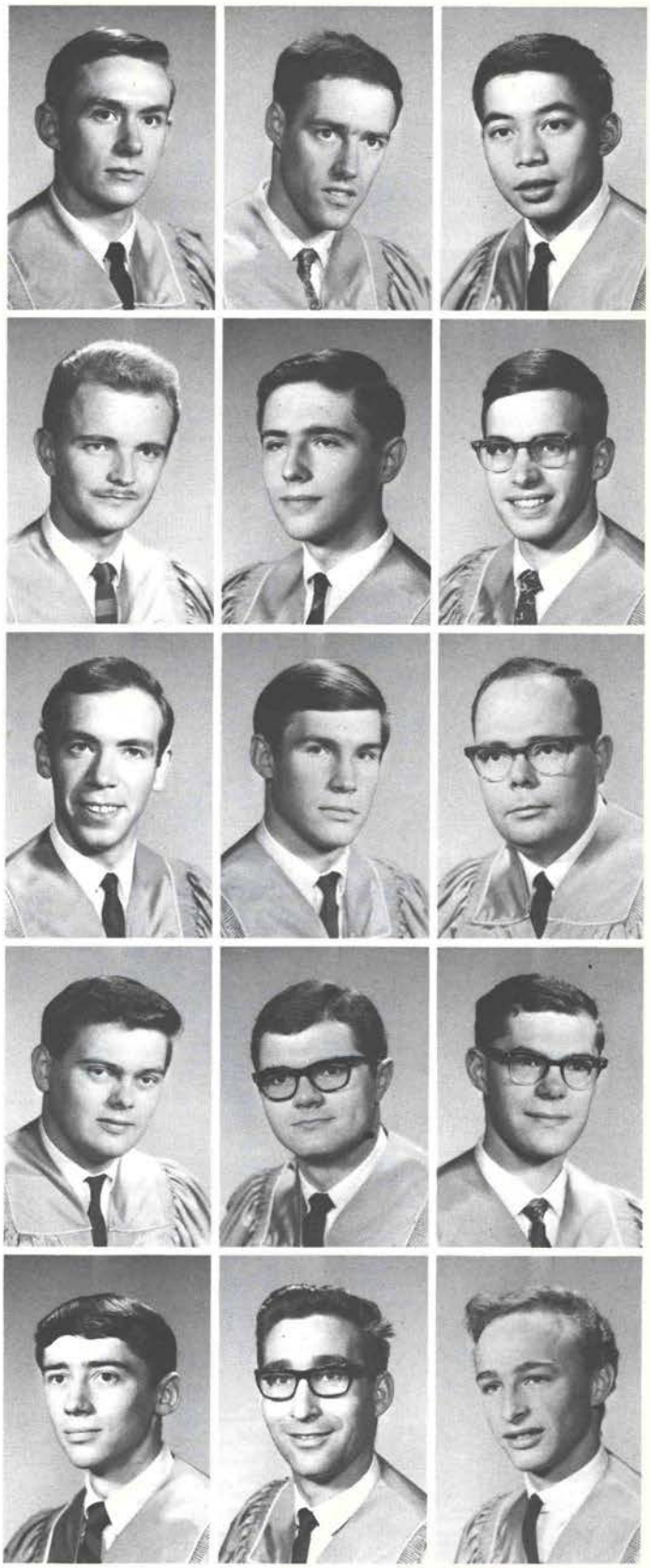
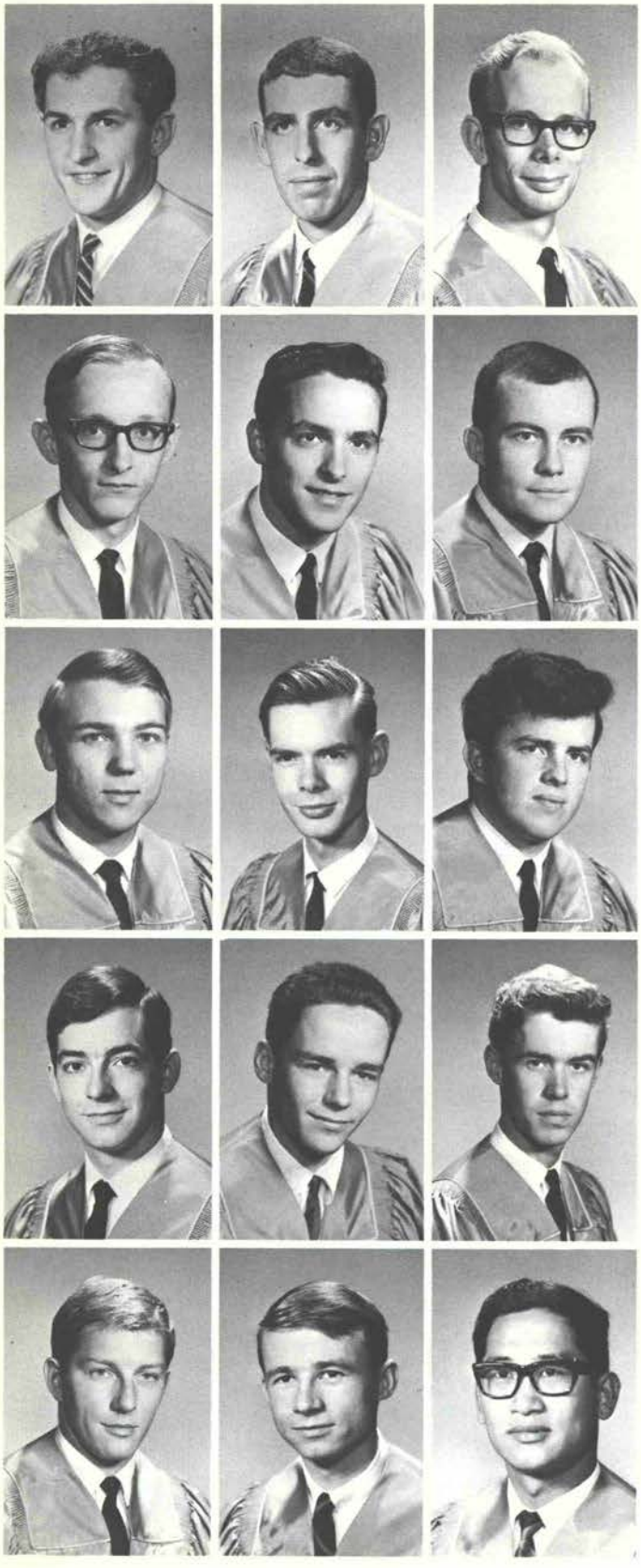


# electrical & electronics



B.D. McLellan
*North Vancouver, B.C.*

H.C. Moore
*Vancouver, B.C.*

W. Onstein
*Vancouver, B.C.*

L.D. Parry
*Richmond, B.C.*

G.L. Radom
*Lake Cowichan, B.C.*

D.L. Render
*North Vancouver, B.C.*

J.E. Renshaw
*Vancouver, B.C.*

B.H. Rose
*Vancouver, B.C.*

G.A. Sawkins
*Burnaby, B.C.*

E.W. Sketchley
*Dawson Creek, B.C.*

D.E. Snider
*Burnaby, B.C.*

J.A. Stark
*Vernon, B.C.*

R.B. Suddaby
*Aldergrove, B.C.*

W.R. Wall
*Vancouver, B.C.*

S.F. Wong
*Vancouver, B.C.*

W.E. Woods
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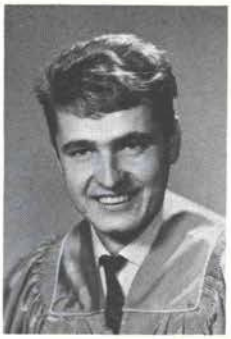
M.E. Zupancic
*Vancouver, B.C.*



To find the one correct answer: how many symbols, formulae - how much thought and frustration?

# food

Food Processing Pilot Plant

Food Microbiology

Our abundance of food, more nutritious, appetizing, and convenient today than ever before, can be attributed in large part to technological progress. The application of scientific methods is rapidly changing both the production of raw food materials and the processing of finished food products. As a result, skilled technicians are required to oversee and control the complex operations of our modern food industry.

Well equipped laboratories provide a thorough grounding in the sciences which leads to specialization. The Food Processing Option covers such aspects, at an advanced level, as quality control methods, food analysis, food preservation, sanitation, instrumentation, processing machinery, and business management.

The Food Production Option provides specialized courses in Crop, Animal, and Soil Technologies and specialities such as genetics, nutrition, pathology, chemistry, microbiology, statistics, together with the analytical, mechanical, and business aspects of modern agricultural production.

J.E. Colbeck
*West Vancouver, B.C.*

E.D. Crawford
*Burnaby, B.C.*

N.R. Darling
*Burnaby, B.C.*

A.C. Grahn
*Surrey, B.C.*

M.J. Hajdu
*Burnaby, B.C.*

E.H. Hunt
*Haney, B.C.*

E. Jang
*Vancouver, B.C.*

S.A. Lopez
*Vancouver, B.C.*

L.M. Markle
*Penticton, B.C.*

R.B. McDonald
*Vancouver, B.C.*

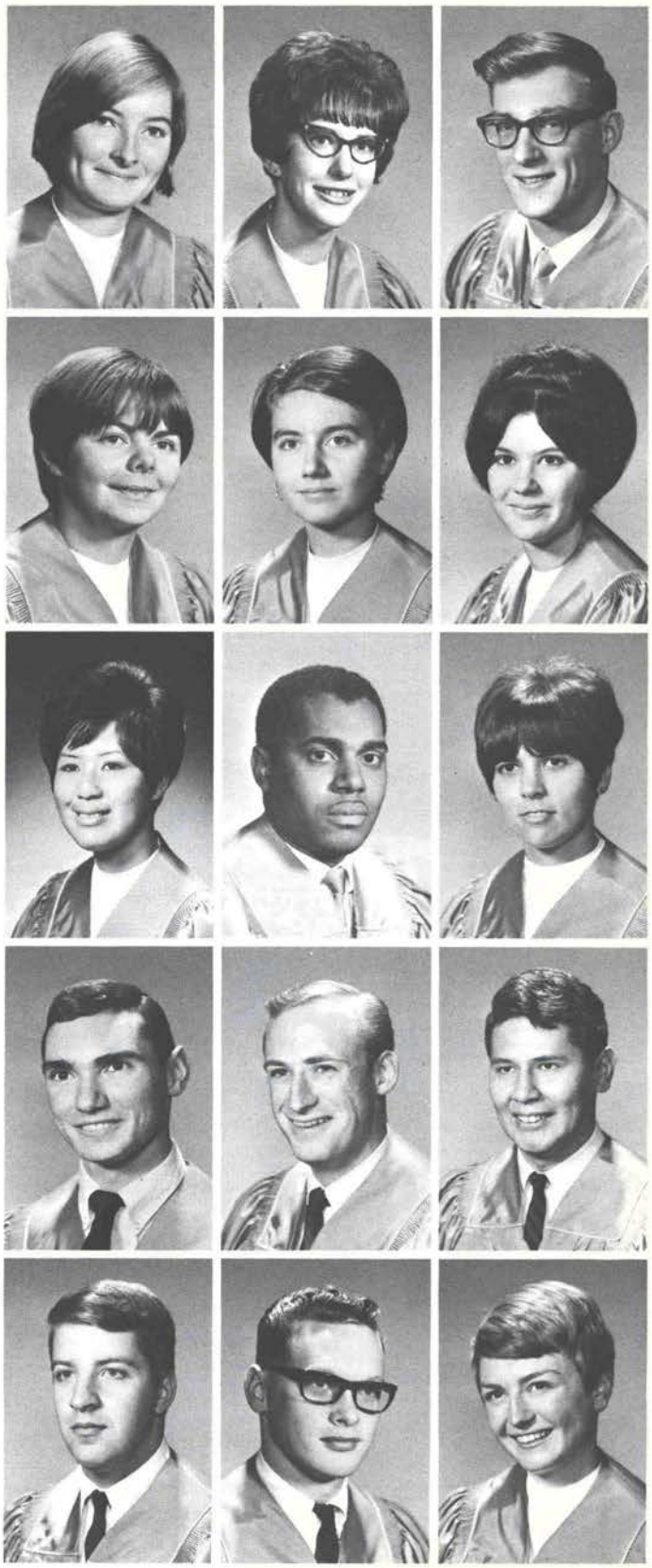
J.D. Robertson
*Vancouver, B.C.*

P.R. Scow
*Vancouver, B.C.*

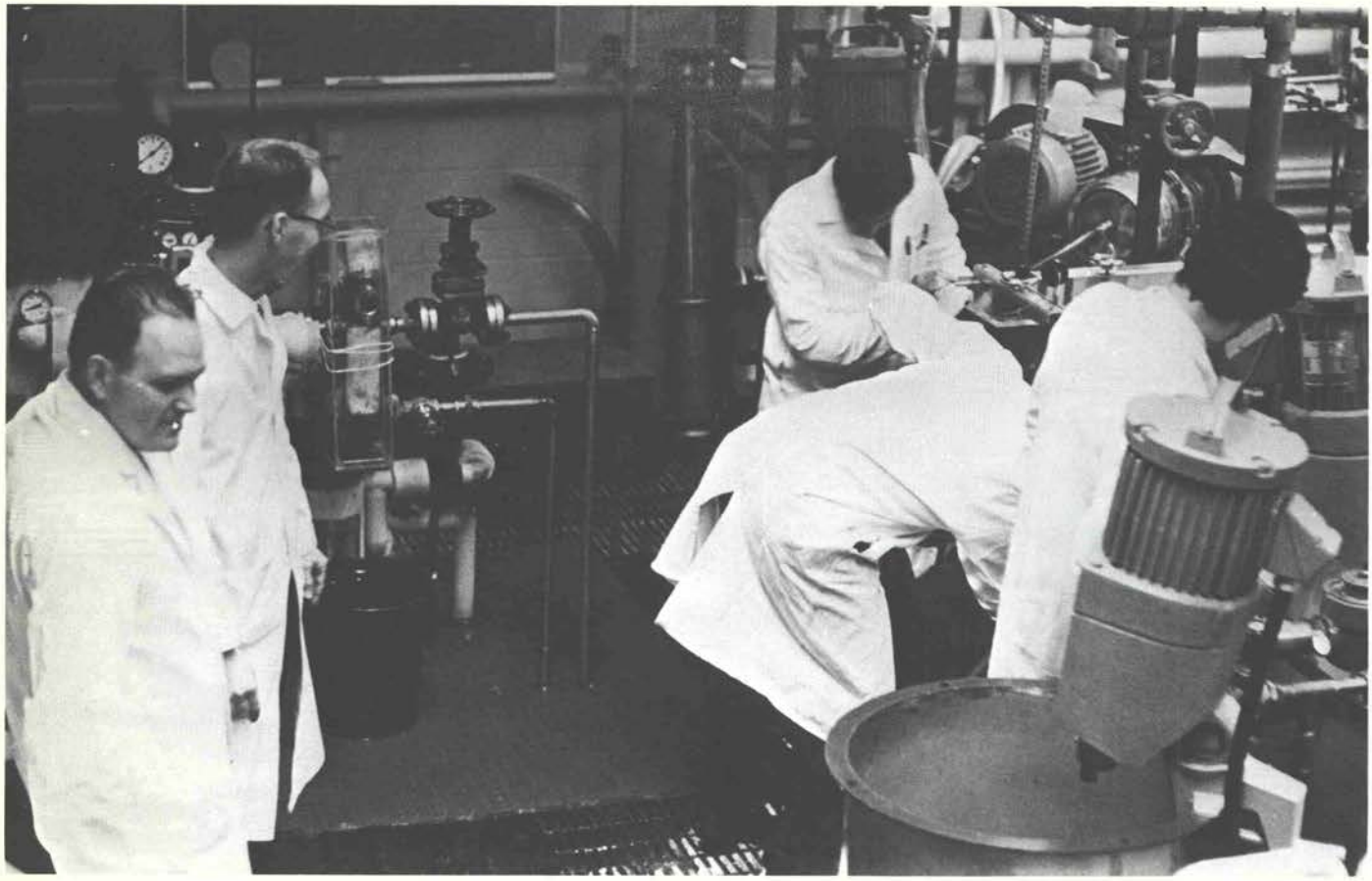
R.S. Smith
*Sardis, B.C.*

F.E. Swannie
*Burnaby, B.C.*

B.L. Wincott
*Sardis, B.C.*



# forest products



Pulp and Paper Lab

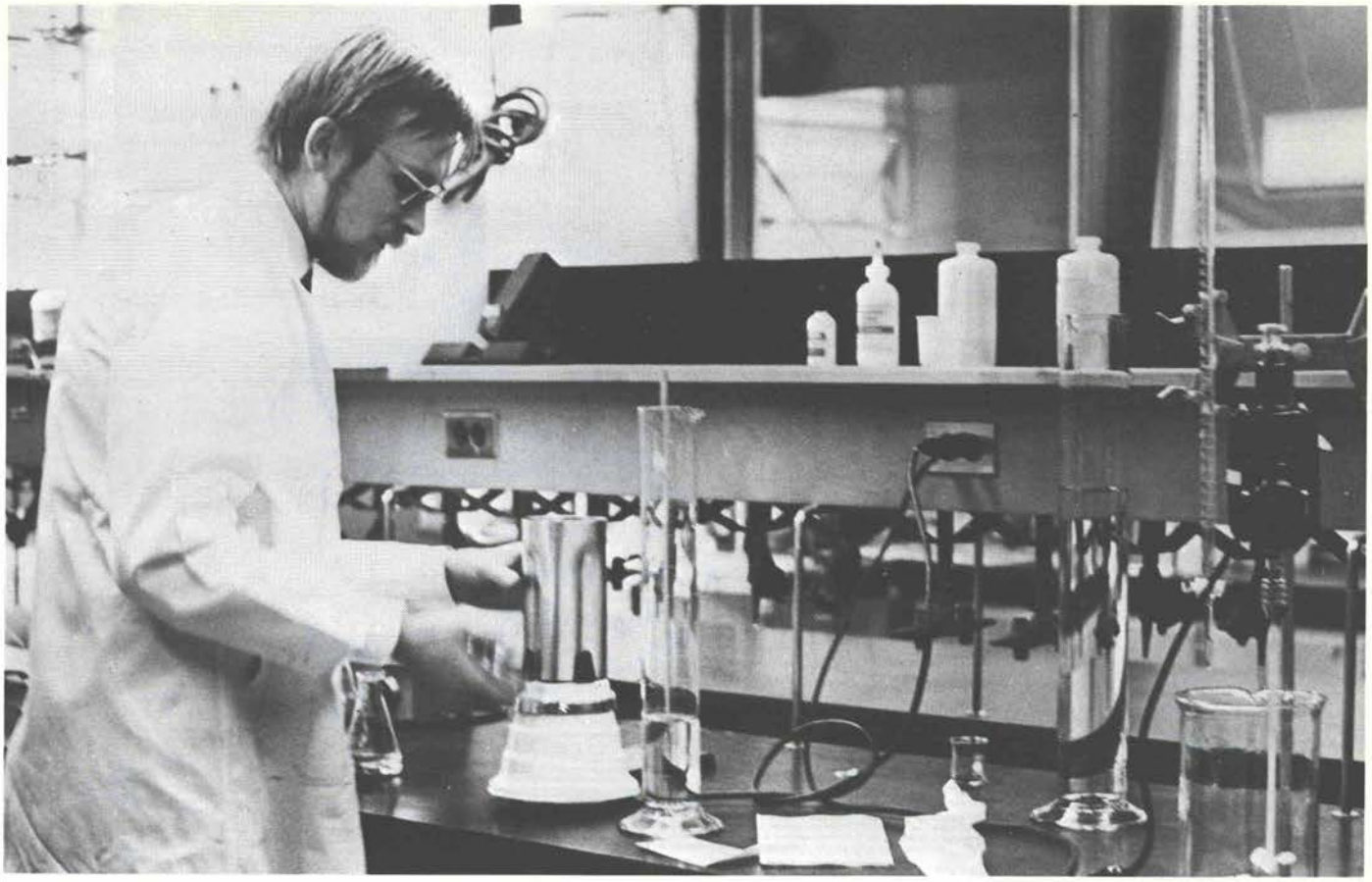
Owing to the application of new principles and techniques to the pulp, paper, newsprint, plywood, and particle-board industries, increasing numbers of highly skilled technical personnel are required. The objectives of the Forest Products Technology programme are to qualify technicians for the various manufacturing operations and prepare them for responsible positions within the industry.

In addition to basic sciences, subject areas include botany, dendrology, wood technology, saw milling, plywood manufacture, and pulp and paper production. This variety assists the student in selecting one of two options offered during second year.

The Wood Option includes the techniques and economics involved in harvesting wood and converting it to products such as lumber, laminated beams, plywood, and particle board. Wood seasoning and preservation, and fire-retardant treatments are also studied as well as the integration of the forest industries for maximum utilization.

The Pulp and Paper Option is concerned with the theory and practice of mechanical, chemical, and semi-chemical pulping, the bleaching of the various pulp types, and the conversion of the pulp to products such as newsprint, paper, paper products and textiles.

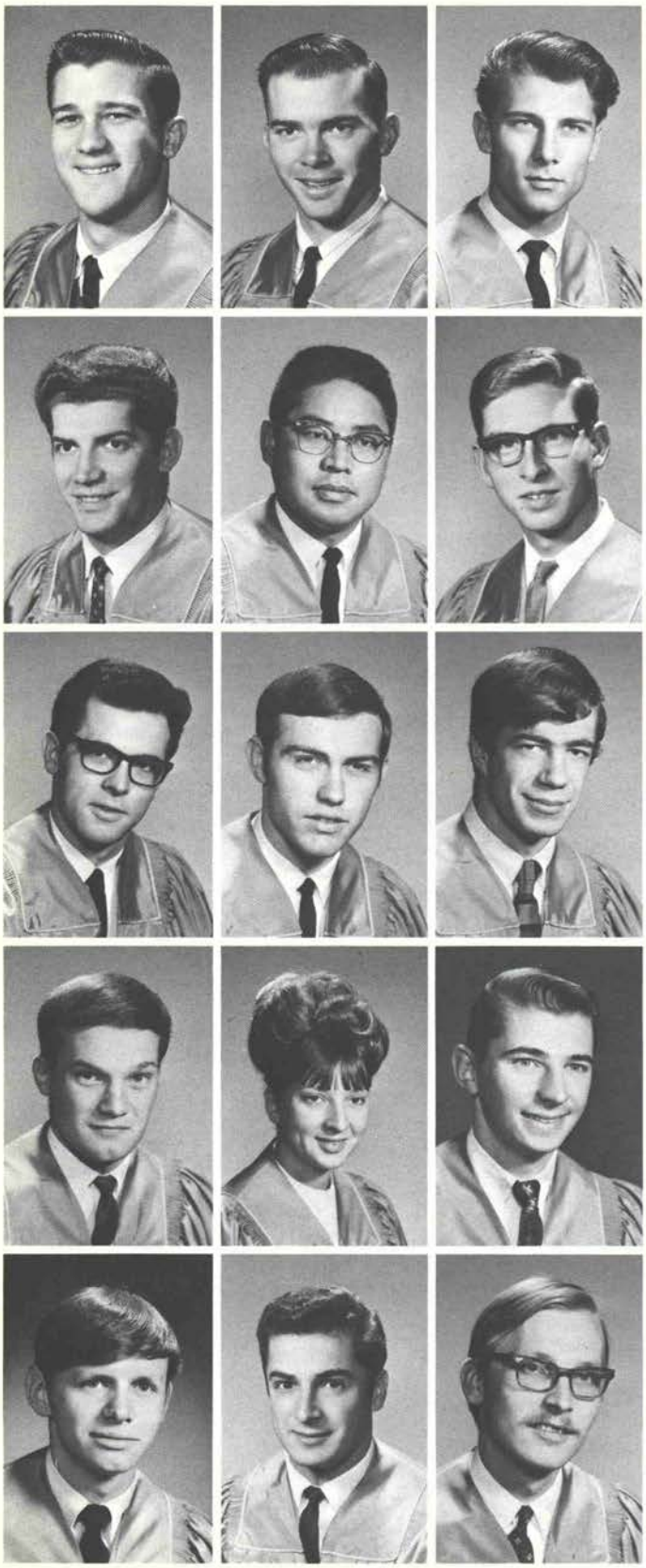
Laboratory and plant procedures required for product quality control are covered extensively in both options.



Lab session

Math Lab

# forest products



R.T. Bertram
*Ladysmith, B.C.*

D.E. Clay
*Vancouver, B.C.*

R.J. Coleman
*Haney, B.C.*

W.D. Ellis
*Sardis, B.C.*

B.M. Fujimura
*Greenwood, B.C.*

G.R. Garrod
*Campbell River, B.C.*

S. Gisborne
*Ladysmith, B.C.*

G.E. Hutton
*Duncan, B.C.*

R.D. Iverson
*Vancouver, B.C.*

R.R. Little
*North Vancouver, B.C.*

D.W. McAlpine
*Burnaby, B.C.*

R.W. Pederson
*New Westminster, B.C.*

T.M. Ritchie
*Vancouver, B.C.*

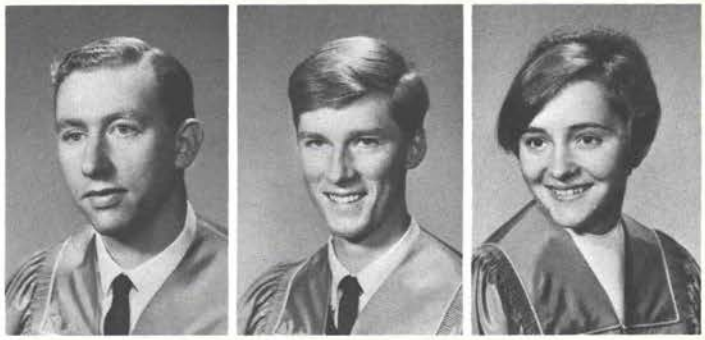
J.S. Sanzalone
*Vancouver, B.C.*

M.C. Schroter
*Vancouver, B.C.*

F.W. Tanner
*Nelson, B.C.*

J.R. Wild
*Surrey, B.C.*

M.G. Wilkinson
*Elko, B.C.*



Forest Products Lab

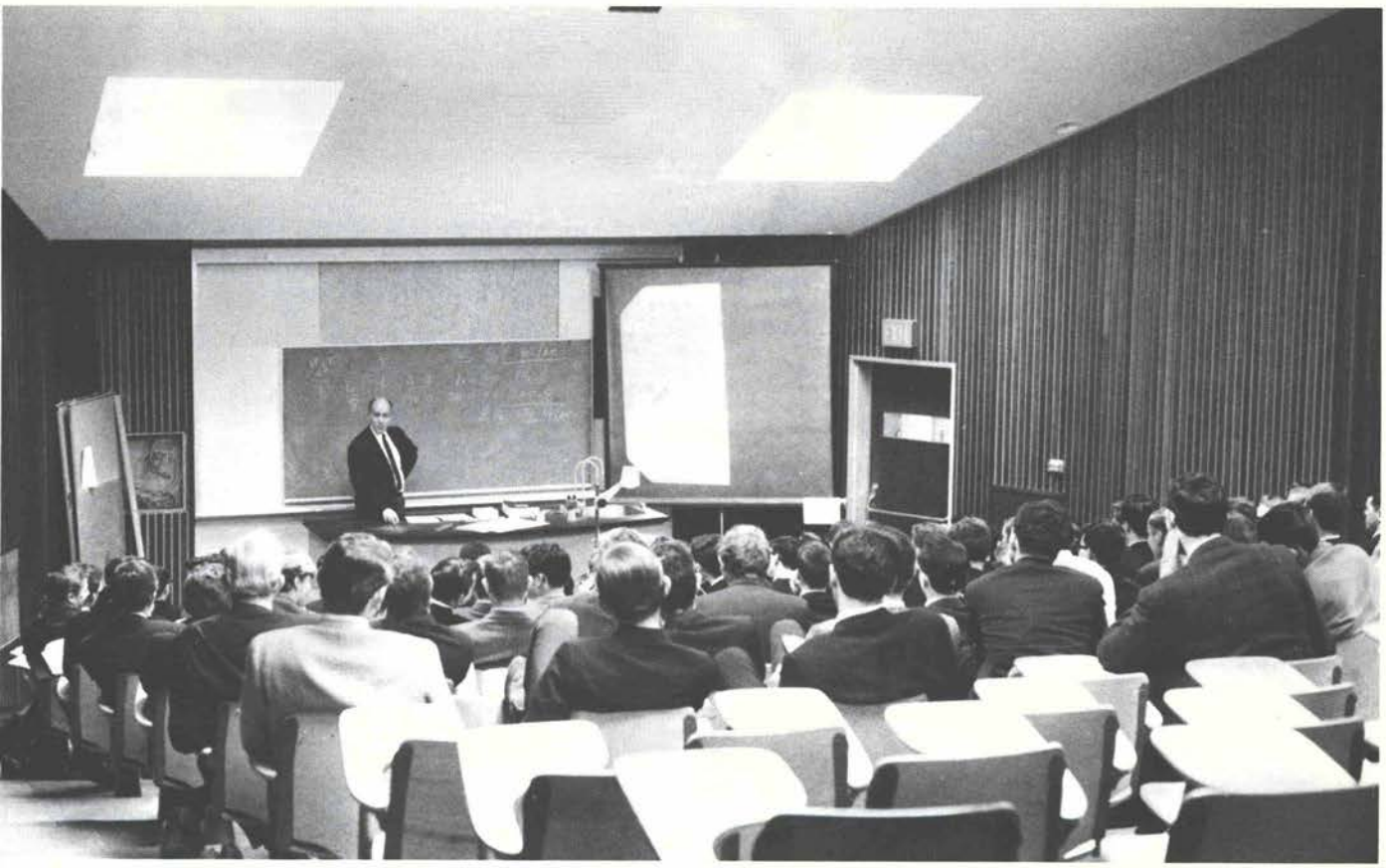
# forestry

Logging Lab

A tremendous expansion in the harvesting of timber products is creating demands for new techniques in logging, manufacturing, and reforestation. Thus, there is today a greatly increased demand for technically trained graduates in this industry.

Since many opportunities are available in forestry, a graduate can expect to qualify for several categories in this profession. In logging he will prepare and lay out setting plans and cutting boundaries, mark timber, survey and construct roads; in cruising and stand management he will cruise timber stands for inventory and logging development; in research he will study characteristics of trees and wood for a multiplicity of uses; in forest protection he will plan and direct programmes to minimize losses from fire, insects, and disease; in reforestation he will supervise regeneration surveys, planting or seeding, and nursery operations. In addition, technicians employed by public agencies will be engaged in scaling, protection, research, or inspection of logging or milling operations.

The Forest Technology programme will include such subjects as draughting, surveying, forest measurement, interpretation of aerial photographs, logging methods, and wood utilization. Advanced subjects include details of scaling and cruising, entomology, pathology, fire protection, silviculture, and forest management.



Mensuration Lecture

E.R. Abersek
*Burnaby, B.C.*

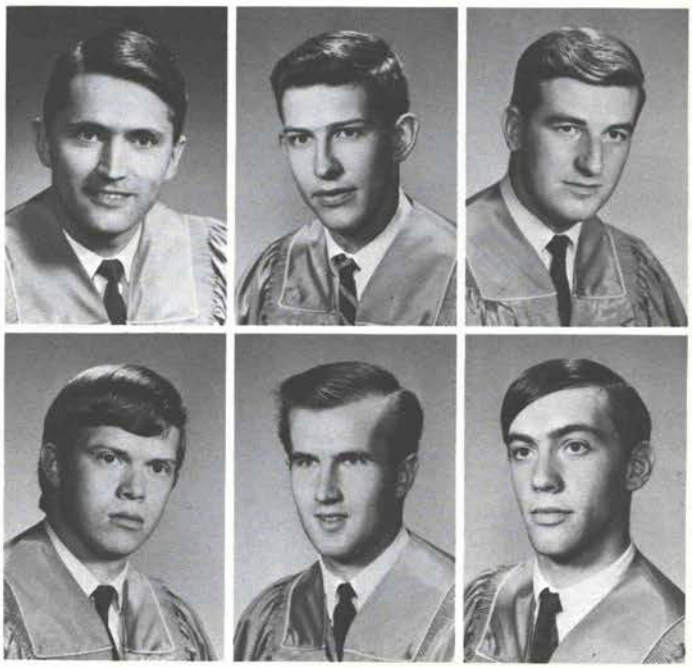
G.W. Anderson
*Alberni, B.C.*

R.E. Anderson
*Lake Cowichan, B.C.*

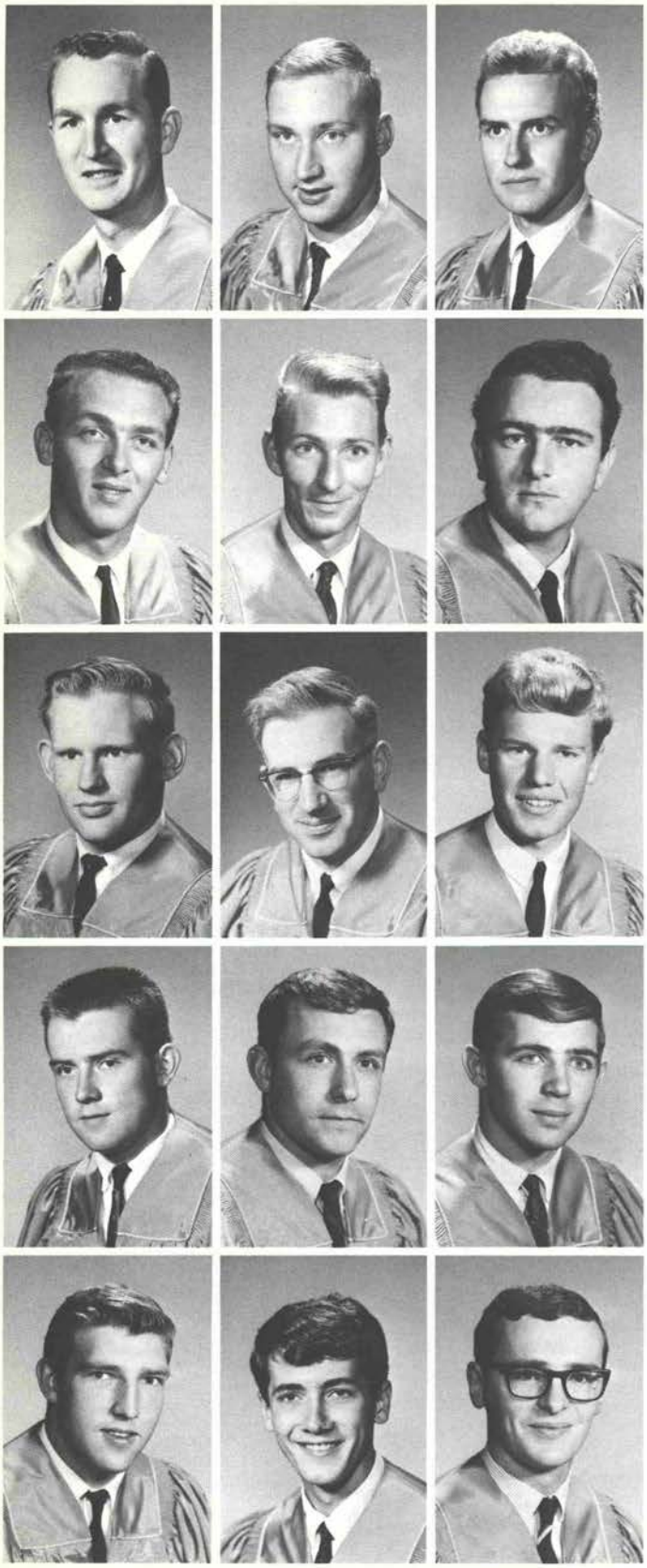
T.L. Anderson
*North Vancouver, B.C.*

E. Bentsen
*Lake Cowichan, B.C.*

G.A. Birchfield
*New Westminster, B.C.*



# forestry



L.J. Campbell
*Ashcroft, B.C.*

T.A. Carter
*Burnaby, B.C.*

R.W. Childs
*New Westminster, B.C.*

G.F. Crossley
*Osoyoos, B.C.*

W.A. Damstrom
*Jaffray, B.C.*

M.F. Downs
*Victoria, B.C.*

P.J. Elliot
*Burnaby, B.C.*

A.F. Farrer
*Burnaby, B.C.*

R.W. Friesen
*Mission City, B.C.*

K.M. Froehlich
*Burnaby, B.C.*

D.G. Groenhuysen
*Silverton, B.C.*

G.B. Harmer
*Burnaby, B.C.*

E. Holt
*Houston, B.C.*

D.C. Jones
*Burnaby, B.C.*

B.E. Kennedy
*New Westminster, B.C.*

A.W. Klassen
*Abbotsford, B.C.*

H.P. Koot
*Surrey, B.C.*

W. Le Blanc
*Burnaby, B.C.*

D.H. Pierce
*Campbell River, B.C.*

M.J. Rooney
*Burnaby, B.C.*

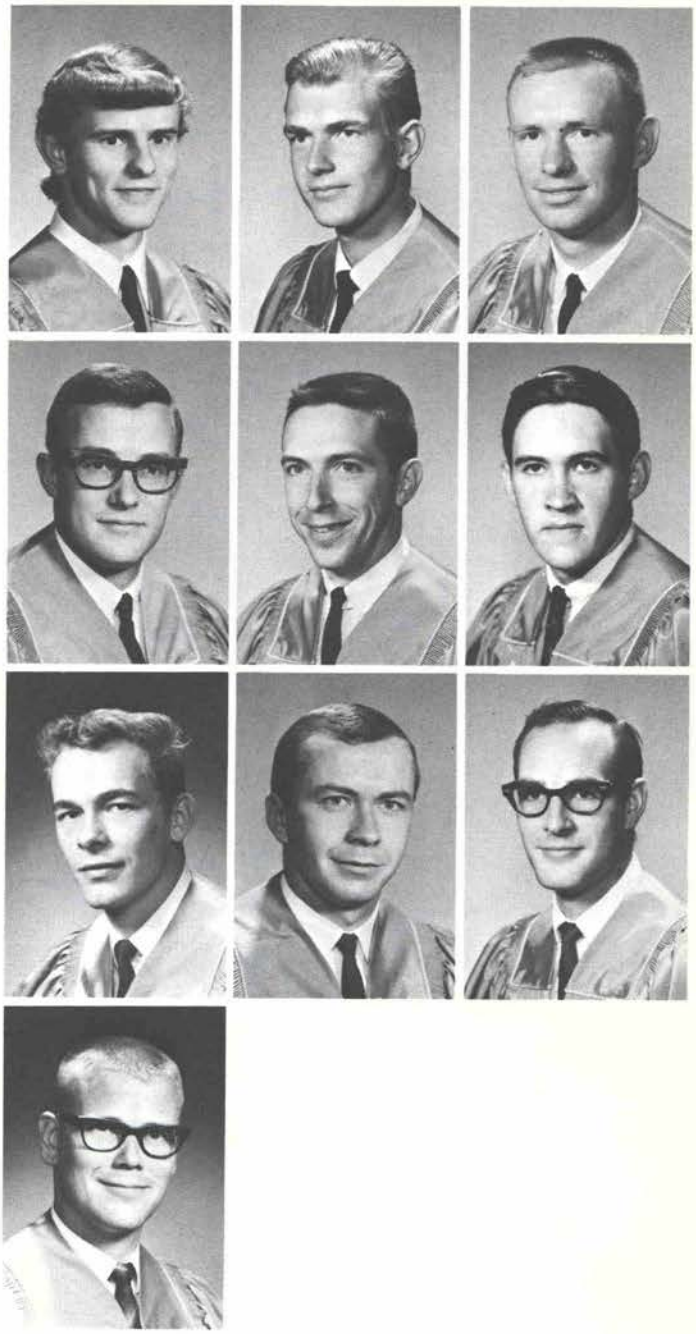
G.C. Slack
*Hatzic, B.C.*

J.A. Spinks
*Cowichan Station, B.C.*

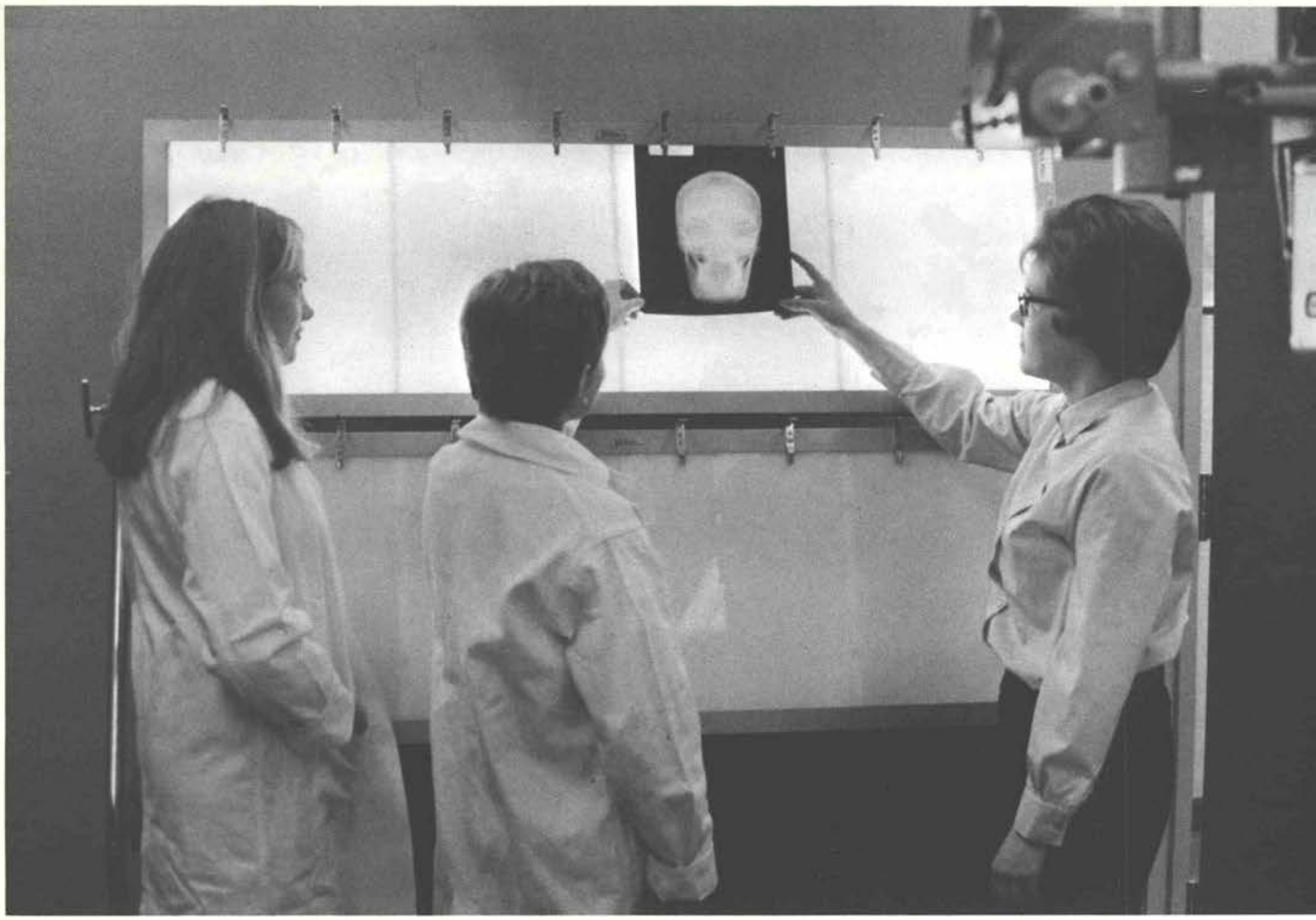
M.J. Thompson
*Burnaby, B.C.*

G.B. Thornton
*New Westminster, B.C.*

E.A. Vennberg
*Victoria, B.C.*



# health



Medical Radiography

The rising demand for health services, together with the increasingly complex scientific and social aspects of such services is opening up new and challenging opportunities for a wide range of specialized health technologists.

The Health Technology training programme, developed with the advice and counsel of leaders in the health sciences, and operated in conjunction with health facilities within the community, aims to produce technologists at a level of training and education suited to the need. The training in the specific areas of choice will be sufficiently detailed to provide the skills necessary to the specialty.

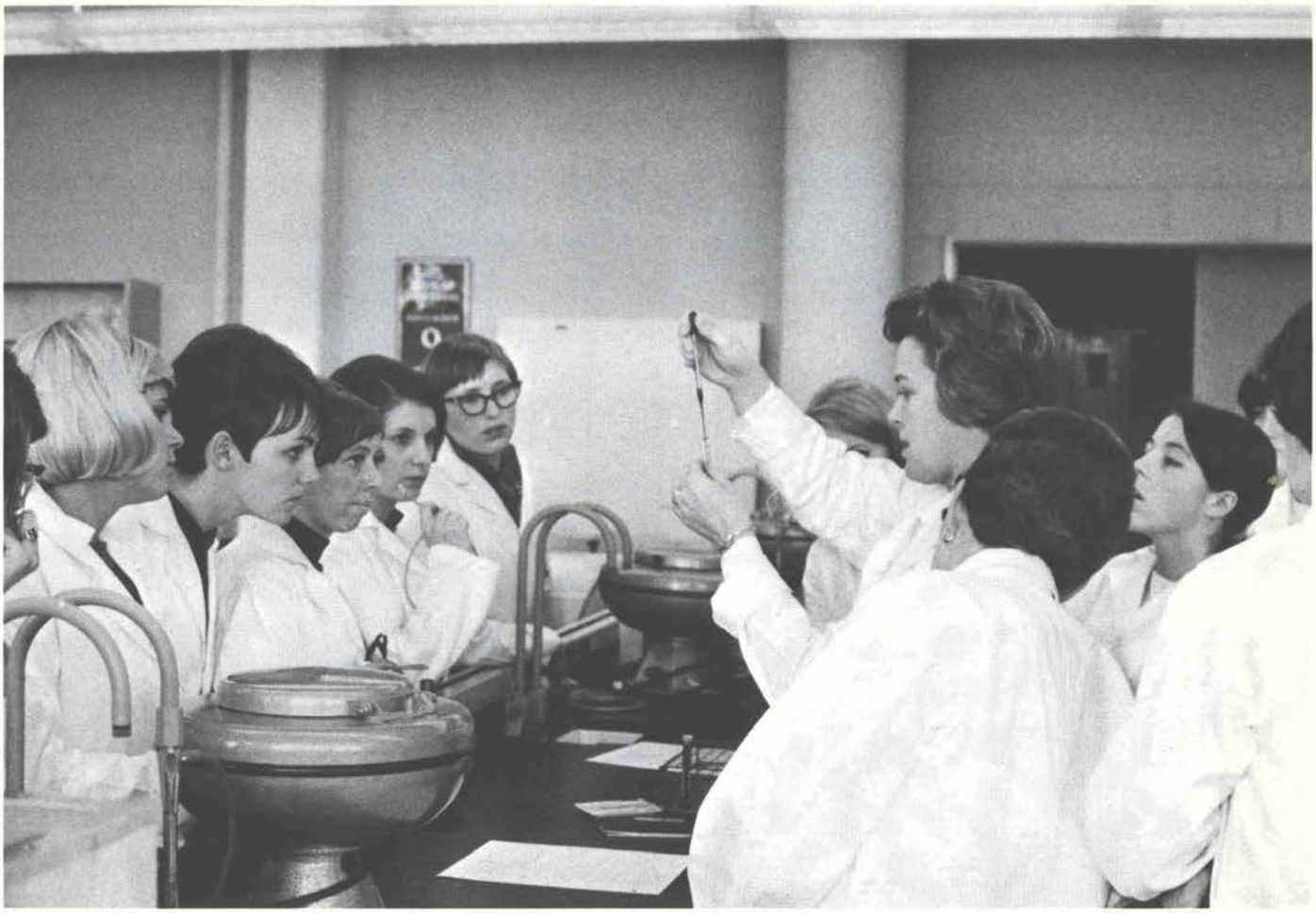
Seven Options are offered in the Health Technology programme:

Biomedical

In recent years there has been a growing demand for skilled professionals who have been trained in both medicine and engineering. The development of artificial kidneys, hearts, blood vessels, and the many other complicated engineering structures for service in the human body has called for a unique combination of interests and aptitudes on the part of these responsible for their design.

Health Information

Society is becoming increasingly concerned with the need to process vast quantities of information. In the health field this is especially true. Information regarding the state of health of an individual and of a community must be collected, arranged into meaningful forms, analyzed, and acted upon. To do this requires technologists trained in the procedures of health data processing and capable of communicating in a professional and technical language with other health workers. Many of the process-



Med Lab in a Haematology Lab.

ing procedures are at present quite sophisticated and will become more so in the years ahead.

Medical Isotope

The advent of the nuclear reactor with its ability to produce artificial radioactive isoptopes in quantity has made possible a widely increasing use of the materials in medical research, diagnosis, and therapy. This field of medicine, relatively unknown a decade ago, is now on the threshold of major developments. Special subjects relevant to isotope technology are studies in the Institute's isotope laboratory.

Medical Laboratory

Medical Laboratory Technology offers a variety of scientific pursuits within the modern hospital and private clinical laboratory. These fields include histo-pathology, clinical chemistry, haematology, microbiology, and immuno-haematology. Laboratory screening programmes are being developed to alert the physician to disease processes which, though not yet clinically evident, are present in a patient. Automation, instead of lessening the need for the medical laboratory technologist, has created a demand for more highly trained professional personnel.

Medical Radiography

Advances in science and technology are affecting the medical radiographer to a greater degree every day. To meet the demand for this type of skilled personnel, the B.C. Institute of Technology offers training for the medical radiographer which will keep him abreast of these advances and in step with the latest in the modern medical world.

Nursing


Take our picture! You're kidding--

It has been considered by many prominent nursing educators that a nursing educational programme conducted as part of a broader Health Technology would have many advantages.

As in the other Health Technology options, the Nursing student will spend a considerable part of the first year in the study of those basic sciences necessary to provide a background for further, more specialized work.

The nursing courses will be devoted to clinical applications of nursing theory and will include medical, surgical, obstetric, paediatric, and psychiatric nursing.

Public Health

Modern society is presenting increasing problems in number and magnitude which influence the health of people. Within the broad field of health it is the concern of the public health technologist to measure and control those problems in the community which are associated with environmental hazards. Responsibility, once confined to infectious disease and the more common environmental hazards has now extended to the hazards of pollution of air, land, and water and the many toxic and safety hazards which arise in industrial, agricultural, and urban society.

A well-balanced curriculum of lecture, laboratory, and field experience provides the graduate with a thorough knowledge of environmental hazards and their effect on human individuals and populations.

Health Information Option students in an Information Processing Lab

Medical Isotope students during a Physics Lab

# hotel, motel & restaurant

Boy! Could I use one of those.

**Practicing that smile.**

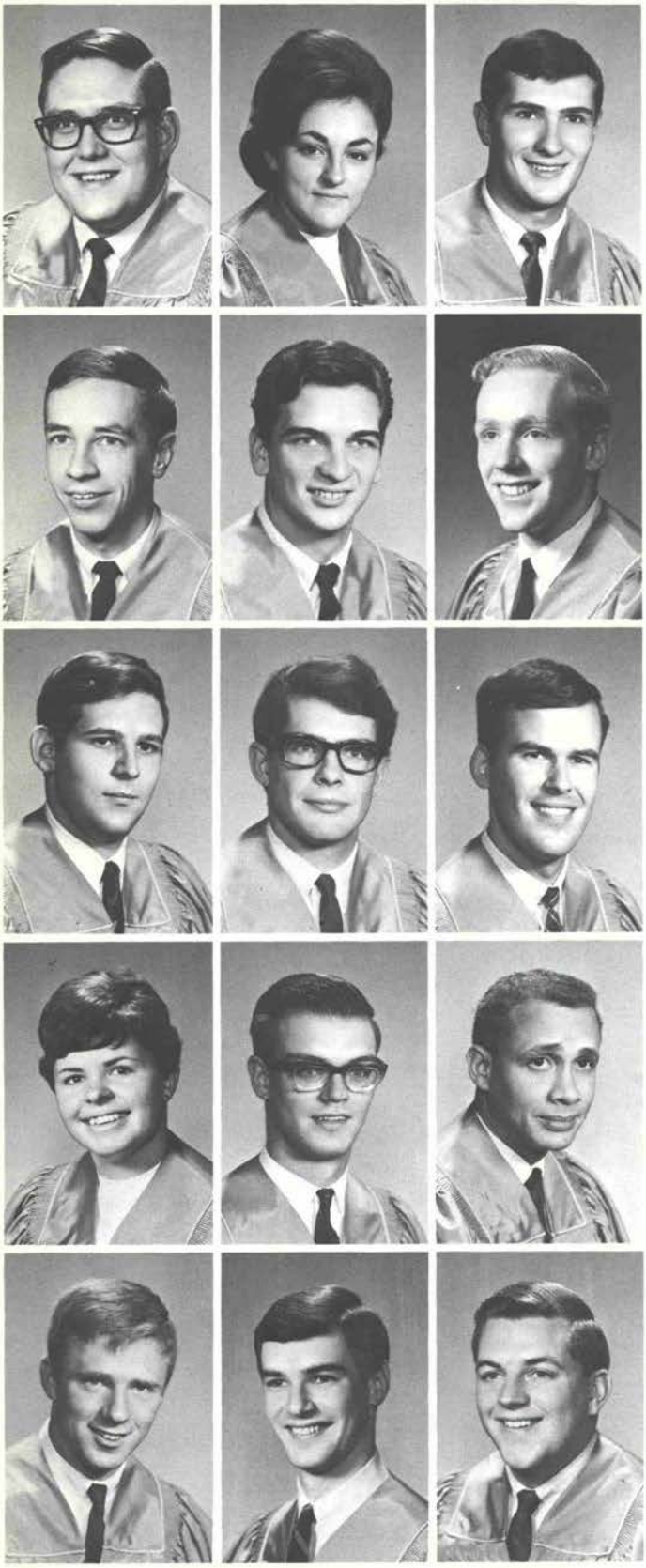
Every hotel, motel, and restaurant must be staffed by well trained managers and employees to serve the tourist trade and travelling public. The present demand for qualified administrative personnel exceeds the supply and the "hospitality" industry is in a state of rapid expansion. The need is for well trained managers with the ability to look ahead and plan – with the flexibility of mind to adapt to rapidly changing conditions. This is the challenge of a billion dollar industry.

In the 2-year programme, students obtain intensive theoretical and practical training not only in business procedures, but also in every aspect of hotel or restaurant operations: front office and housekeeping; general and departmental controls and accounting; purchasing, receiving, and storing of hotel supplies: preparation and serving of food and beverages; maintenance and engineering; planning and design; advertising and promotion; and human relations. The hotel and restaurant laboratory area of the Institute is outfitted with fully furnished typical hotel and motel rooms, a lobby and lounge, and a front desk equipped with the latest billing and audit machines.

Just relaxing!

Working in the Staff Dining Room.

# hotel, motel & restaurant



R.D. Aardal
*Vancouver, B.C.*

J.L. Berger
*West Vancouver, B.C.*

F.J. Beruschi
*Revelstoke, B.C.*

D.R. Carter
*Richmond, B.C.*

B.T. Cassidy
*North Vancouver, B.C.*

M.G. Crum
*Campbell River, B.C.*

B. Eisenstein
*Vancouver, B.C.*

I.H. Else
*Burnaby, B.C.*

R.E. Forrester
*Hamilton, Ontario*

C.M. Fryer
*Burnaby, B.C.*

L.E. Haines
*Campbell River, B.C.*

E.L. Hassell
*Vancouver, B.C.*

R.B. Helter
*North Vancouver, B.C.*

L.M. Hendren
*Richmond, B.C.*

J.M. Jennings
*Burnaby, B.C.*

J.J. Ladicos
*Pitt Meadows, B.C.*

B.A. McDonald
*Vancouver, B.C.*

D.B. McNeil
*Vedder Crossing, B.C.*

W.R. Moffatt
*Richmond, B.C.*

S.M. Nijdam
*Vancouver, B.C.*

P.F. Renner
*Weston, Ontario*

D.M. Richards
*Vancouver, B.C.*

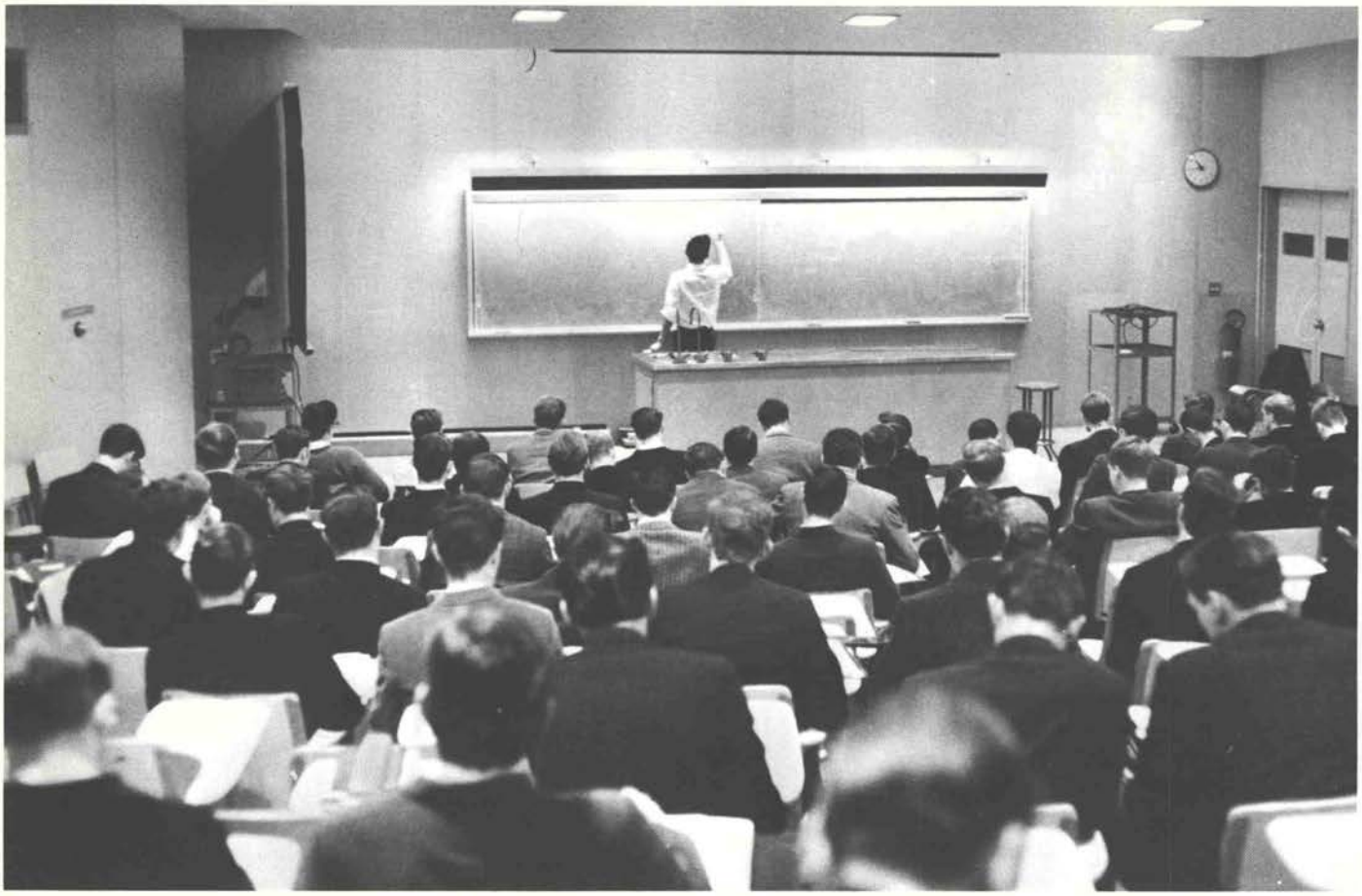
S.E. Rosenberg
*Surrey, B.C.*

J.A. Rushworth
*Surrey, B.C.*

W.H. Rushworth
*Surrey, B.C.*

H. Uittenhout
*Burnaby, B.C.*

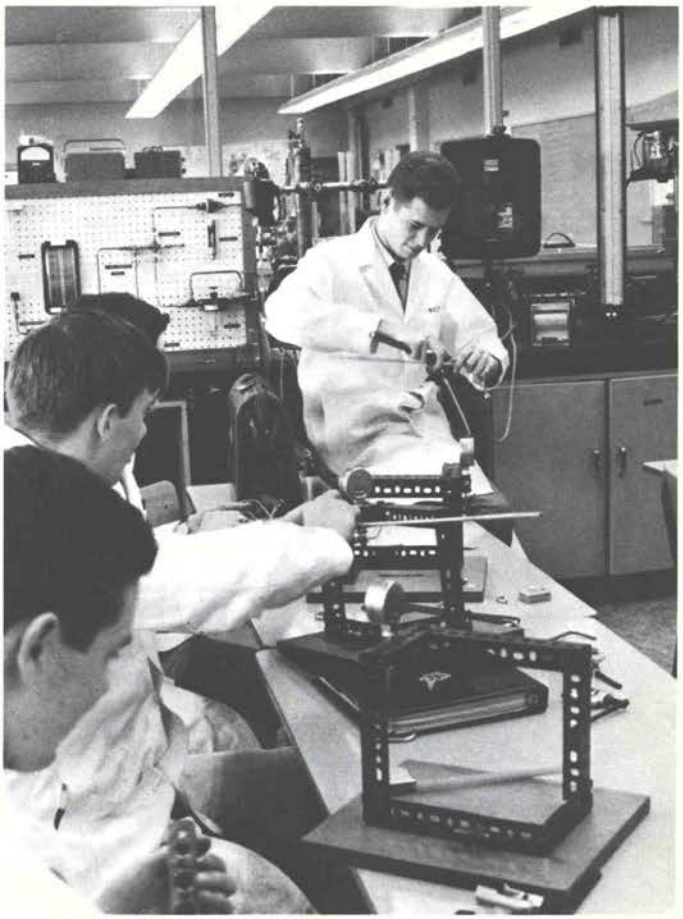
# instrumentation & control



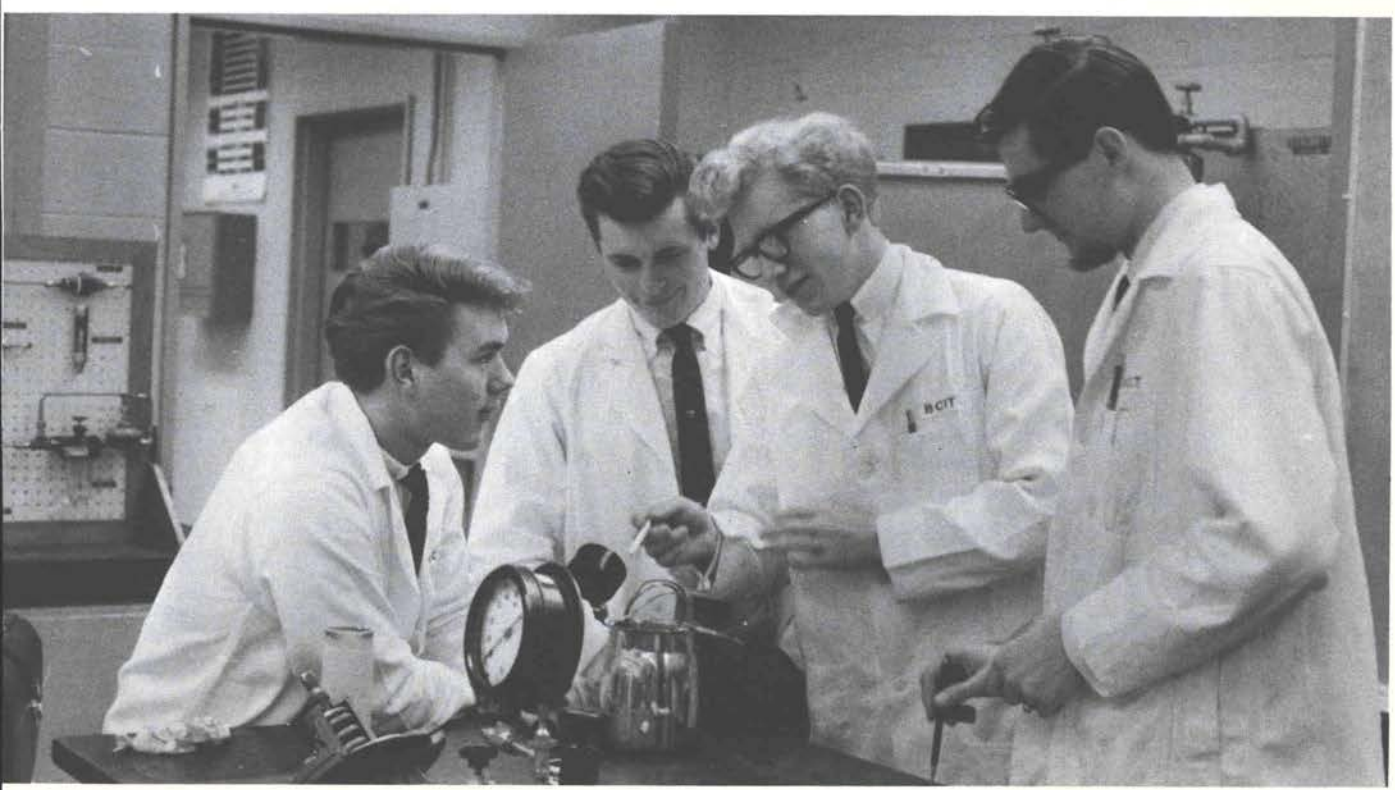
Chemistry Lecture

Modern high-output production processes demand precise control of operating conditions in order to achieve satisfactory product quality at minimum cost. Industrial instrumentation provides a measurement of these operating conditions. The installation and maintenance of measuring and automatic control devices are the functions of the instrumentation and control technician. The equipment utilizes electronic, pneumatic, and hydraulic principles and is common to many industries such as oil and gas production and refining, pulp and paper production, atomic power-plant operation, plastics manufacture, food-processing, chemical-plant operation, primary metals processing, and so forth. In these industries as much as twenty percent of the capital cost may be accounted for by instrumentation, and this proportion is constantly rising as industrial processes become more complex.

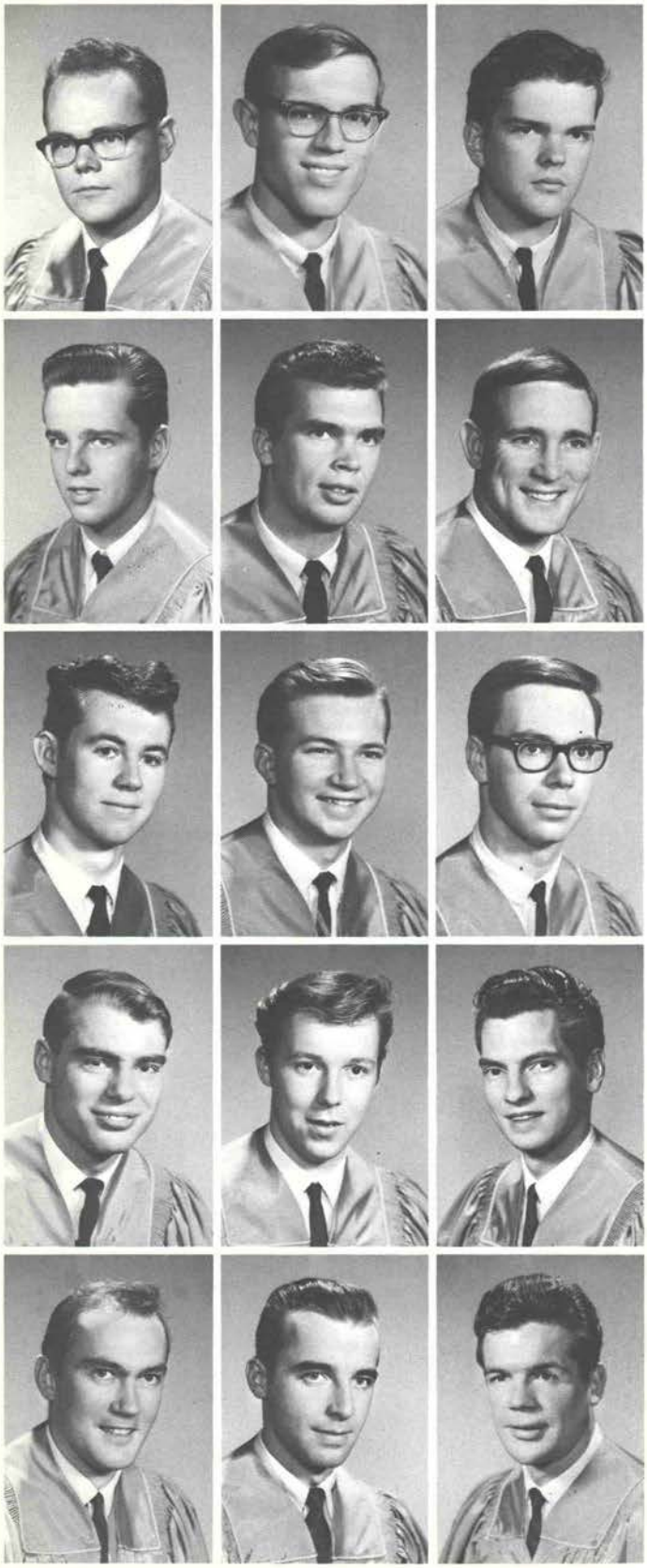
Students at the Institute's laboratories study the basic scientific and engineering principles used in design and application of measuring instruments. Pressure, temperature, flow and level. These are the variables most often controlled in industrial processes, and a wide variety of techniques is used for their measurement. Complex commercial equipment is studied, particularly modern electronic instruments, as well as the principles and practical applications of automatic control. Modern techniques such as telemetering and application of computers is also closely investigated.



Shop Practice



# instrumentation & control



S.M. Anderson
*Burnaby, B.C.*

R.L. Bysouth
*Vedder Crossing, B.C.*

W.R. Davis
*Victoria, B.C.*

E.R. Ferrero
*Prince George, B.C.*

W.D. Green
*Ladner, B.C.*

R.E. Gwynne
*Townsville, Australia*

G.P. Harrison
*Royston, B.C.*

J.M. Jeffrey
*Vancouver, B.C.*

K.M. Johnstone
*Piapot, Saskatchewan*

I.P. Lendrum
*Victoria, B.C.*

A.G. McFarlane
*Vancouver, B.C.*

J.B. McNaughton
*Richmond, B.C.*

A.M. Maughan
*North Vancouver, B.C.*

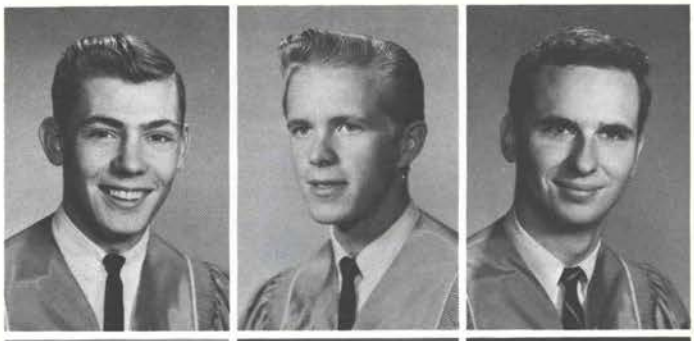
E.W. Moffet
*Vancouver, B.C.*

C.R. Muters
*Vancouver, B.C.*

K.A. Netzel
*Surrey, B.C.*

H.R. Olsen
*Gibsons, B.C.*

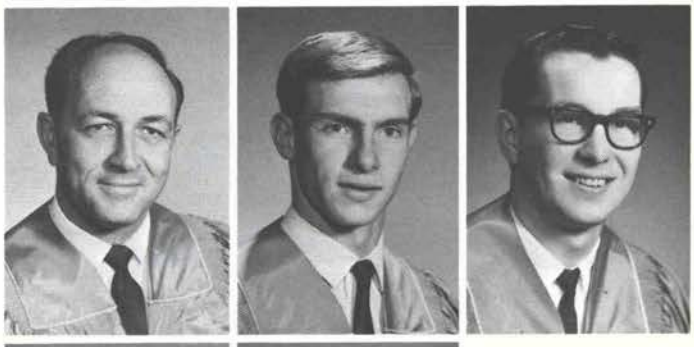
L.R. Ramsden
*Vancouver, B.C.*



W.R. Runge
*New Westminster, B.C.*

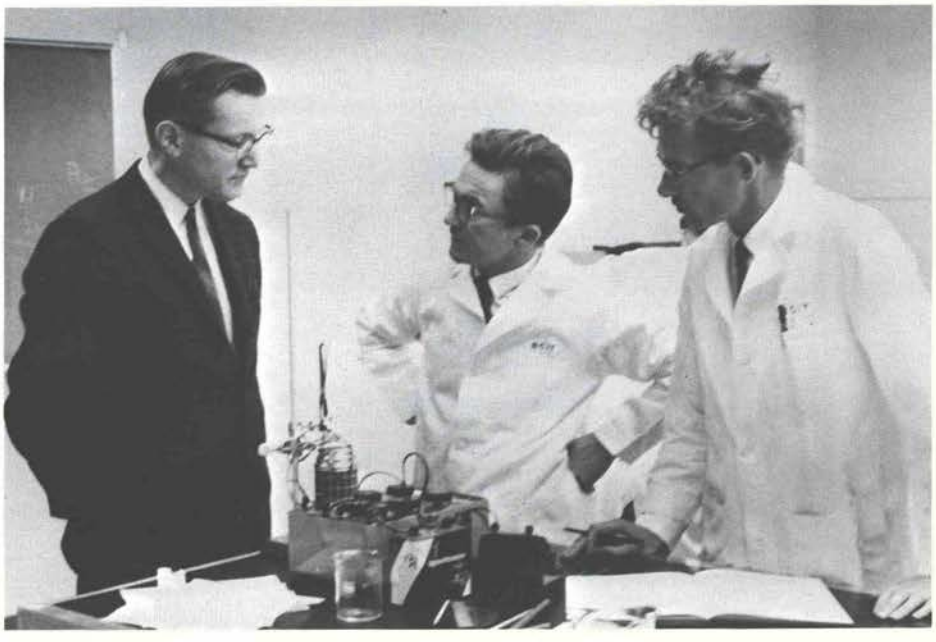
K.A. Strachan
*Nanaimo, B.C.*

T.D. Tylosky
*Fort St. John, B.C.*



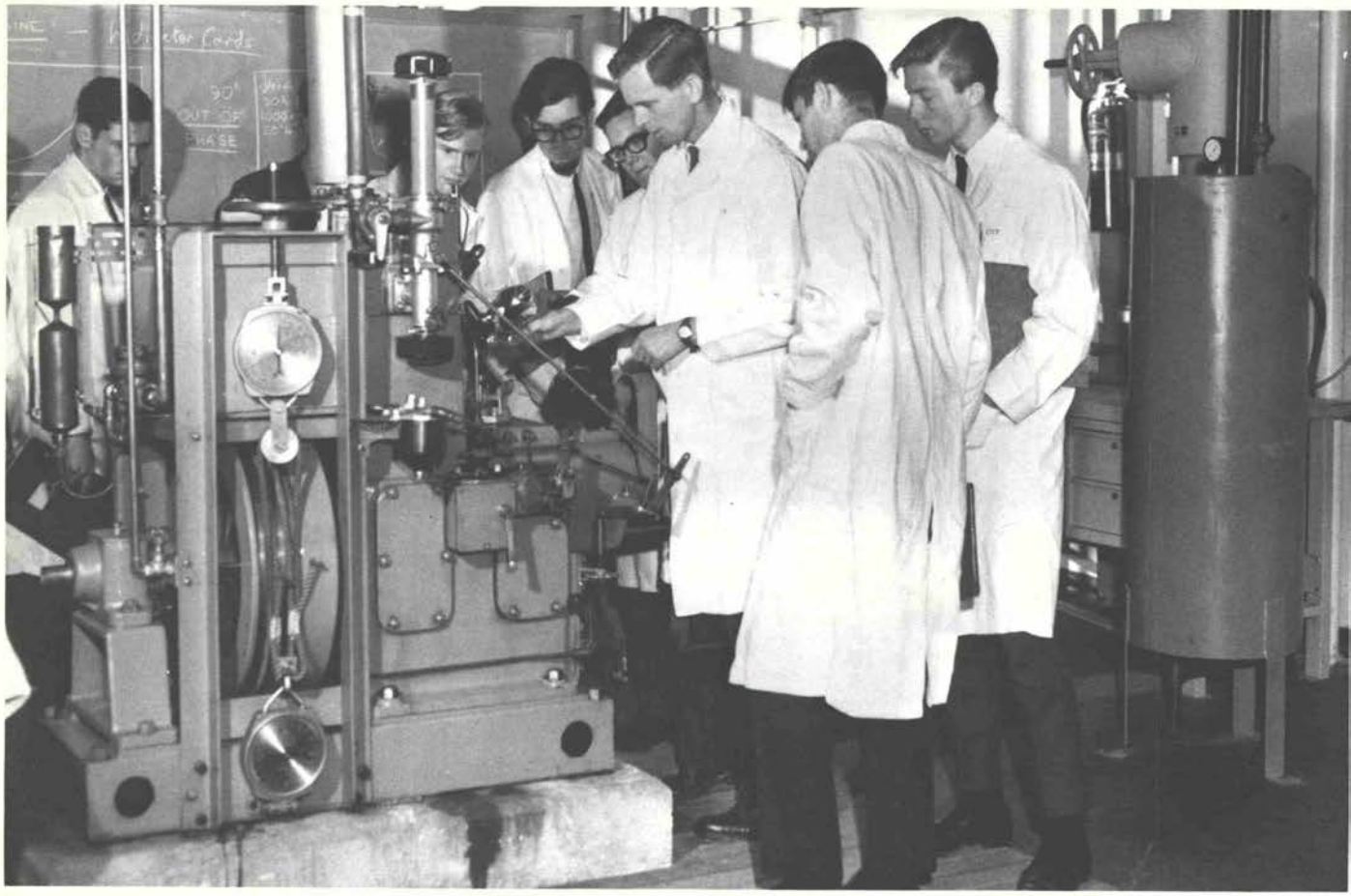
D.H. Walter
*Port Alberni, B.C.*

G.J. Wolfe
*Surrey, B.C.*



Physics Lab

# mechanical



Machine Tool Theory Lecture

Shopwork

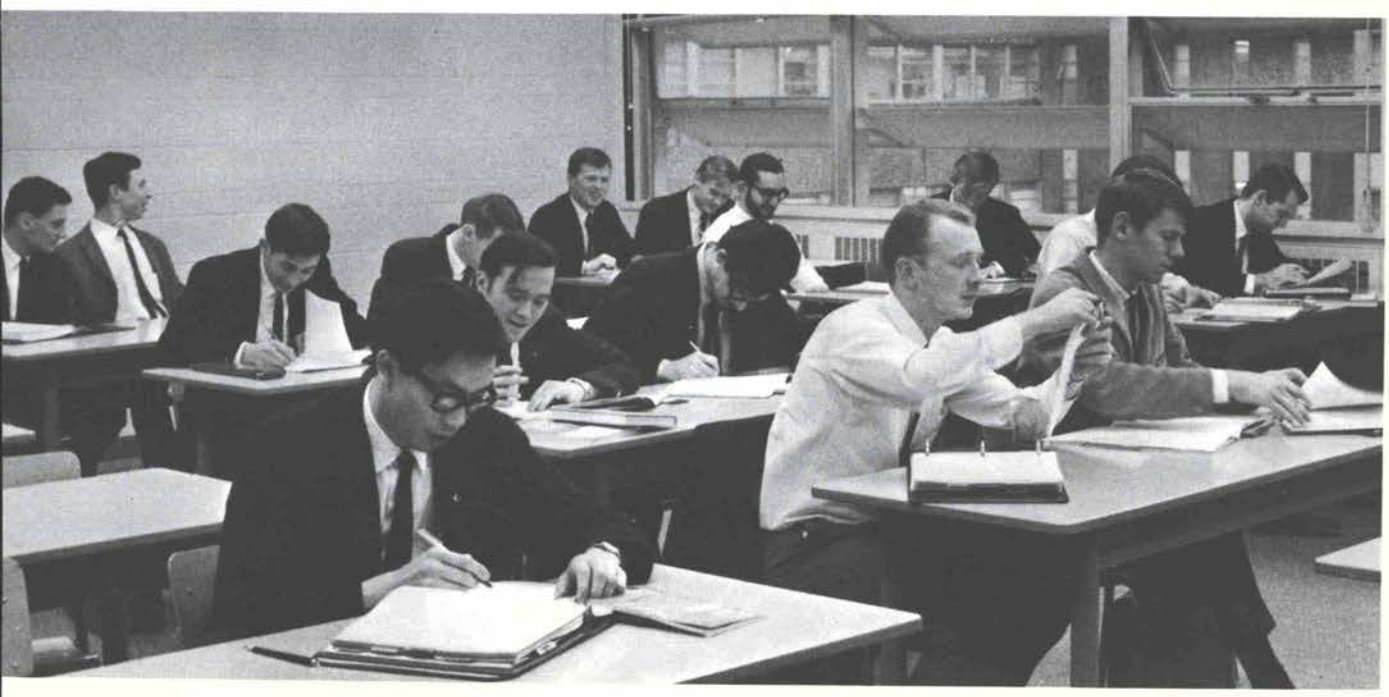
Mechanical Technology encompasses an extremely broad range of industrial activities involving design, construction, installation, and use of machines and mechanical devices of all types.

The intensive two-year programme includes studies in mathematics and physics plus specialized subjects such as engineering materials, draughting, strength of materials, machine design, business, thermodynamics, electricity, and machine tools. Theory presented in lectures is directly applied in excellently equipped laboratories and shops. In the thermodynamics laboratory, for example, students operate and test steam boilers, air compressors, steam turbines, a gas turbine, and dual-fuel engine.

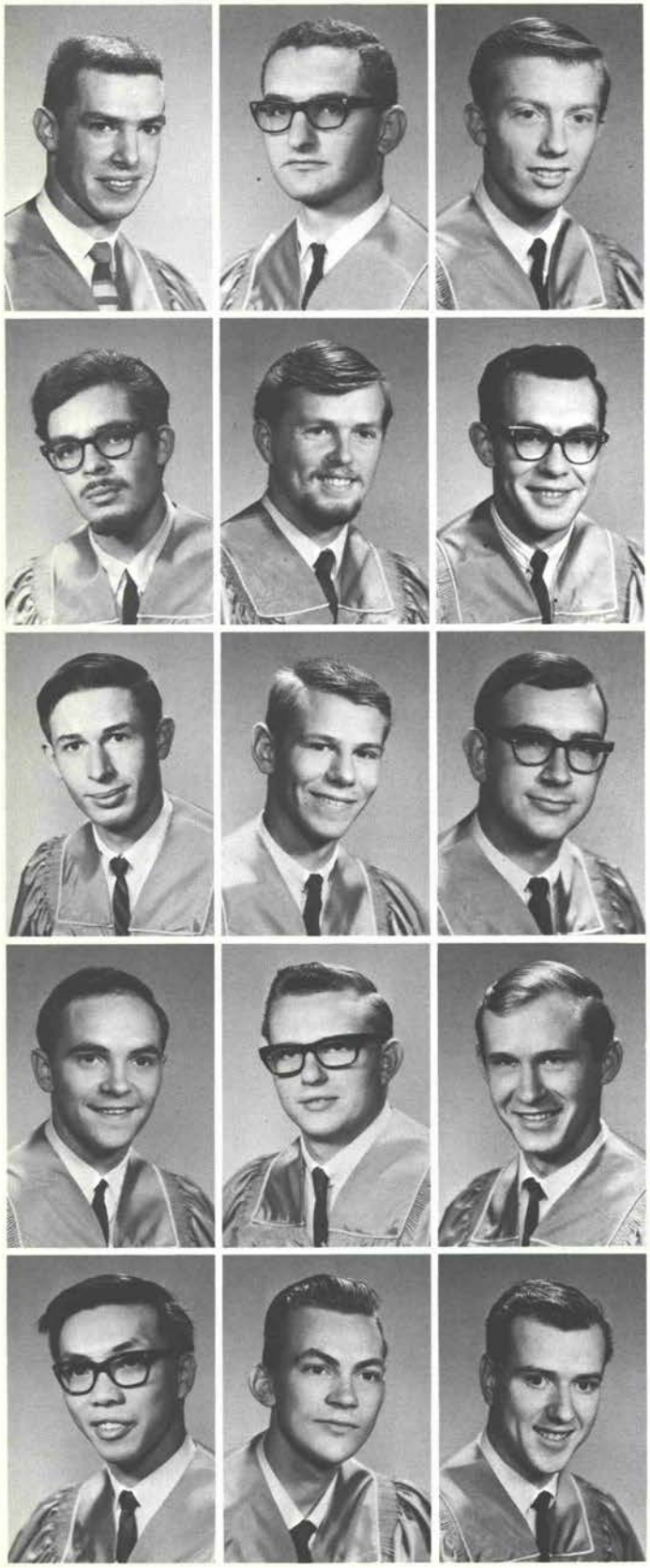
Field trips are made to augment Institute studies and are made to industrial plants to observe practical installations and operations. Close leason with industry ensures that graduates are trained to meet the exacting and varying requirements of industry.

Operating a milling machine

Math Lecture



# mechanical



R.V. Arnold
*Burnaby, B.C.*

R.R. Bigio
*Vancouver, B.C.*

D.T. Bligh
*Burnaby, B.C.*

B.A. Boswell
*Vancouver, B.C.*

L.G. Brown
*Nanaimo, B.C.*

J.D. Cushman
*Capreol, Ontario*

J.F. Dickson
*Burnaby, B.C.*

N.S. Glover
*Vancouver, B.C.*

C.J. Greenhill
*Vancouver, B.C.*

G.F. Janze
*Surrey, B.C.*

A.B. Jensen
*Vancouver, B.C.*

E.P. Kalaman
*Aldergrove, B.C.*

W. Leung
*Cumberland, B.C.*

R.W. Lindsay
*Nanaimo, B.C.*

L.R. Lowry
*Wellington, B.C.*

M.W. MacLachlan
*Richmond, B.C.*

W.R. Murray
*Burnaby, B.C.*

K.A. Paton
*Victoria, B.C.*

R.E. Rohachuk
*New Westminster, B.C.*

M.B. Scott
*Nanaimo, B.C.*

J.F. Shaneman
*West Vancouver, B.C.*

D.G. Simmie
*Vancouver, B.C.*

H.W. Spielman
*Coquitlam, B.C.*

J.R. Stuart
*North Vancouver, B.C.*

R.J. Webber
*Vancouver, B.C.*

R.F. Wilson
*Vancouver, B.C.*

W.H. Wilson
*Duncan, B.C.*

# mining

Structural Geology La

Assaying - Drawing samples

Mother Nature has richly bestowed the lands of Canada and British Columbia with such metals as iron, asbestos, lead, nickel, silver, and zinc. Exploration in British Columbia and the Yukon is more active than anywhere in North America, and the area is considered to be the most promising mineral-bearing region on the continent. Also, the industry is becoming much more reliant upon engineering imagination and technological skill.

Students completing this programme help serve the industry as exploration assistants mapping structure, logging drill core, performing geophysical and geochemical tests in the field; as engineering assistants sampling developed rock, surveying in pits or underground, or doing production control work in mines; as test laboratory technicians, assayers, and as operating staff in mineral processing plants.

C.I. Britch
*Merritt, B.C.*

L.D. Kornze
*Kelowna, B.C.*

H.A. Maynard
*Penticton, B.C.*

W.J. Mullin
*Princeton, B.C.*

W.P. Nickel
*Vancouver, B.C.*

G.R. Peake
*Kamloops, B.C.*

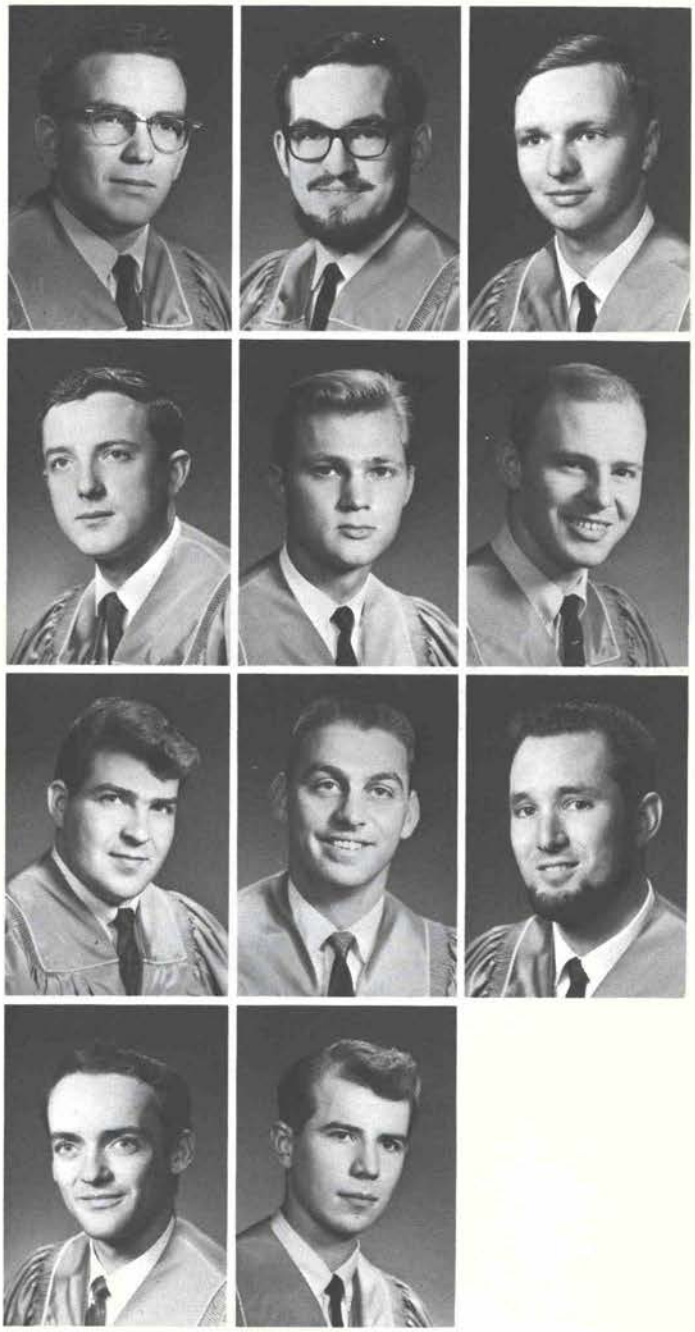
J.G. Powers
*North Vancouver, B.C.*

P. Rossbacher
*Burnaby, B.C.*

A.R. Sharp
*Penticton, B.C.*

L.J. Tribe
*Penticton, B.C.*

J.P. Westman
*North Vancouver, B.C.*



# natural gas & petroleum

Multiple Effect Evaporator

Inspecting a Turbine Flow Meter

Examining a Natural Gas Odour Tester

The Natural Gas and Petroleum Industry is one of the most modern and up-to-date, and is constantly introducing the latest technological improvements.

Students of the programme at the Institute cover primarily basic scientific and engineering principles and practices as a foundation for the subsequent specialized petrochemical training. Distribution and utilization of gas in both industrial and domestic fields is studied in depth and there is considerable emphasis on measurement and automatic control.

Transmission of oil and its utilization in modern automatically controlled refineries, with emphasis on the chemistry of petroleum products, is augmented with studies in business practices and computer programming.

R.D. Berg
*Vancouver, B.C.*

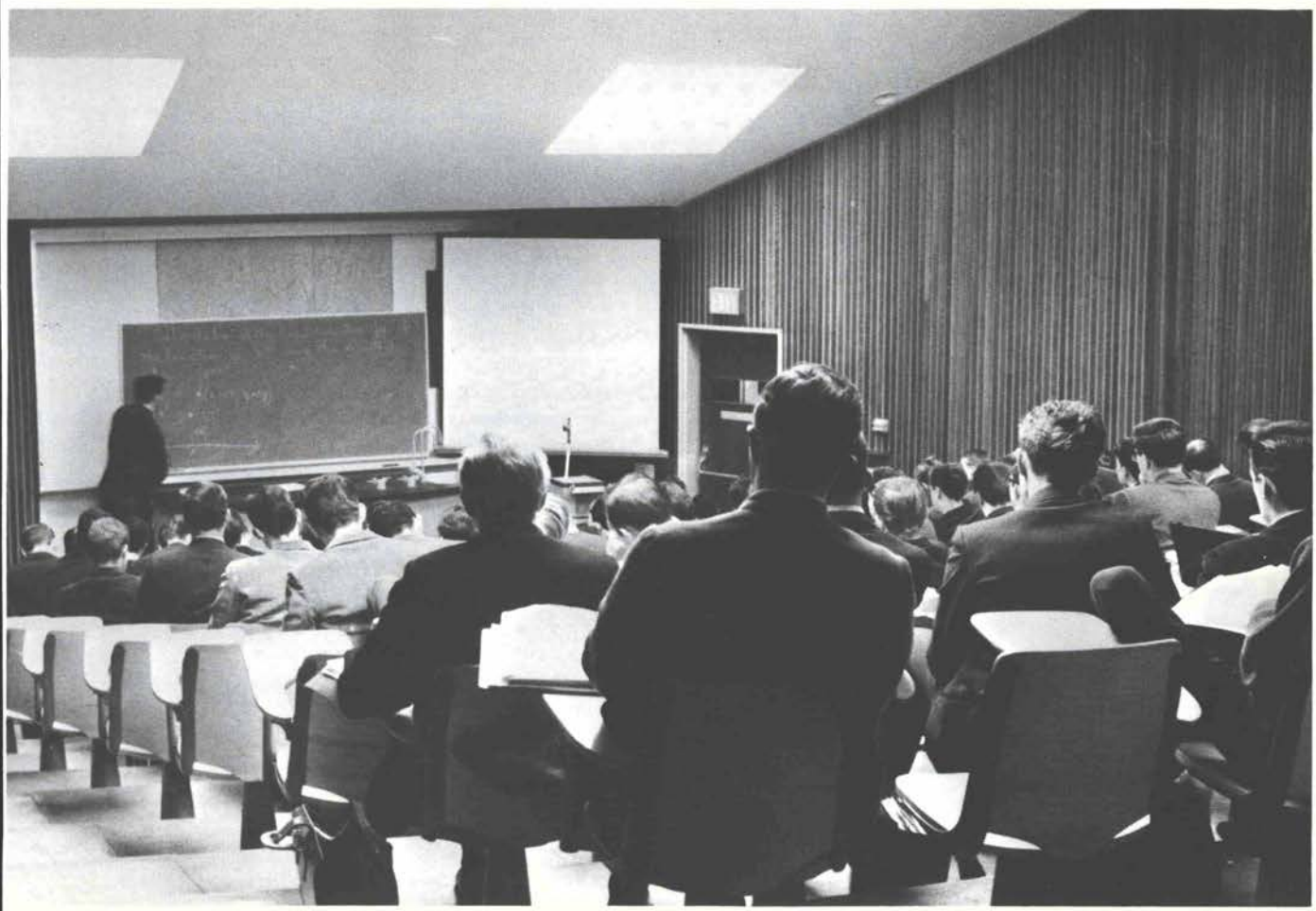
K.B. Jarvis
*Vancouver, B.C.*

W.M. Moffat
*Vancouver, B.C.*

F.S. Potoma
*North Surrey, B.C.*

W.S. Van Der Poll
*Vancouver, B.C.*

Math Lecture



# surveying

Surveying at work in the field.

Survey techniques have undergone radical changes during the last two decades, due largely to advances in the development of electronic devices which are capable of measuring distances up to forty miles with an accuracy of three parts per million, and significant refinements which have been made in photographic equipment and their applications to aerial photogrammetry.

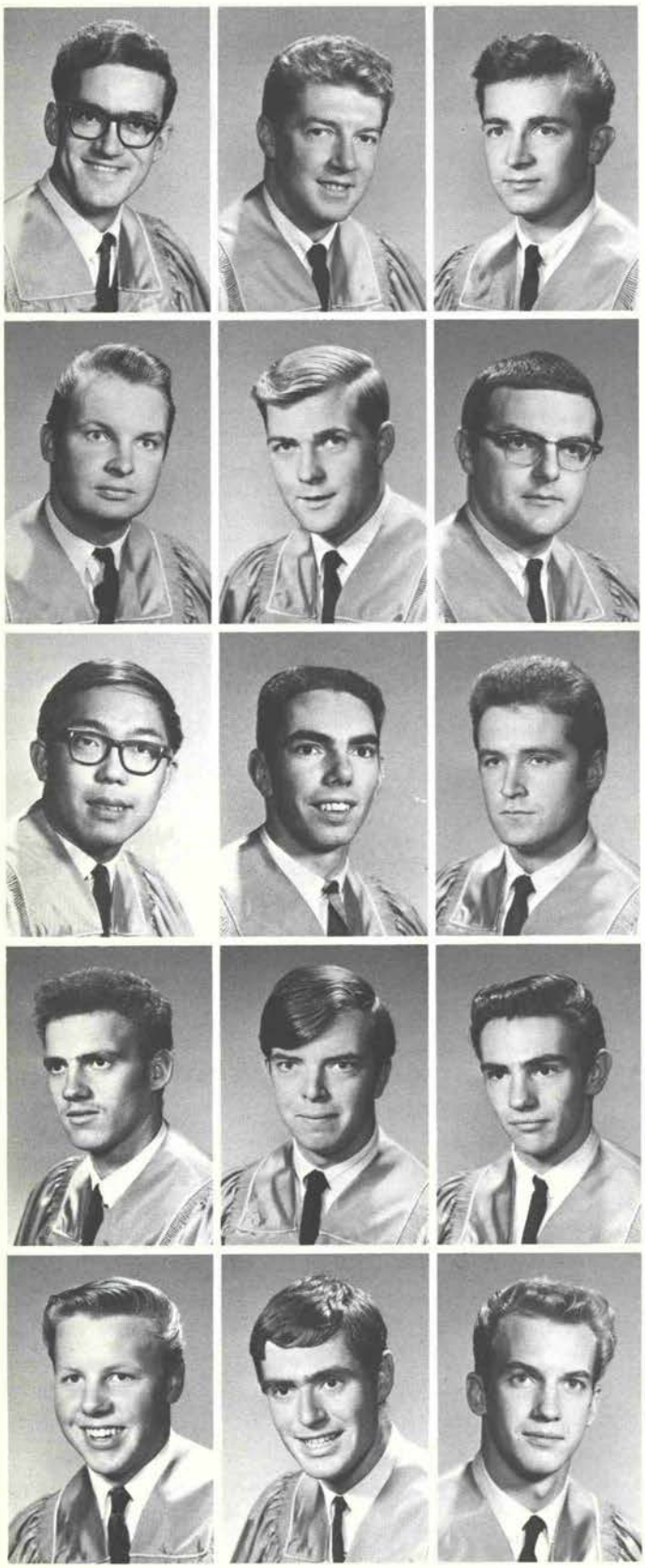
Students participate in intensive courses given in mathematics, physics, photogrammetry, astronomy, natural science, and descriptions for deeds, in which the standards are those of the Corporation of Land Surveyors of British Columbia; the theory of surveying, and the practical skills of drafting, field operations, and calculating.

Opportunities are widely varied in Canada and range from the southern border to the Arctic regions and from the Pacific to the Atlantic Ocean and many Canadian surveyors are employed on large mapping projects throughout the world.

Checking for high noon??

Surveying Lab

# surveying



W.R. Brookes
*Victoria, B.C.*

J.G. Cameron
*Burnaby, B.C.*

G.A. Chisholm
*Vancouver, B.C.*

L.E. Clingwall
*Abbotsford, B.C.*

D.A. Connolly
*Langley, B.C.*

N.J. Dedeluk
*White Rock, B.C.*

N.S. Fujino
*Revelstoke, B.C.*

G.B. Hand
*Burnaby, B.C.*

V.M. Jackson
*Richmond, B.C.*

H.J. Jacobsen
*Port Coquitlam, B.C.*

E.I. Kaardal
*Vancouver, B.C.*

G.K. Kusack
*Burnaby, B.C.*

P.O. Lee
*Madeira Park P.O., B.C.*

K.E. More
*Vancouver, B.C.*

W.C. Pound
*North Vancouver, B.C.*

J.A. Rousell
*Ladner, B.C.*

J.D. Shortreid
*New Westminster, B.C.*

G.D. Smith
*Victoria, B.C.*

C.R. Tamasi
*Vernon, B.C.*

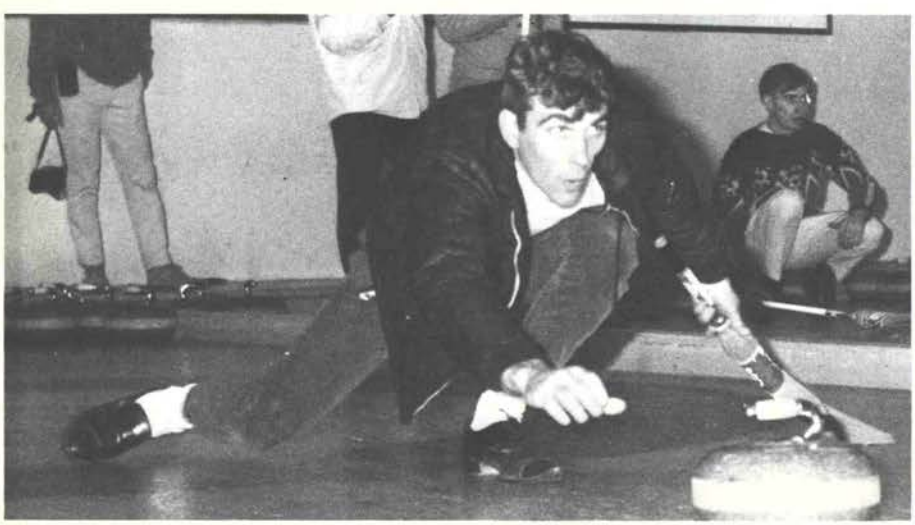
I.B. Wilson
*Sidney, B.C.*


Surveying at work.

For those willing to join 'the others'. . .
REMEMBER that the sum of 'the selves' is always greater than the whole of 'the others'. . .

# clubs '68

# curling club



B.C.I.T.'s Curling Club followed the enrollment initiative of the Institute by doubling in size from its previous year's membership. The members met each Saturday at the U.B.C. Winter Club to partake in the Club's main interest -- Curling, what else? It is hoped that next season the membership can use the MacPherson Winter Club's facilities when they regularly meet.

The season highlighted a number of events, headed by the Club's participation in the bonspiels at the University of Victoria and Notre Dame. The club also par-

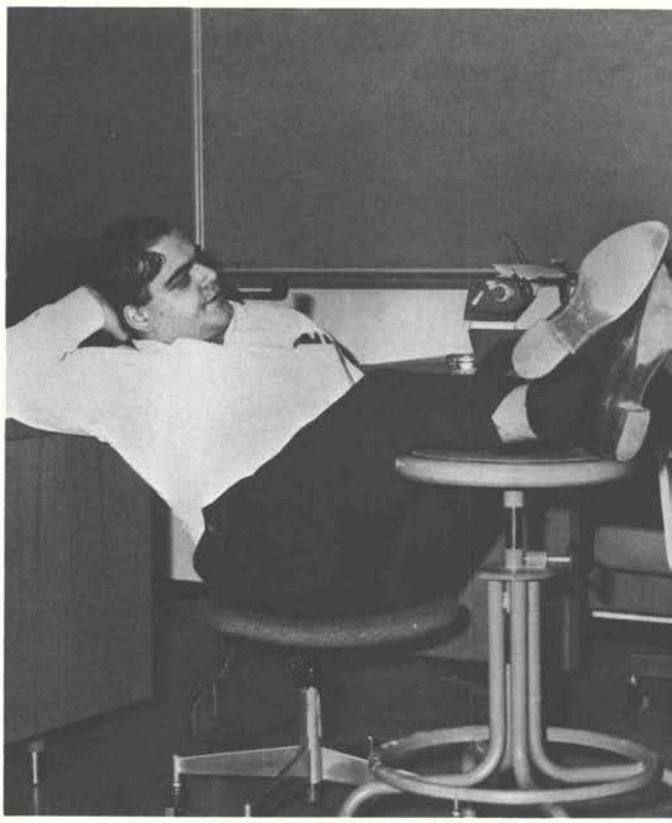
ticipated in three bonspiels conducted directly by the membership to challenge their abilities. Added to this, the Club received two invitations for curling matches at U.B.C. of which, unfortunately, only one could be attended.

The membership did extremely well, taking into consideration the expense incurred by each curler and the amount of time the membership as a whole could spend together curling.

In all, a very successful, hectic, but most enjoyable year for the Curling Club.

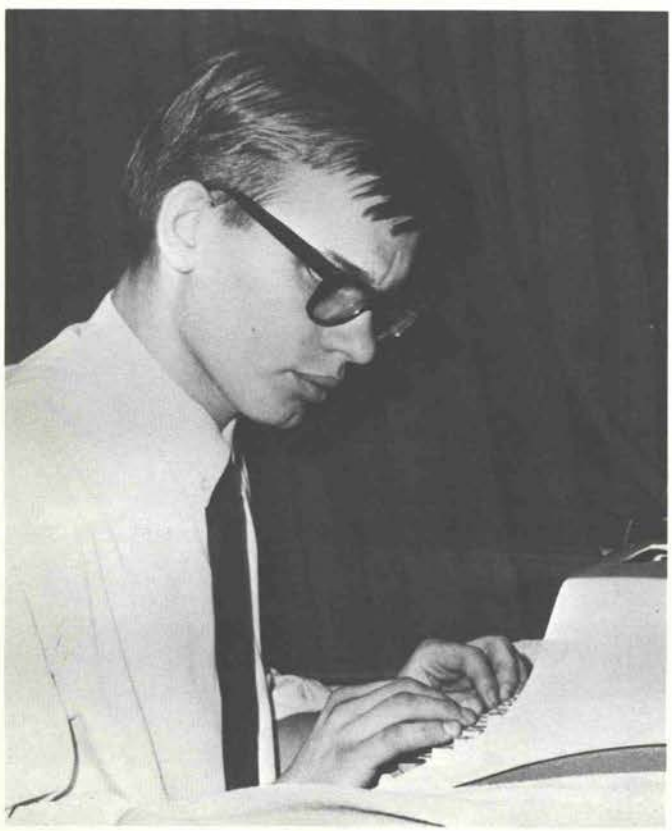
# link

Nigel Banks, Editor-in-Chief



Toto Miller, Columnist

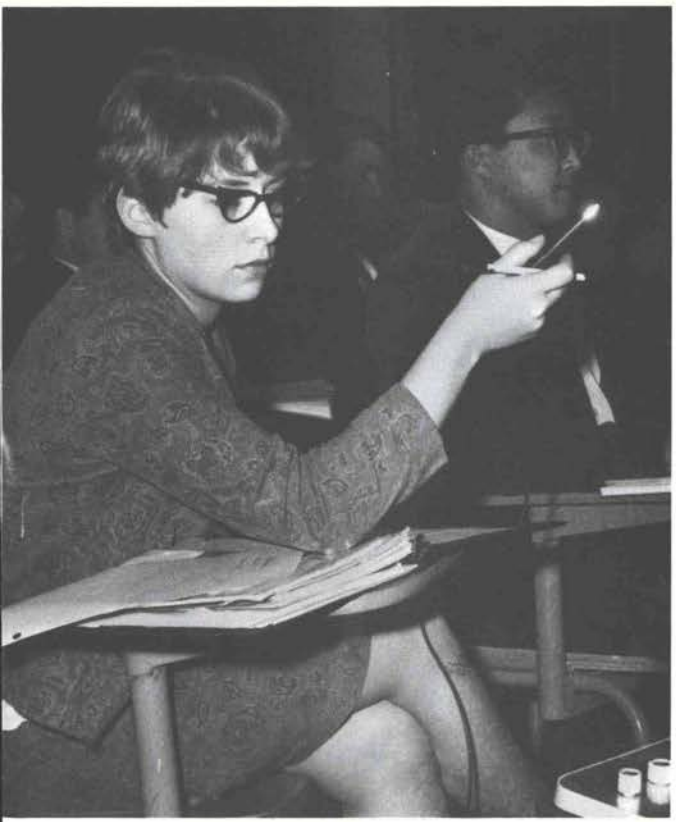
John 'dark' Horbatch, Columnist



The Link, B.C.I.T.'s very own newspaper appears every two weeks throughout the school year. As the name implies, the paper has as its purpose informing the students of activities, past and upcoming, around the institute.

In the rather academic atmosphere of B.C.I.T., attempting to provide a valid account of school life in print is trying to say the least. However, every student who contributes receives the reward of seeing his work in concrete form, and the faithful few who labour together on the Link feel that their labours are justified when the paper appears, and students can be seen reading it.

The Link attempts to provide articles of interest on sports, social activities, club events and as many things as can be related to the technological student.



Andrea Zanatta, Council Reporter

Brian Brookes, Art Director and Cartoonist

Russ Graham, Sports Editor

Bob Ostle, Layout Editor

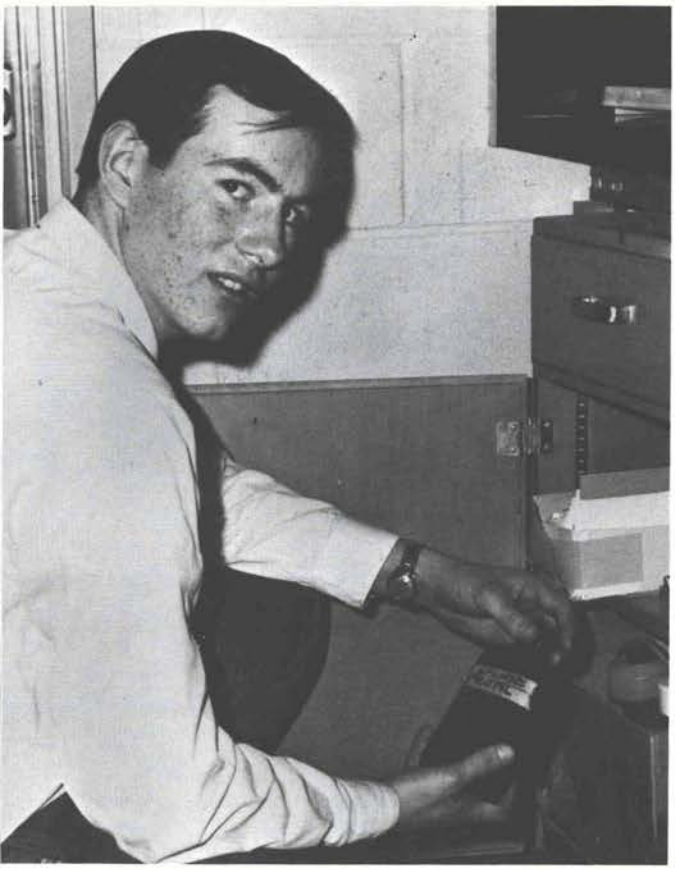
# amature radio

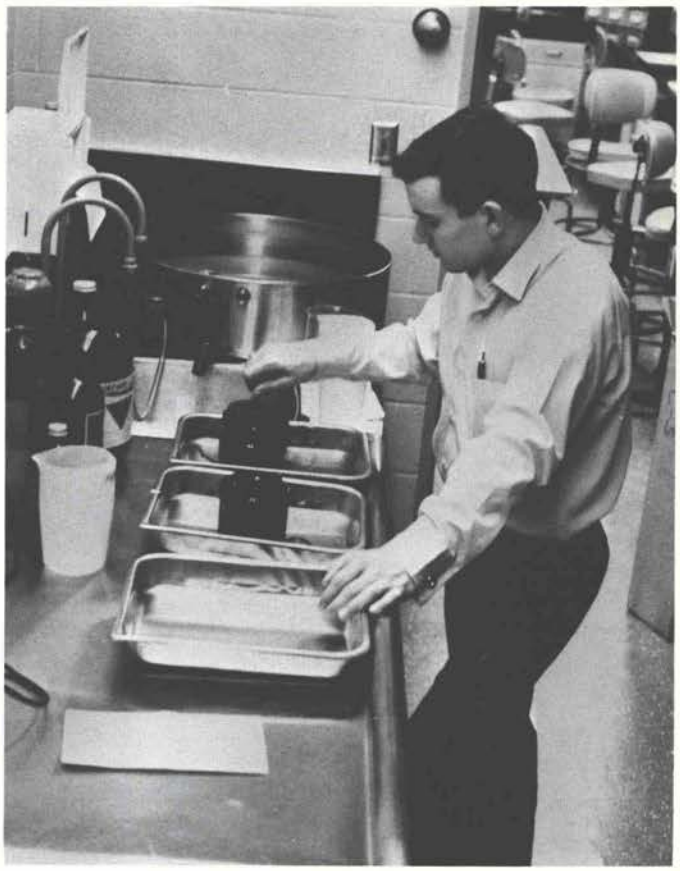
The "Ham Club", as it is referred to followed the trend of expansion in the 67-68 semesters. Club president Jim T Corbett reported a membership of five licenced operators and six associate members. The club's well equipped radio station was moved out of the electronics microwave lab and relocated in the communications lab on the fourth floor. This new location provided access to the new antenna structures which were to be erected on the roof directly above the lab.

Under the call signal VE7BQK, the club made contact with many countries around the world including Japan, Italy, Sweden, and the U.S.S.R. Conversing with amateur radio operators in other lands is only one of the facets of this club.

During the year, the club handled the ordering and distribution of several technical manuals to E and E and Broadcas (Technical) students at a considerable saving to them. Personal enjoyment and service of this type combined to make the club's activities a real success this year.

# photo directorate





The shutter bugs, under the capable guidance of Byron Starr and Walter Tamura and his staff of ten, are the culprits responsible for the photographs in this publication and those which have appeared in our own newspaper, the Link. These masters of the camera and darkroom techniques (whatever these may include) took 3,000 photographs approximately this year.

Working diligently for hours, there always appeared to be a smile and a chuckle as the candid antics of BCIT students were unveiled before their eyes. If your picture appears in this publication and you judge that this was not your most photogenic pose, then please do not show your wrath on our poor editor, just stand in line and await your turn with the photo director. Our editor offers his services as referee.

# sports car club


This year marked another step in the growth of the B.C.I.T. Sports Car Club. In a meeting held in October, the Canadian Automobile Sports Clubs unanimously voted to accept the BCITSCC as a full voting member. This insured Club members the right to participate in Regional and National competition and be eligible for Championship points. The Club also received the right to place events on the Regional CASC calendar.

This year also saw the Club move into its new Clubhouse in the student building. After last year's spartan conditions, the new furniture and offices seemed a little hard to believe. The lounge was quickly put to good use, as an extensive sports car library and coffee-making facilities were set up.

The Club also increased its competative events for the year. A series of noon hour

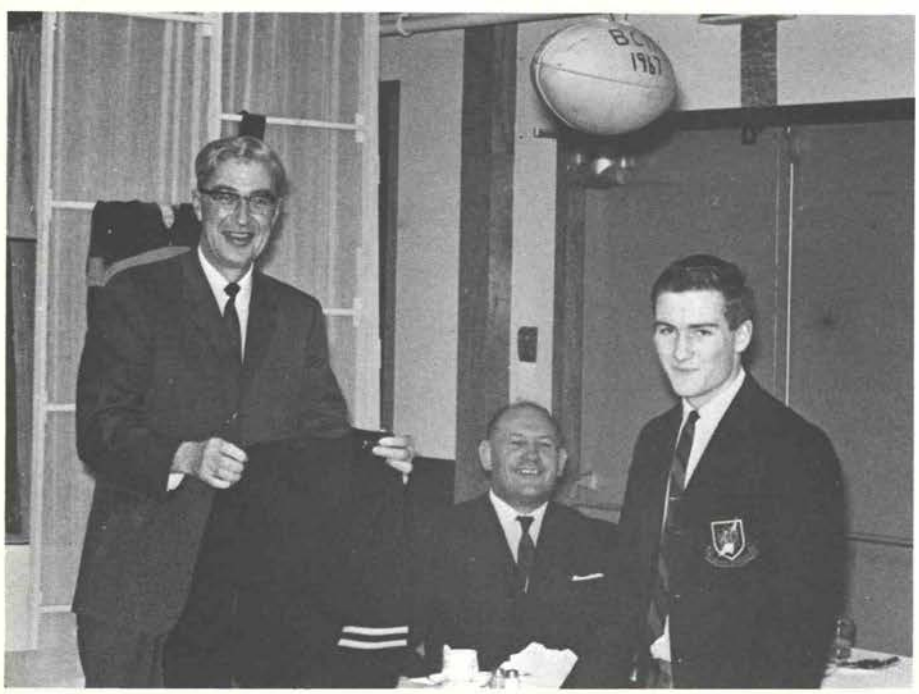
events were held and the "Sam Gomper's Day Pushcart Gymkhana" was held for the first time. This will become an annual event, and a pushcart gymkhana series will be held next year.

Several Club members participated in National and Regional Championship events. Most active of these were Mr. Leu Doyleud, Mr. Frank Gruen, Mr. Don McLeod, Tom Parker and Rene Bigio. Mr. Frank Gruen was overall winner of the Triad event comprising of a Regional Rally, Regional Gymkhana and an autocross. He was also actively competing for the Club Rally Championship along with Rene Bigio and Tom Parker.

The Club plans to increase its scope even further next year, possibly by making the 3rd Annual Computer Rally a Regional Championship event.

# rugby club



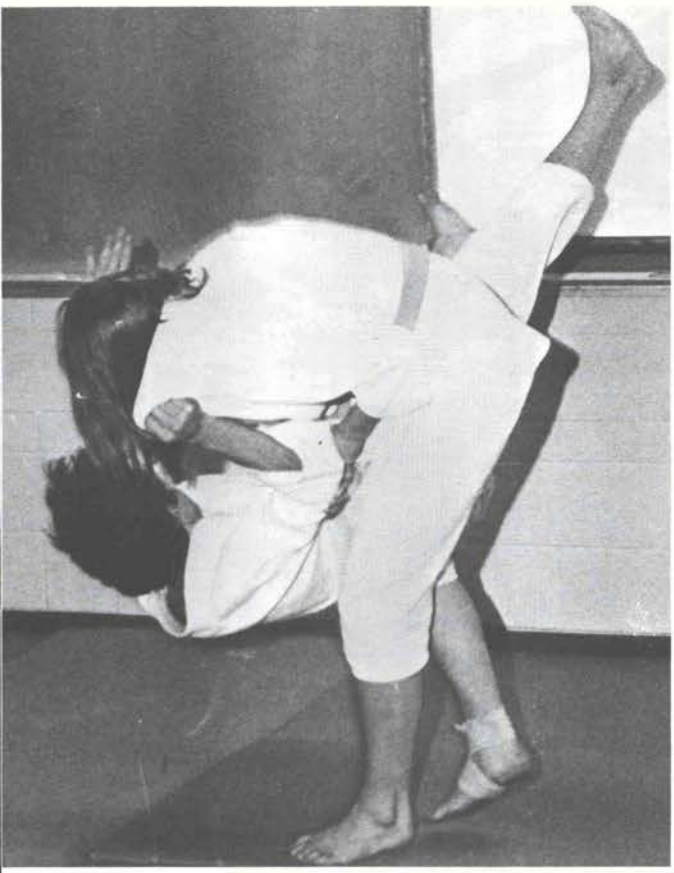


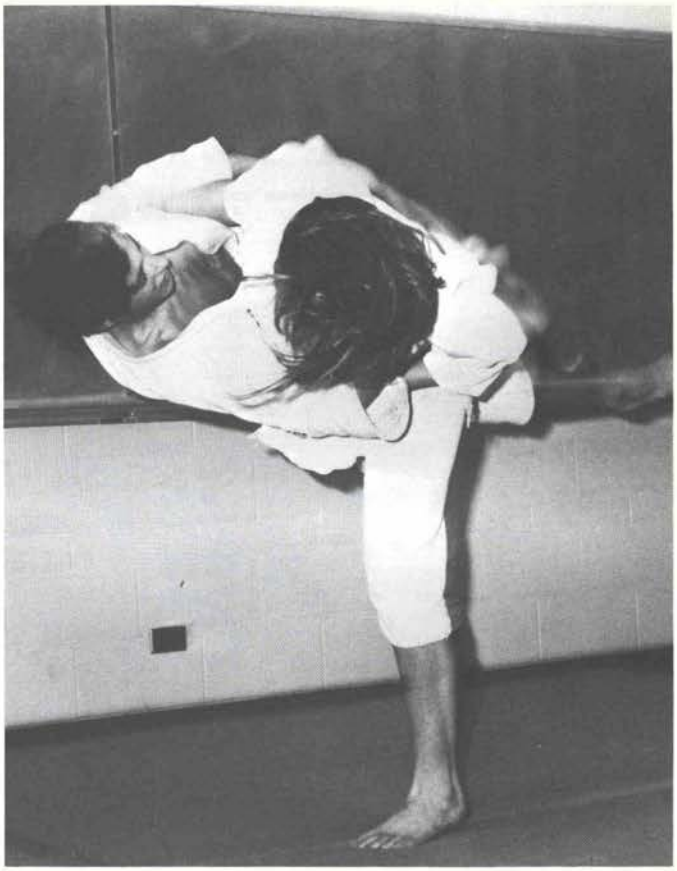

The Rugby Club was formed to function as the social arm of the Rugby Team. It was organized for those interested in supporting rugby but not necessarily interested in participating in the sport itself.

Aside from sponsoring the Rugby Team, the club sponsored the Car Smash earlier this year and without a doubt it was a smashing success. On February 4th, the club held its first Banquet and Dance, which hopefully will become an annual event. At the banquet the club presented the Vancouver Rugby Union with a ten dollar donation as part of the "Panther's" contribution toward the development of new rugby playing fields.

At the dinner, Mr. Goard presented the team with a plaque to commemorate the 12-0 win-loss record of the Panther's in this year's inter-collegiate competition.

# judo club





When the Judo Club was conceived in October of '67, the following conversation of two female students was overheard:

One: I'm gonna join the Judo Club.

Two: Why? Keep guys away?

One: No, to pin 'em down.

Truly, in such a serious need the Judo Club came into being. Workouts were held at the Renfrew Community Centre with a black belt instructor and members from the Centre itself guiding new techniques and developing acquired ones.

The Japanese Consulate provided the club with an informative film on Judo that was screened in November of '67.

On February 15th of this year a Judo display with participants in full uniform was held at the Institute with three members of the Club and two lovely girls (by no means defenceless) from the Vancouver Judo Club in attendance.

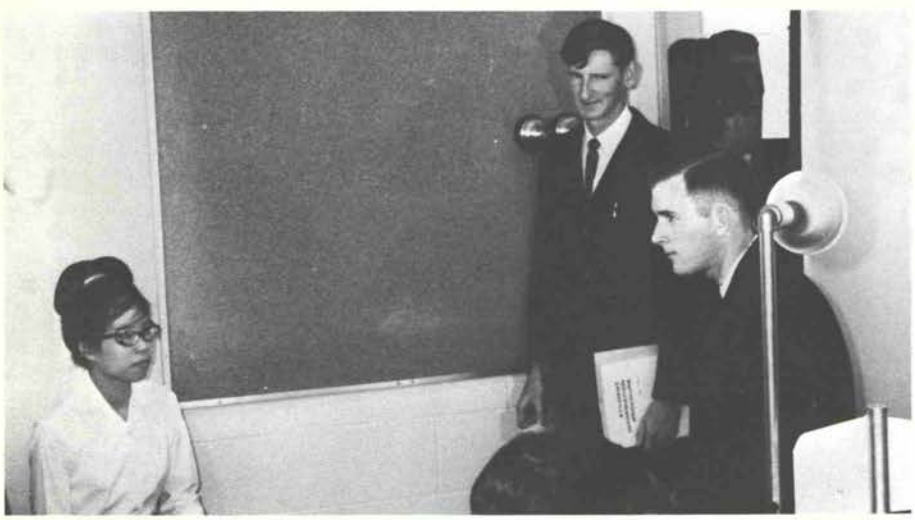
The Judo Club–a new at BCIT–had a very successful and active year. It becomes now necessary for students to acquaint themselves with the members; for this "manly art" can prove quite destructive to any opponent who challenges without forethought one of these "quiet ones" who know they can easily "wipe" you out by a twist of some developed muscle.

# ski club

Skiing was the "in" sport for all fun seekers, and BCIT'ers were no exception. With several good ski slopes within short range of the Burnaby campus, the potential for an active club was recognized early in '65. Since then the club grew each year, in proportion to the student population. Movies by such greats as Warner Miller, shown both before and during the season, helped wet the appetites of amateur and seasoned skiers alike, for the challenge of the slopes. The "Seymour Shaker" dance held by the club on Mount Seymour was a swinging example of the "apres ski" life enjoyed by the club members. Many BCIT ski bums and casuals took advantage of the Mid-term break, March 9-16, to spend several days on the slopes of more attractive distant resorts. The club made plans to form an inter-collegiate racing team and a core of instructors to offer lessons for beginners in the following season. All in all, a great season for a great and growing BCIT Ski Club.

# activities '68

# registration

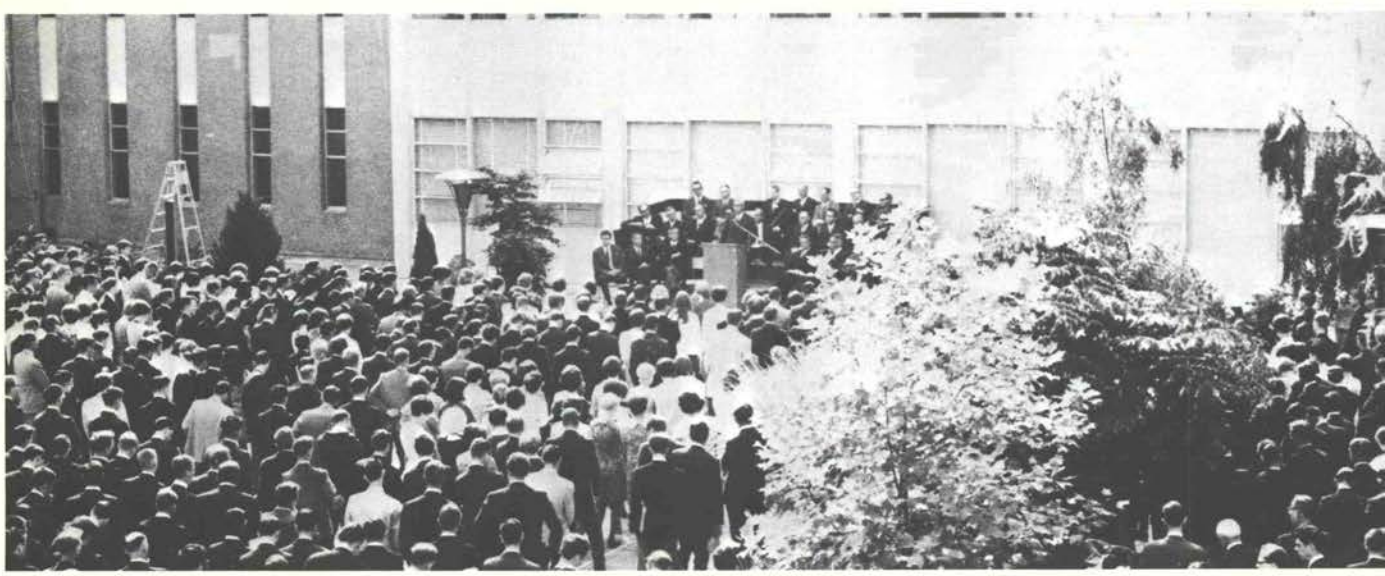
Registration--the shock that summer had come to an end and it was now time to go back to the books.

For the first-year students, it was an entry into a strange and new environment. For those going into second year a chance to meet old friends and to see who had survived the last set of exams. For the 'gentlemen', it was also a chance to survey the female population--doubled since the previous year.

After receiving the envelope of vital statistics, it was on to be greeted by the Director of Student Affairs, pay tuition fees and have 'mug-shots' taken for student cards. Then it was off for a do-it-yourself styled tour of BCIT.

On the first day of classes, the student body was introduced to their new principal during a short commencement assembly held in the quadrangle.

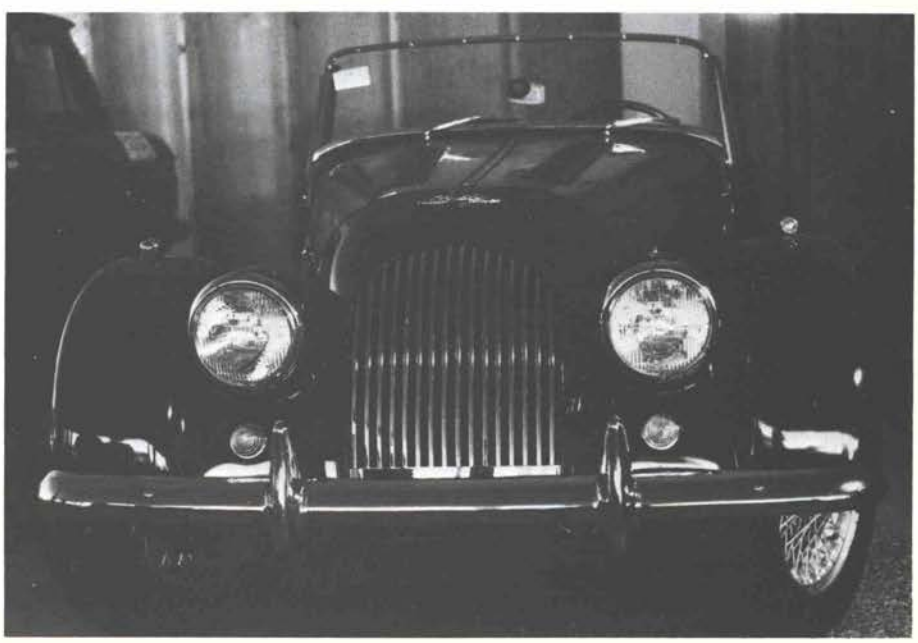
And so the term began. . . . . .



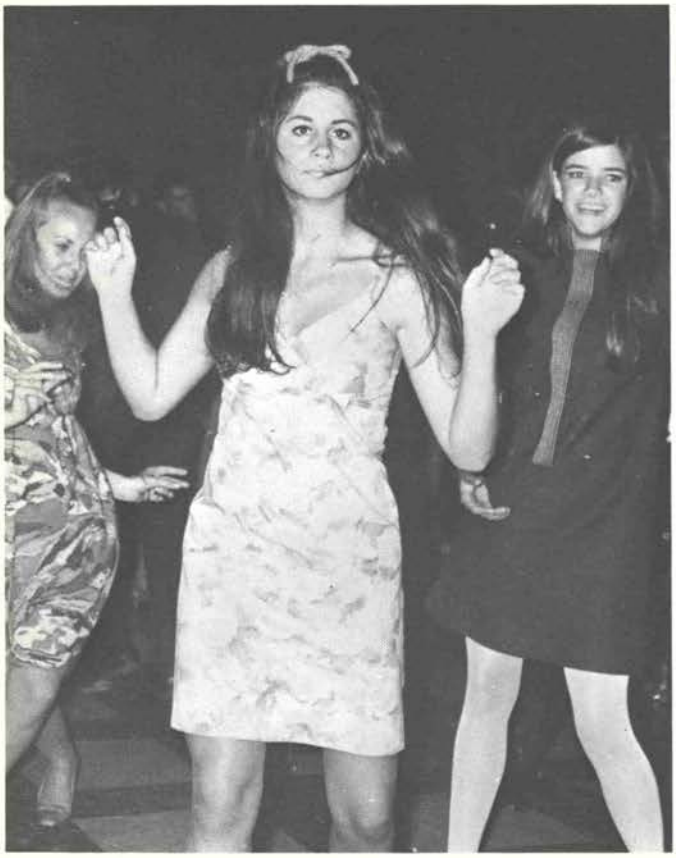

The BCIT Sports Car Club opened the year on an active note by sponsoring an Auto Show on the first day of classes.

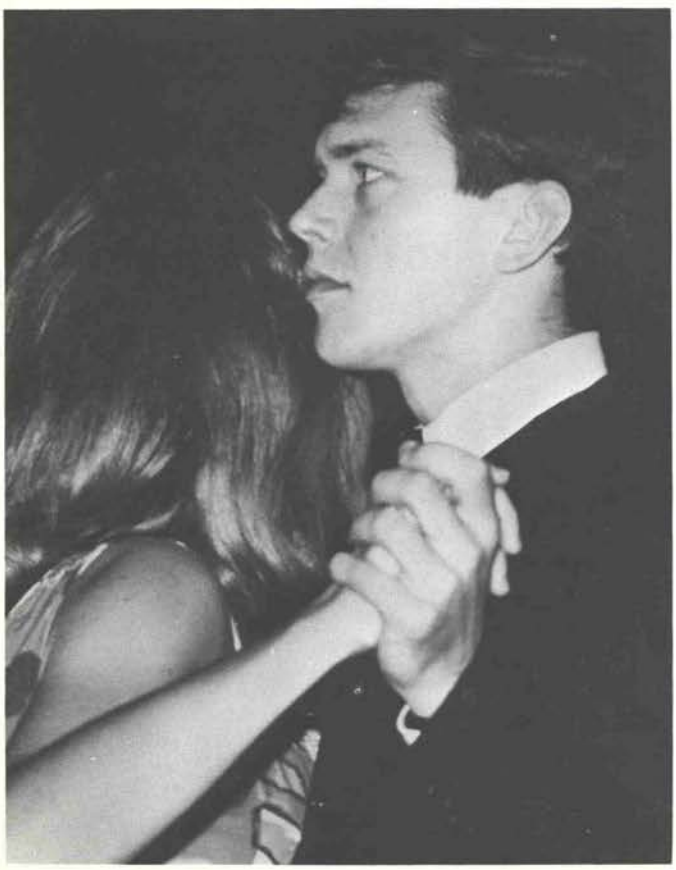
The show was supported both by dealers and by private individuals and included passenger and competition cars. On hand were 'Muscle' cars such as Mustang GT 500's and Camaro 396's, as well as racing and rallying Datsuns, race prepared Cortinas, Lotus Elans and two 130 mph Minis. A total of seventeen cars were on display.

The show was rounded out by a display from accessory shops and by a booth maintained by the Sports Car Club. This booth was used to display trophies won by members as well as to disperse information about the club.



# business dance



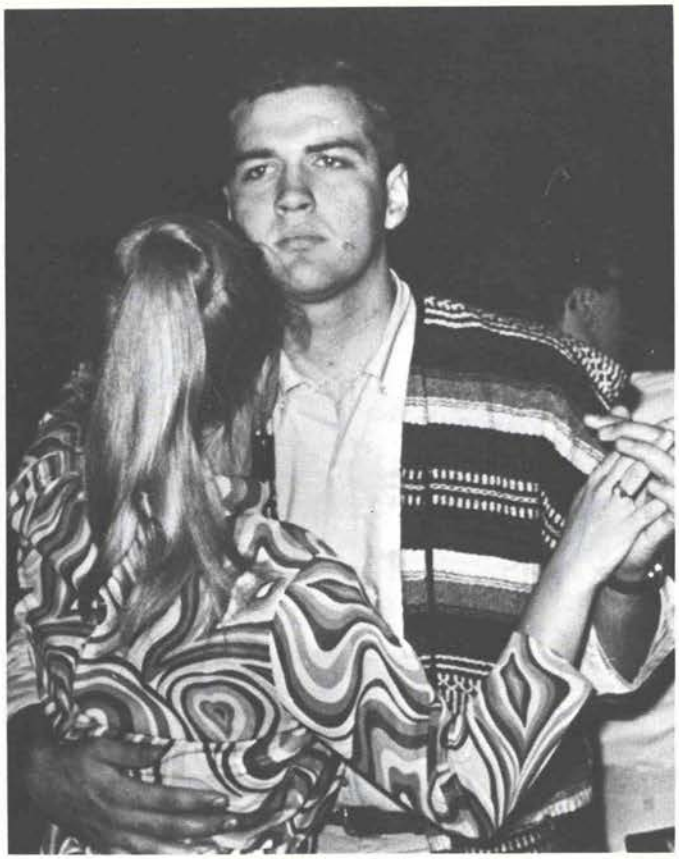


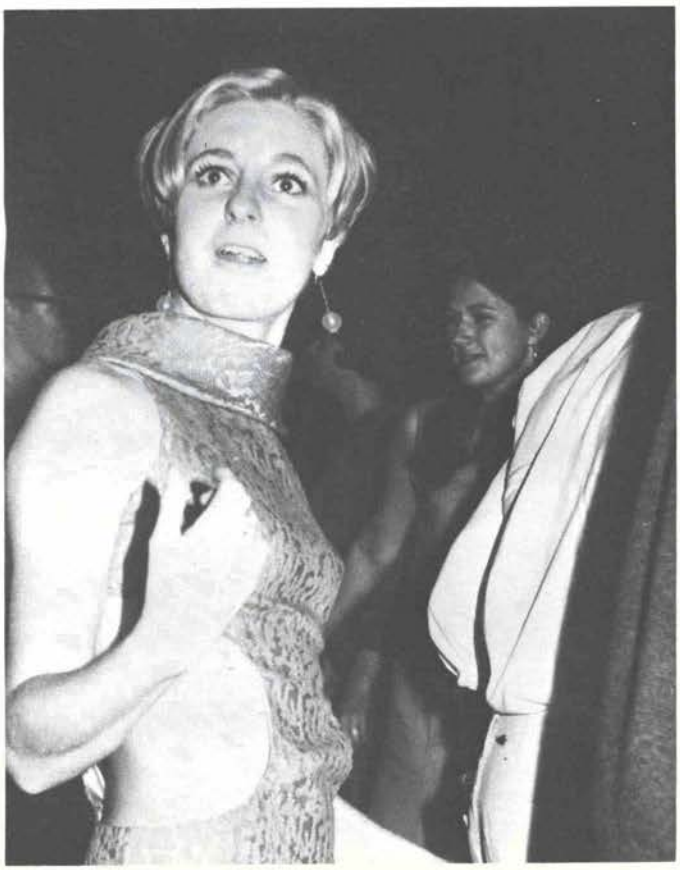
After the first two weeks of orientation frustration, everyone was given the opportunity to 'let loose' and relax at the first dance of the year. The dance held on Saturday, September 23rd and sponsored by Business was attended by well over 500 people.

The mood was set by the Sceptors, a rhythm and blues combo, and complemented by a variation of colourful mini-skirts.

The dance also featured for the first time a breakaway from the traditional 'technology tables'. For once the technologies intermingled freely - definitely a step forward in the minds of some.

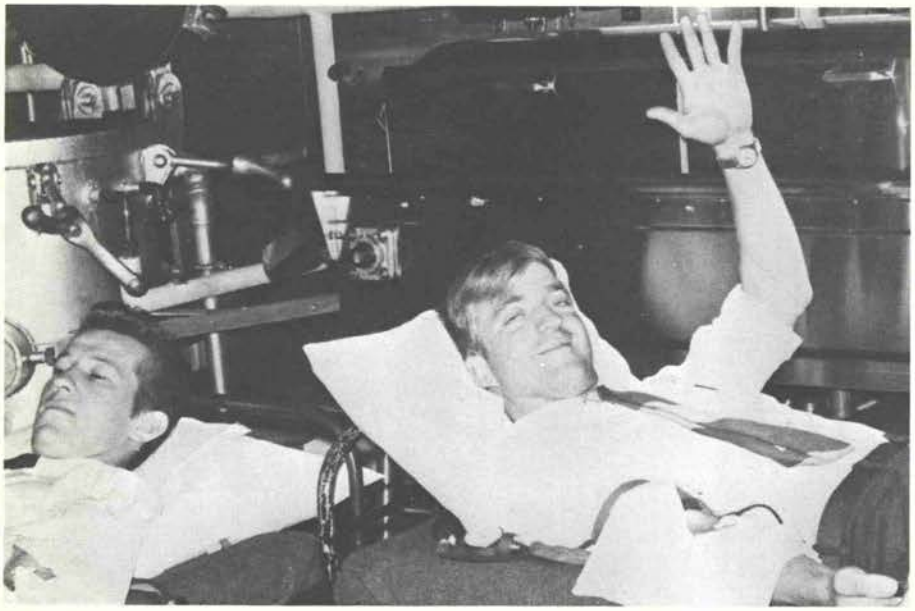
# psychedelic pumpkin





Programmed fun of the form in fashion at the time was hosted by E and E Tech at the familiar Hallmark Halls on October 20, 1967. The wierd and wailing freak sounds of "My Indole Ring" were set into the wildly haunting atmosphere created by makeshift psychedelic lighting. Messy Mod was the prominent attire and added to the howling hair-down enticement to "let it all hang out". . . great!

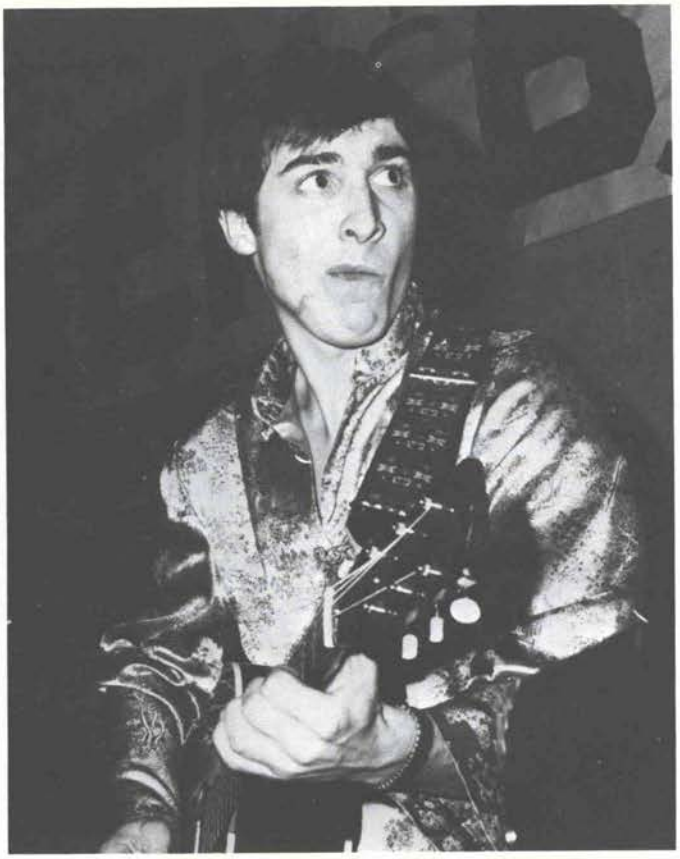
# blood donor clinics

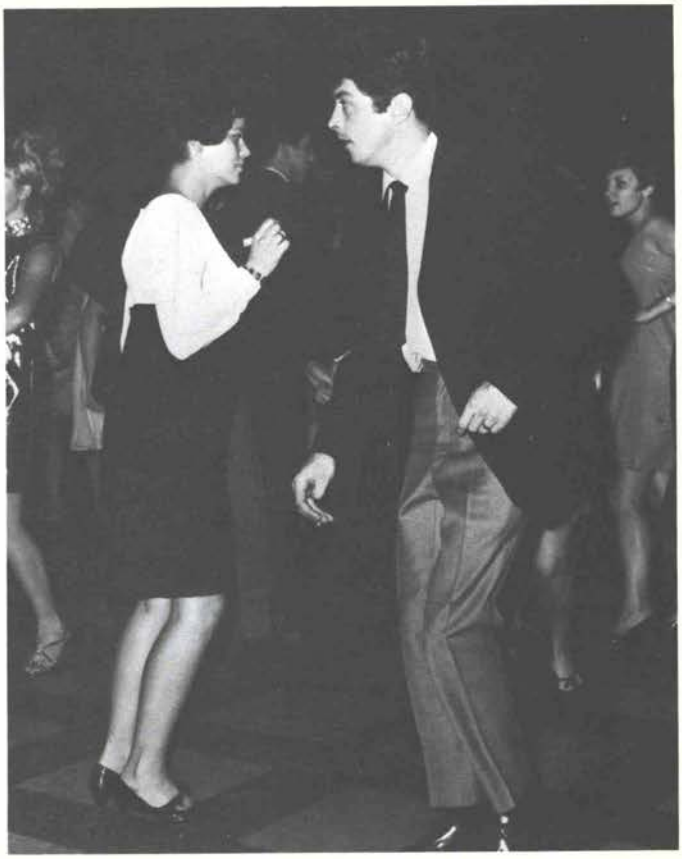


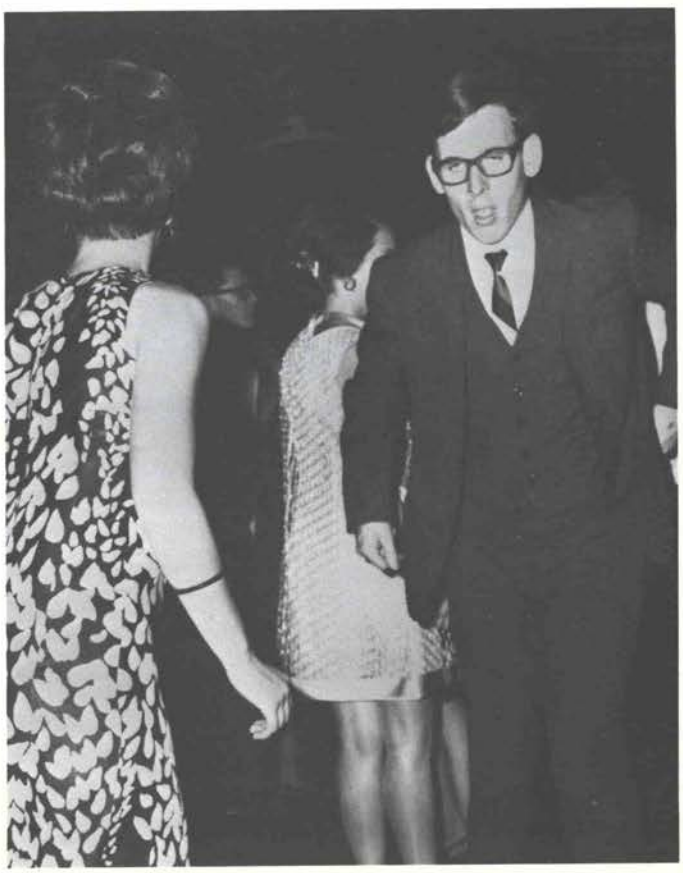
"Bleed! The life you save may be your own." exclaimed posters mounted on every available wall.

And bleed they did - that is if they didn't loose their nerve in the lineup, waiting to be interrogated and have their fingers pricked.

However, the coffee, orange juice, and cookies afterwards were considered an equitable trade for the pint of blood.







November 13th plunged the Institute into a week of feverish antics and activities, all centered around fourteen lovely technology representatives.

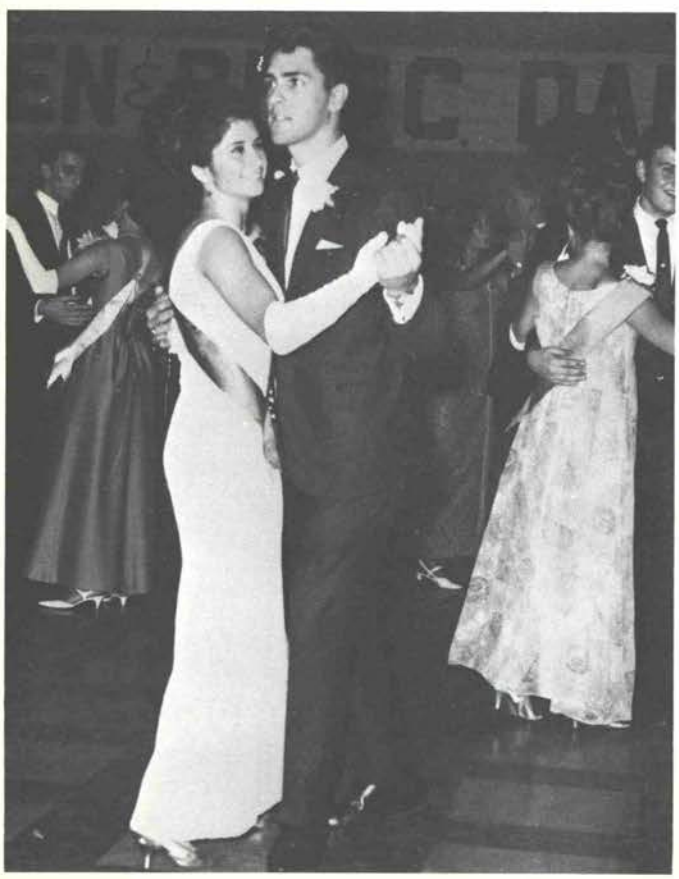
Each candidate's technology competed for window, wall and bulletin board space on which to display their imaginative posters and photos. Radiography fully exposed their representative on life size X-ray plates, C and S buried their competitors in an expensively (?) manufactured coffin while Med Lab tried to convert all into carnation adorned "Flower Children".

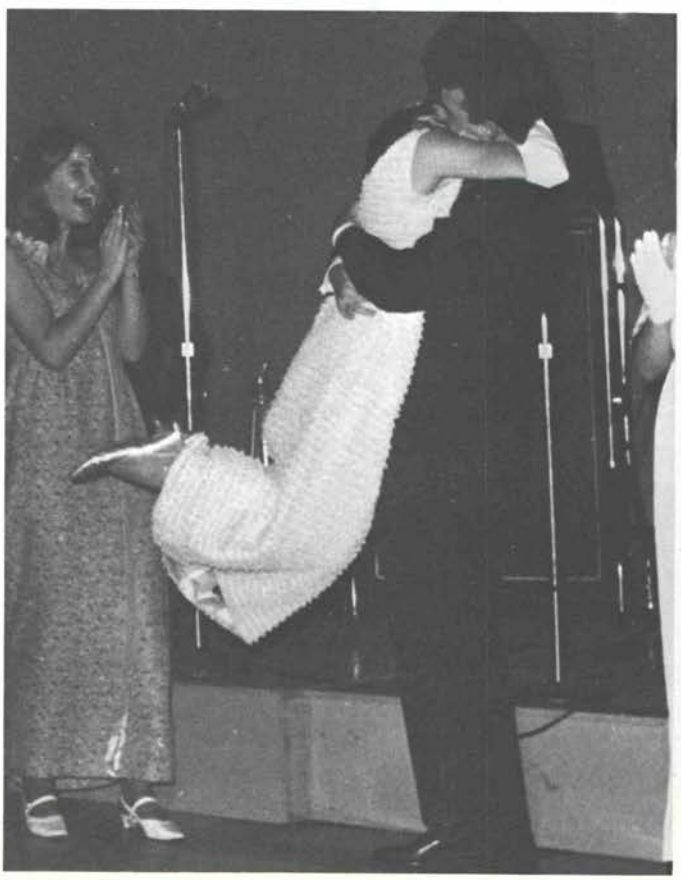
Every lunch hour and break was filled with stunts each designed to outdo the last. Nurses arrived en masse with candidates aboard a hospital bed; Del Richards and band paraded the halls and water bombs released their own kind of fun (?). However, one lunch hour was reserved especially to proclaim the acting ability of each candidate in their own original or borrowed play.

All the excitement was of course, climaxed by the Campus Queen Dance in the Imperial Room of the Hallmark Halls. Candidates, exquisite in their formal gowns and accompanied by their handsome escorts, were presented to the assembly. Amid great excitement Principal Dean Goard crowned Queen Marg McClary and Best Man on Campus, Marwyn Thomas.

# campus queen

Campus Queen Candidates: standing (left to right) Pat Romanchych, Gail Clarkson, Barb Berrington, Anne Gendron, Marg McClary, Jo Watson, Trudith Thomas and Chris Fryer; and sitting, Linda Sundman, Dale Wood, Sharon Collicut, Carol Simard, Lesley Webster and Tish Tucker.





First runners-up: Broadcasting represented by Linda Sundman and Peter Crowder.

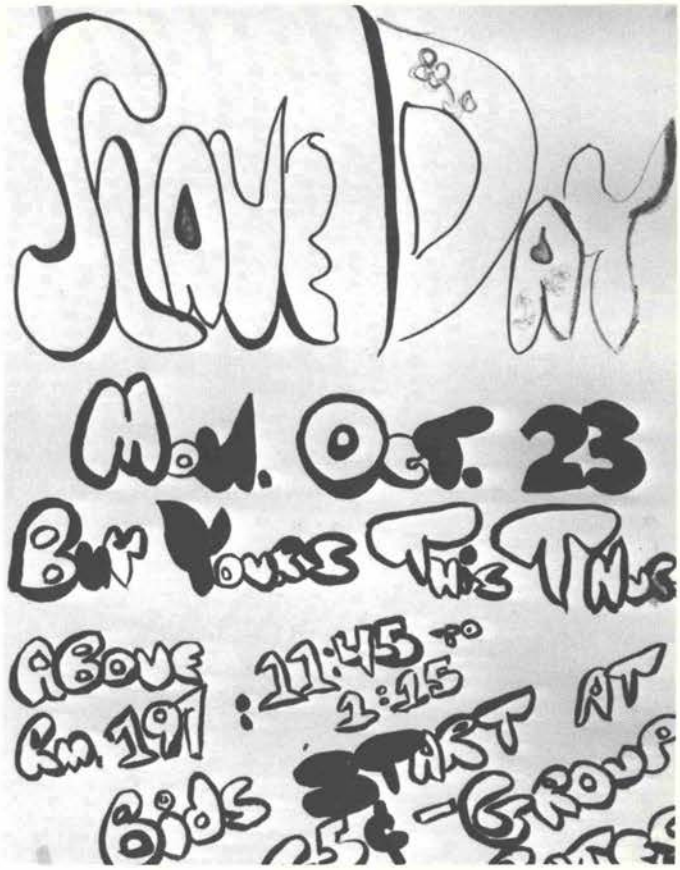
Second runners-up: Business represented by Anne Gendron and Gary Ross.

# leg auction & slave day

Thursday, October 19, was a memorable day for all the "gam watchers" at B.C.I.T., who ogle girls in the halls every spare moment of their deprived existences. This was the opportunity for uninterrupted and completely acceptable "gam" gazing, as the dedicated ladies of nursing and med-lab. offered their legs for the cause - money.

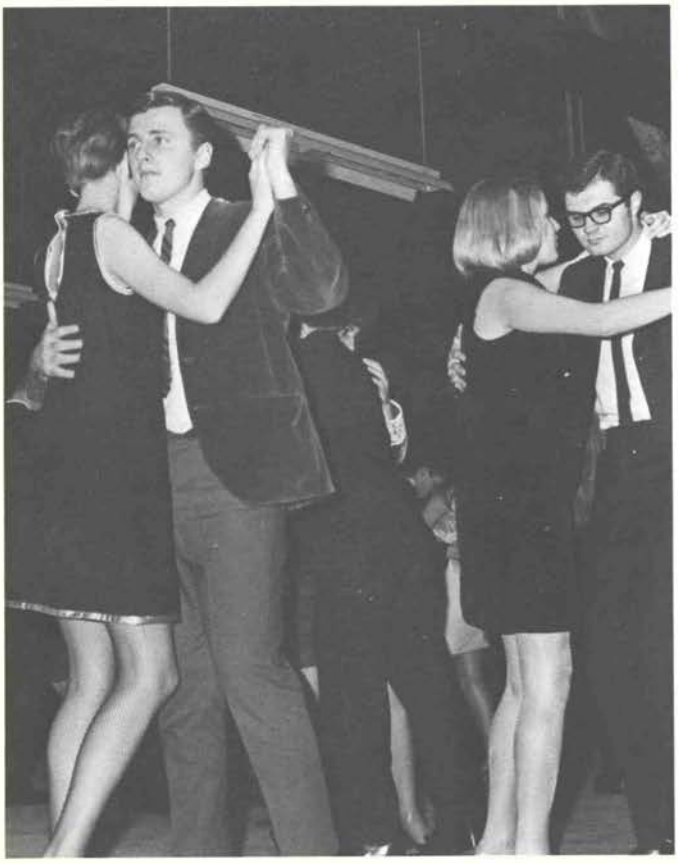
Never before in the history of leg auctions have so many perfectly matched tibias and fibulas been displayed. Each pair

# leg auction & slave day

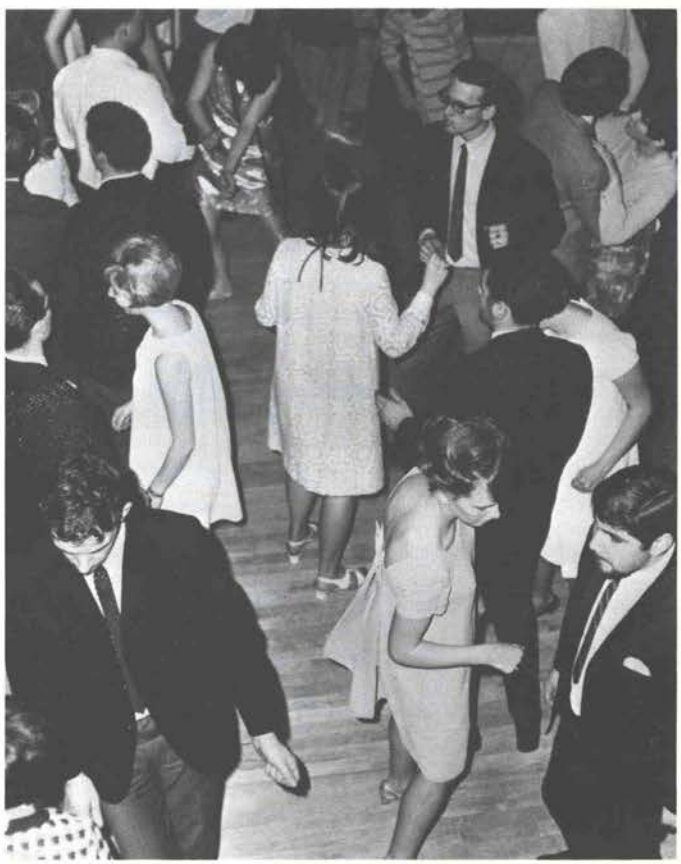



was critically appraised by B.C.I.T.'s experts. The bidding was hard and fast and many walked away 'legless'- especially those whose funds ran out. As the gentlemen claimed their purchases, the 'legs' prepared themselves for their day of drudgery. Depending on their master, tasks ranged from car-polishing to selling kisses.

# rugby club dance



The enthusiasm for activity inherent in each member of the B.C.I.T. Panthers was shared by an eager throng of fun folk on the night of February 4, 1968. Immediately following their club banquet held at the James Cowan Memorial Centre, the Panthers threw open the doors to have a rebust representation of the technologies join them in swinging "loose scrum" play a playmates. The hall throbbed to the steam and steel sound of the "Pennsylvania Railroad" while both coached and uncoached alike worked it on out. Several tries were attempted, some with success, and the night ended with the score everyone for and no one against. . . . Another highlight of the growing B.C.I.T. spirit!

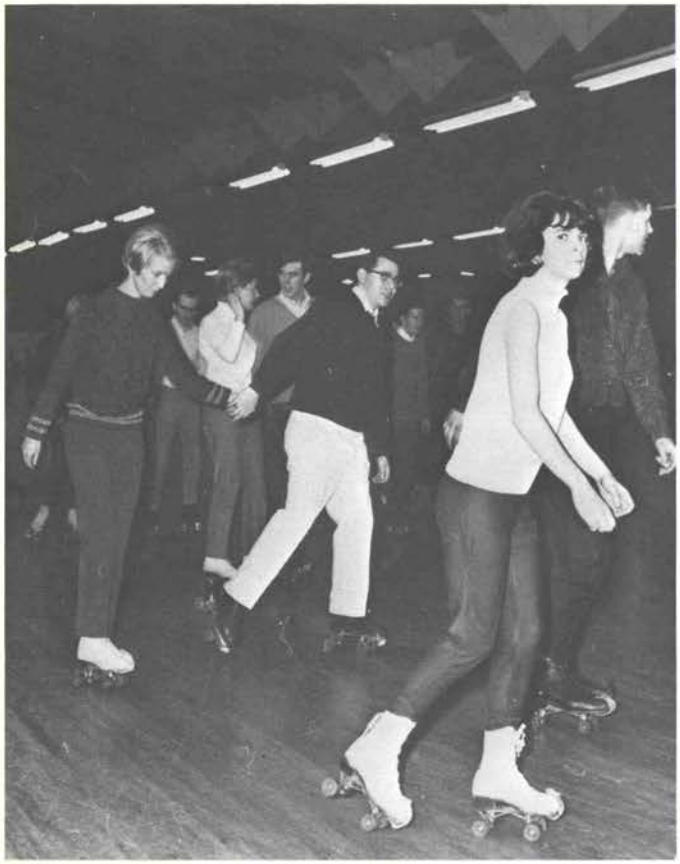


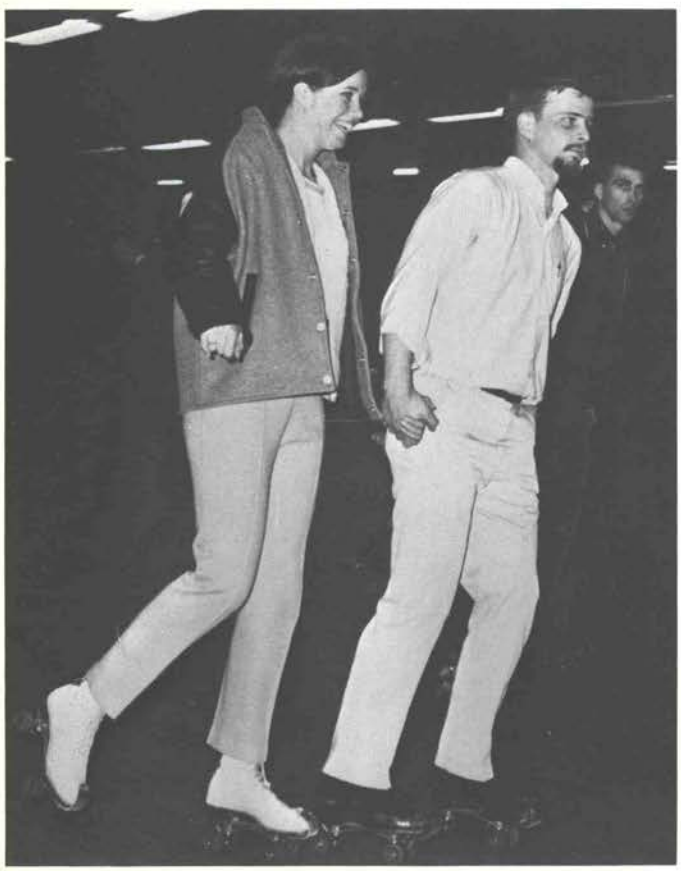
Friday, February 16 saw the Nurses sponsor their first dance at BCIT. "Charlie Brown's in Love" was held at the Flame, decorated in amourous Valentine style.

The music varied from psychedelic, country and western, and polkas to modern pop, as "Mother Tucker's Yellow Duck" proved their well-known versatility.

Although attendance was not as large as at some of the previous dances, the dance swung until the early hours of the morning while everyone took the opportunity to match their dancing abilities to the band's varied pace.

# roller skating





Contrary to the "sorry census of 68" not all BCIT co-eds spent all their wake hours on their dolorous derrieres. In fact, some 250 got into the uproarious roll of things at the roller skating party held by Business Tech. on February 1, 1968 at PNE Rollerland.

The program allowed the "frolicking few" to mix and mess to piped in rock of then current vintage. Though both the "knew-hows" and "how-news" had several occasions to return to their familiar seated positions (especially during the hilarious "musical pie plates" contest), the programmed fun provided enough novelty to keep most "derbyists" moving and moved. . . . An enjoyable event, memorable for its contrast with the normal B.C.I.T. routine, if not for the great fun it was.

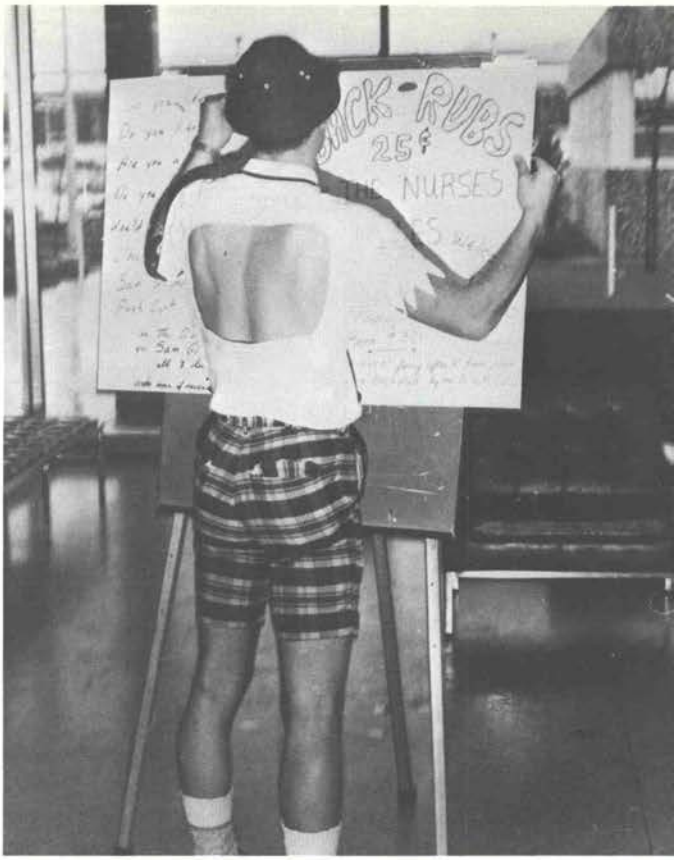
# tug-o-war

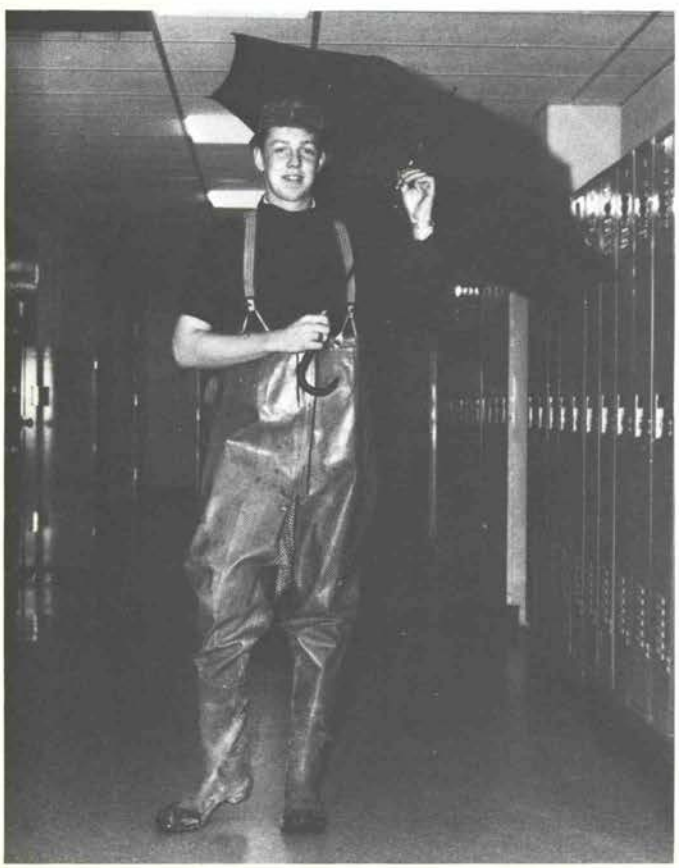
It was a black day for the males as another round was lost to the 'weaker' sex.

The males of BCIT, represented by a team of husky Business students, were thoroughly trounced by an obviously healthy female team composed of Nursing and Med Lab students. (Apparently they must have learned something up on the fourth floor.)

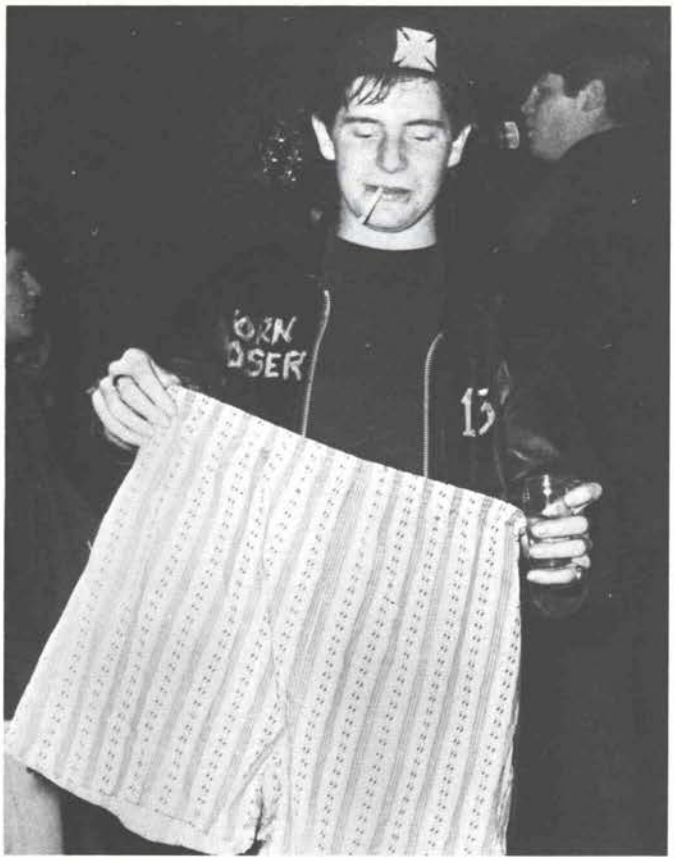
The disaster occurred on a November day in a tug-o-war event held in the mud behind the school during the noon hour.

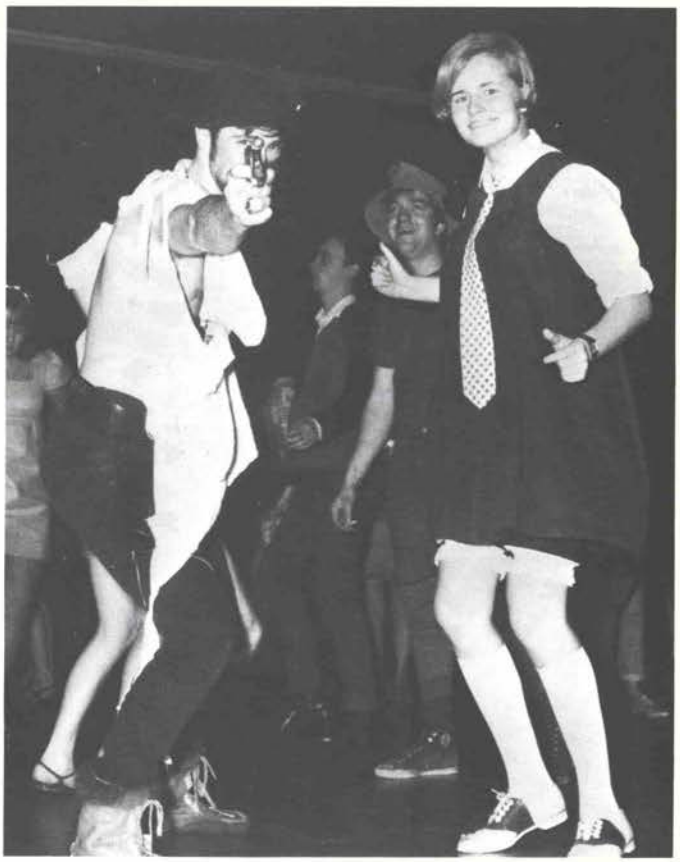
# sam gomper's day

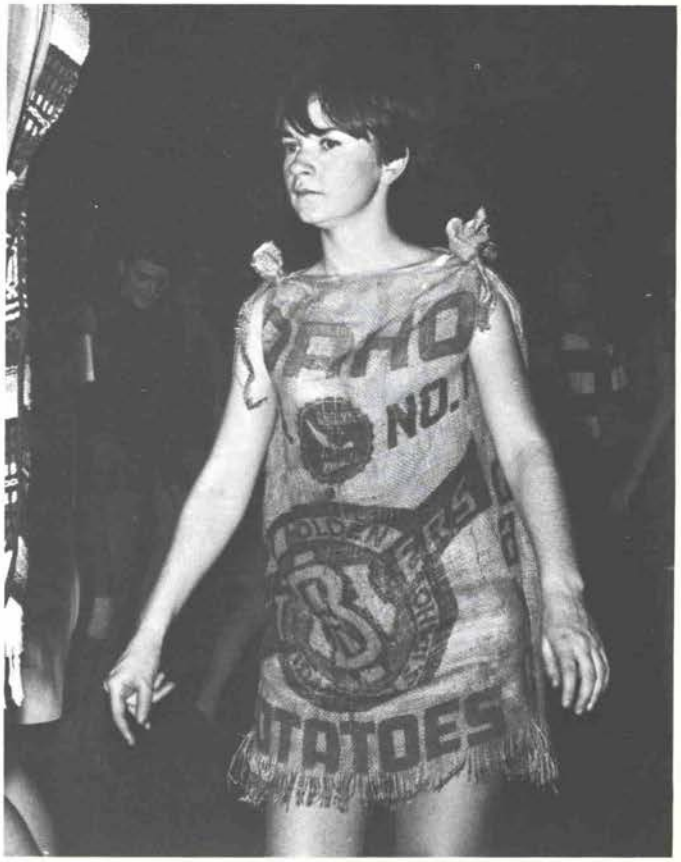


# sam gomper's day







The first annual 'Sam Gomper's Day' or 'Grub Day' was held at B.C.I.T. on January 19th. On this one day students were permitted to attend the institute wearing the most bizarre outfits they could come up with. And that's just what everyone did!

During the noon hour breaks the BCITSCC added to the fun by sponsoring a pushcart gymkhana which was supported by an excellent turnout. Naturally, our nurses got into the act by selling backrubs to the survivors of this strenuous sport and anyone else desiring one.

The day, however, was by no means over! A 'Hard Times Dance' featuring two bands - the Action Musicians and the Five Man Cargo - in separate halls followed that night at the Hallmark Halls.

It was a great day for everyone!

# broadcast disc date

The Broadcast Disc Date with genial host Larry Bowder held in the main foyer was a lunch hour diversion that was a great success. The remote broadcast was part of a Broadcasting lab exercise in running a radio station and from the look of the crowds around the console, it generated a lot of interest and enthusiasm. As many requests as possible were played, and there were many. A live studio is something that few people have seen and all credit is due to those responsible for making a facet of one of our technologies available for all to see.

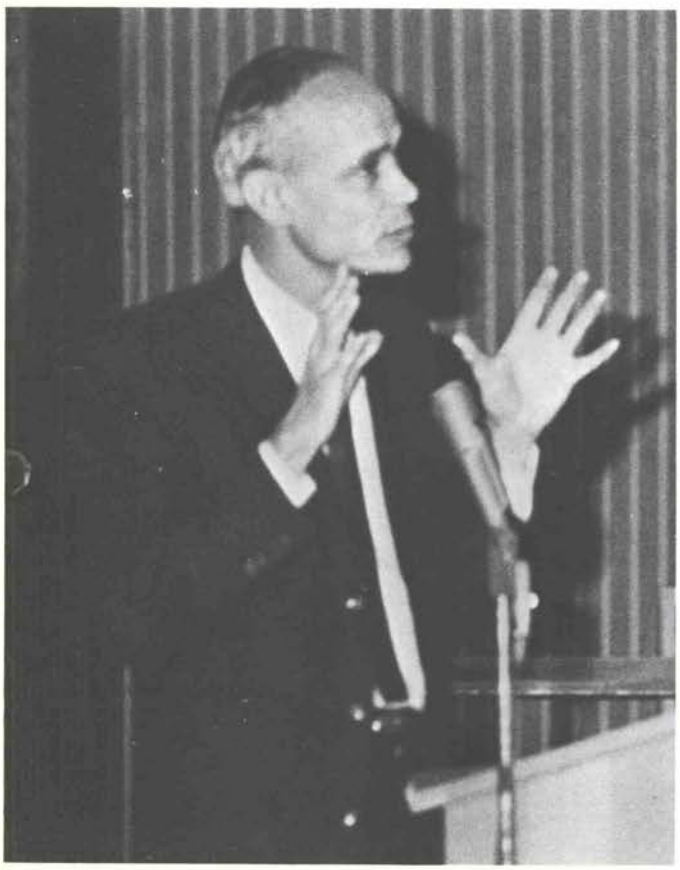
# car smash

October brought an event which was certainly to the students' delight. During the noon hours, the Rugby Club gave students the opportunity to vent their many frustrations on an old wreck–for a price, of course.

Even so, the activity drew a large crowd of students eagerly awaiting their turn to let loose. Even the Vice-Principal and Registrar came to take a swing at things.

In summary, it can safely be said that a smashing time was had by all.

# huston smith



On January 25, a stimulating lecture was delivered by Professor Huston Smith of the Massachussetts Institute of Technology to a near capacity audience in the double auditorium at B.C.I.T.

Professor Smith's lecture concentrated on three specific targets which are being affected by today's changing technology, namely: politics, society and man's consciousness of reality.

After his lecture, Professor Smith fielded questions on subjects such as hallucinatory drugs and the genetic effect of self-induced sensory stimulators.

After a most captivating hour, a deserved standing ovation was given by the appreciative audience.


On February the 12th in the foyer, the bevy of beauties from X-Ray gave up their books and highly technical equipment for shoe shine kits. The call to polishing and scraping the mud off the shoes was made in an effort to purchase pins for the grads of the technology. Through their alluring smiles, more than polishing ability, the undertaking proved to be most successful. Patrons put their chivalry aside as these maidens of X-Ray stooped down to offer their "non-technical" abilities to make each pair of shoes gleam, with full knowledge that a few steps away from the building they would be swallowed up by the mud moat that protects the students from the world outside. Every man took the buffing with pride, realizing that this might be the only time in his life when the weaker and fairer sex would actually stoop down before his presence. It certainly was a male ego lifter.

# valentine's day

"Pandemonium in the halls" is the best way to describe the actions of and the reception to the sweetly attired nurses with their large pink bows adorning their hair which became part of the pleasing antics of Valentine's Day.

Loving smiles and gestures cast by these followers of Florence Nightingale while pinning "hearts" which advertised their upcoming "Charlie Brown's In Love" dance certainly did much to bring the spirit of Valentine into full swing.

Broadcasting's Valentine Sock Hop was treated to their lovely intrusion and the sock hop itself was upstaged by their presence. Needless-to-say, the fellahs melted into the "Heart" of Valentine and an early spring fever was rumoured to have taxed the Health Service personnel to the limits of exhaustion.

These nurses'll do it every time!


Should you be able to vote at 18? . . . Are you sad and colourless? . . . Are you dead at 25 and buried at 65. . . Is the Senate the biggest (and costliest) welfare case in Canada?

These were questions, asked by the well received socio-humorist, Richard Needham when he appeared on the B.C.I.T. campus on February 28, 1968. Needham, columnist for the Toronto Globe and Mail, and his girls were accompanied by Kim Foikas, Vancouver's self-styled town fool.

Basically an idealist who would thrive in an Utopian-like society, Needham offered a myriad of opinions on what is wrong with Canadian society. He emphasized the importance of Canadian youth and the need for more critical consideration of our use (and misuse) of Canadian young people in the rejuvenation of the nation. His talks were both thought provoking and encouraging for those in the audience looking for a counterpoint to the hollow grind of the education machine.

# ann mortifee




Anne Mortifee, noted folk singer, displayed her talents on February 29th to an appreciative audience of some 150 students that had assembled in the double lecture theatre. Her highly entertaining performance received warm and continued ovations from students in attendance.

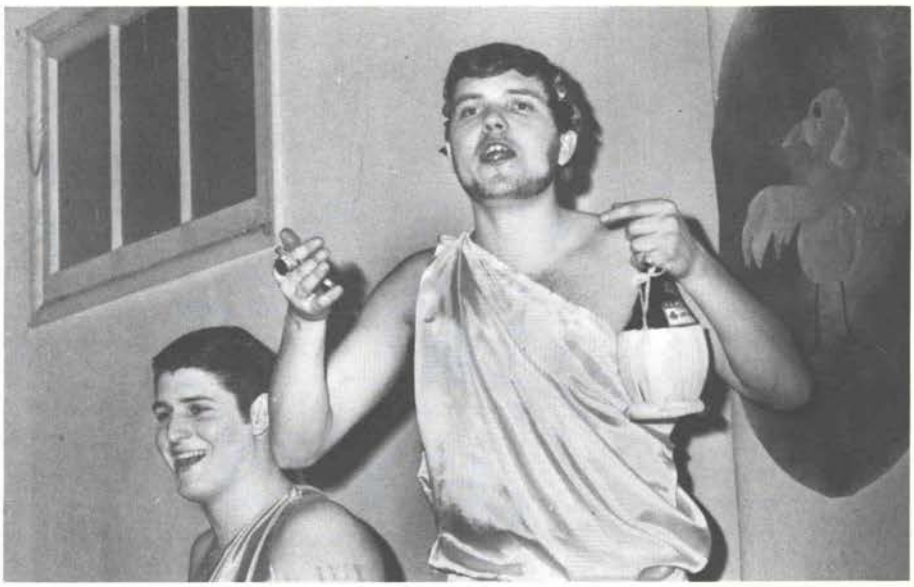
Credit for arranging Miss Mortifee's appearance at the Institute must be given to Marg McClary, Social Chairman, who has initiated a policy as part of "Special Events" of bringing entertainment of this nature that has long delighted campuses across the continent but is a fresh, pleasant twist to ours.

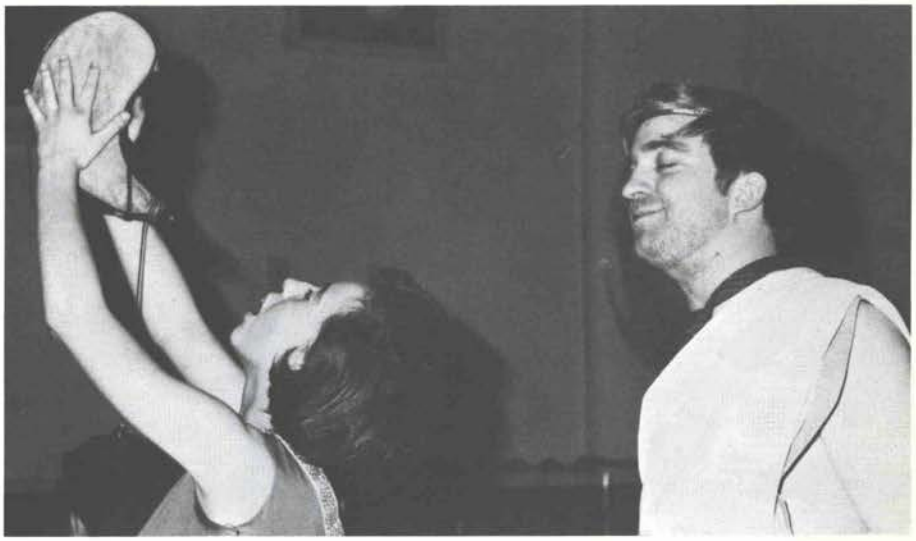
# toga-party

March 8, 1968 brought the onslaught of the Med-Lab Tech's Toga Party. Approximately 350 people arrived fully prepared to drive out the wicked reminders of mid-terms and begin their spring break with a two-day recovery in bed. Unfortunately, a majority of possible supporters decided home was a much better place to be and many students left Thursday and Friday for various parts of the country.

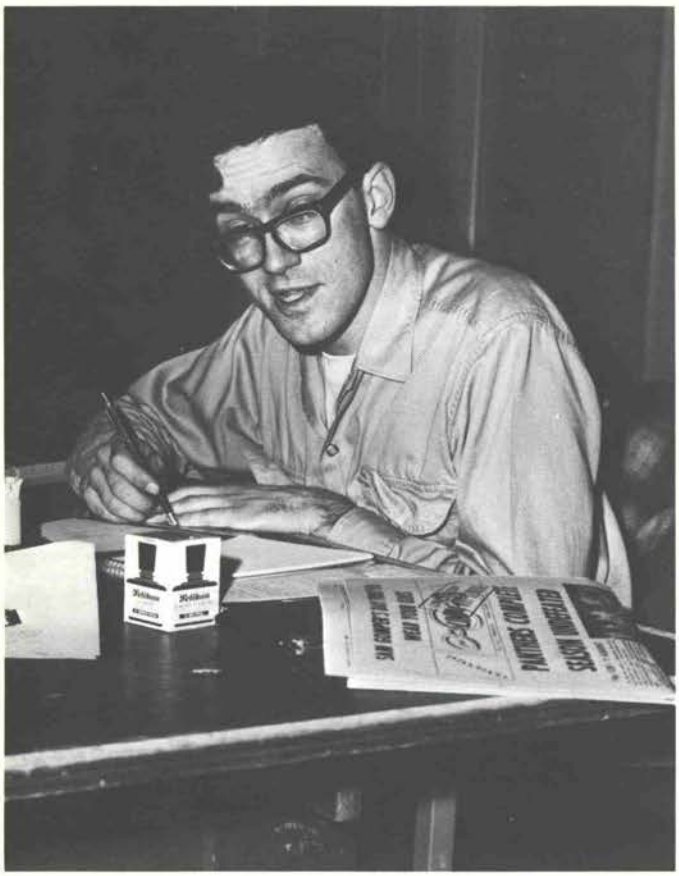
At least 80% appeared in full Roman dress. It was really a sight. Costumes ranged from sheets (right off the bed) to carefully planned robes including purple capes, gold chains, hairy legs, laurel wreaths, several mini togas, Roman sandals tied with string and various other home-made "cree-par's".

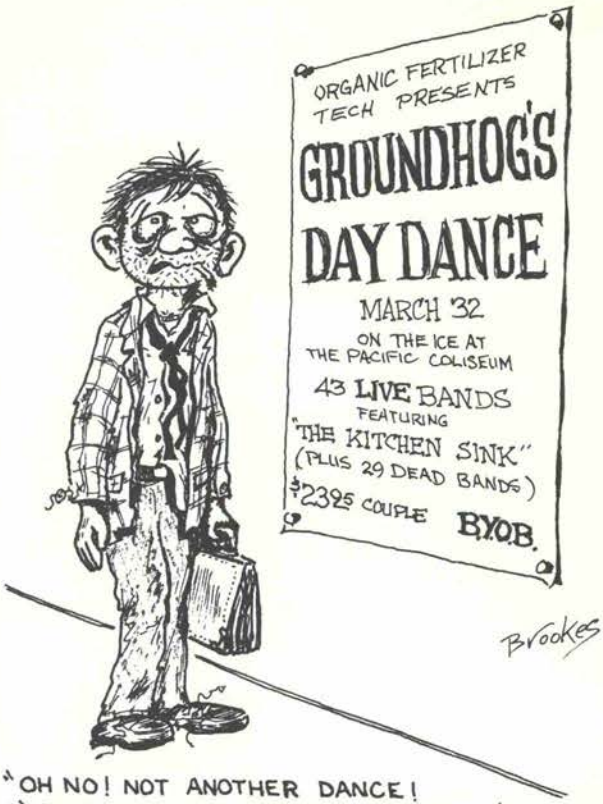
The hall "Alpen Auditorium" was a new conquest and proved to be a good one. The whole building was rented providing and upstairs and downstairs hall with several sets of stairs interspersed with balconies and alcoves - also very appropriate for a toga theme. Playing downstairs was "The Middle Earth" who played up a real storm, so much so they asked if they could leave at 12:15 (Dance 9-1) because their equipment wasn't insured! Upstairs, "The Moonlighters" Trinidad Stell Band, made a totally different atmosphere consisting of West Indian music. The two bands kept crowds frantically running up and down. By the end of the evening, the splendidly attired Romans looked as if they'd been thrown to the lions. Suggestion - that all present enjoyed themselves.





# brookers






"OH NO! NOT ANOTHER DANCE! I'M NOT OVER THE LAST ONE YET!"


"THAT'S ONE FOR THE BOOKS ... SUNSTROKE FROM AN OVERHEAD PROJECTOR."


"WELL, DAD, IF NOTHING ELSE, I'M SURE GONNA HAVE ONE HELLUVA LIBRARY WHEN I GRADUATE."


# sports '68

# inter-collegiate rugby

This year's rugby team won eleven games and lost none; it registered 196 points for and 11 points against; it is the undeniable master of the Junior Collegiate League. Such outstanding achievement must rest in evidence that this year's Panther rugby team is the finest athletic squad that the school has yet produced.

11 wins and 0 losses. . . what does this mean to you? In the beginning it meant three coaches, jerseys for twenty, a sodden field, a schedule of games, abstentions from the sudds, practices near dark, and an abundance of animals called players. Time and endurance proved that such conditions could produce winners. Time and endurance. . . and coaching. . . and begging and phoning, cajoling, organizing and. . . luck and good weather. . . clubs, teeth, boots and Moray's. . . fair play and sensible refereeing. . . fans and good fellows. . . proved the Panthers to be Luvable winners!

A salute to the team and their spirit which inspired the school.

# inter-collegiate rugby

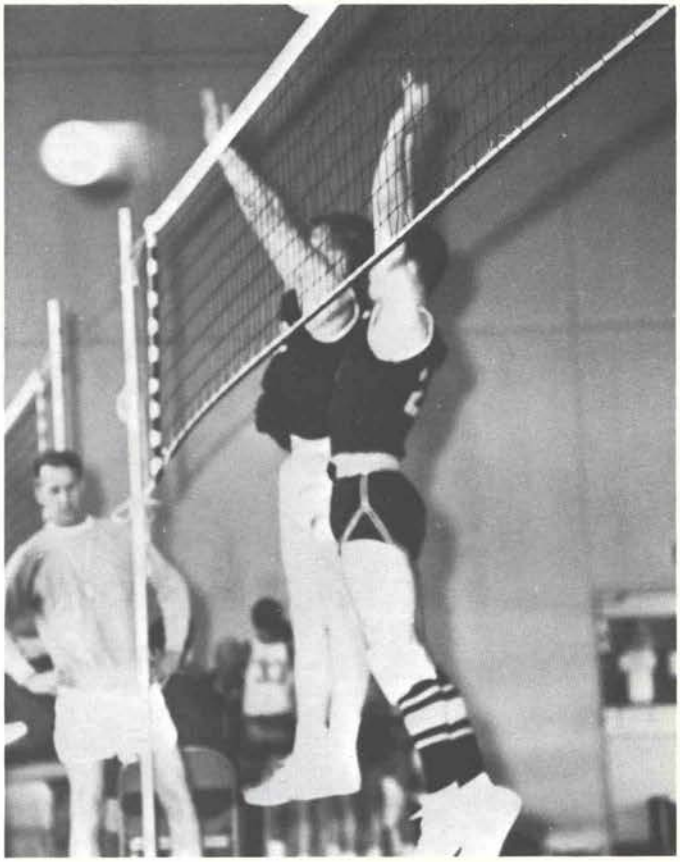
# inter-collegiate volleyball

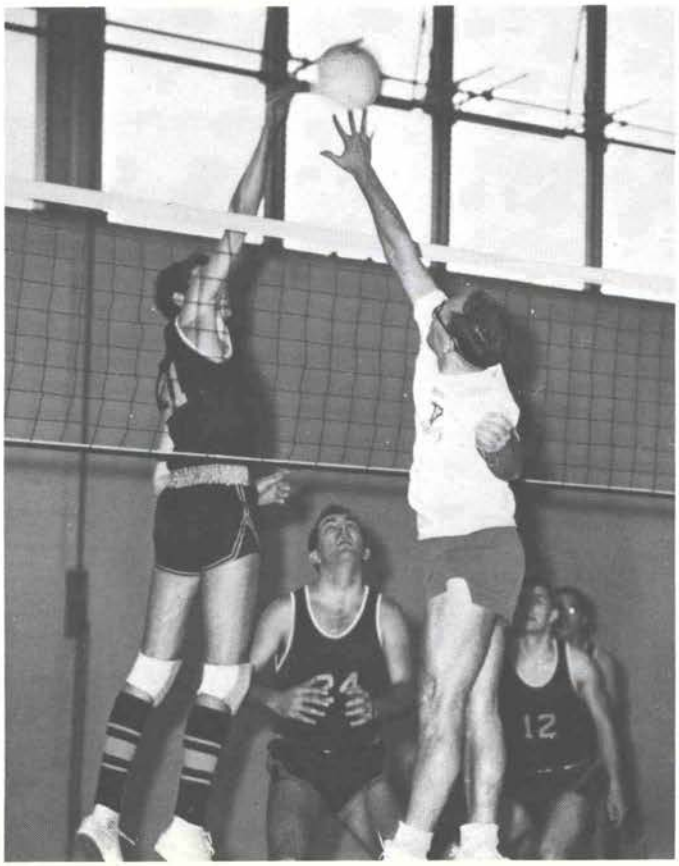

From Senior B to Senior A in one year? Yes, that is the story of our team. A tremendous step in the progress of volleyball at B.C.I.T., but with this being our first year we are having a tough time. The move to Senior A will mean that the program will develop faster with our succeeding teams reaping the benefits from this year's experience.

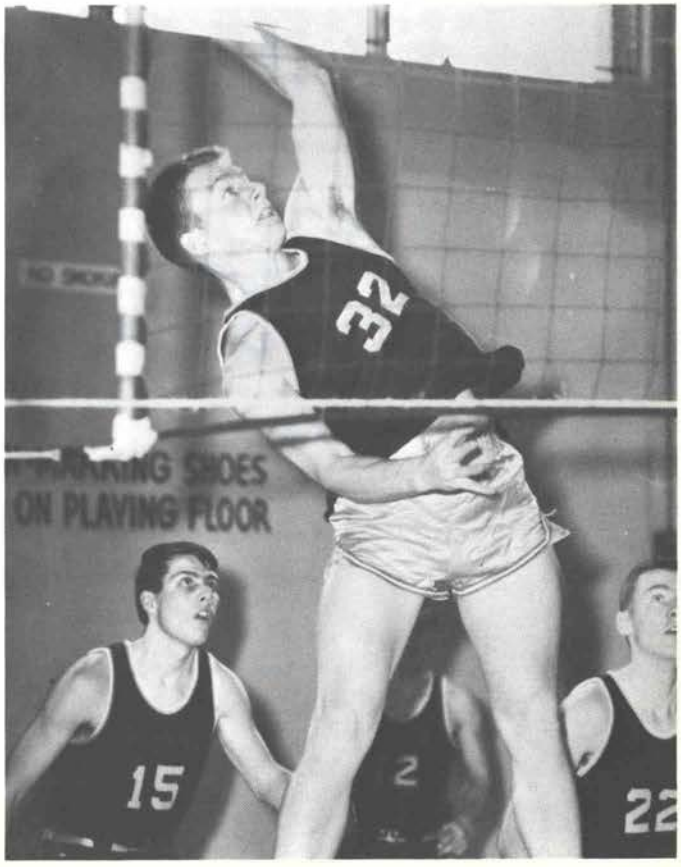
Enthusiasm and desire, these two words could be called the motto or driving force of our team. During the 'boring' practices that were devoted to developing the team's defence, these two words kept the team going and defence blossomed. Offensive practices were started and the team practiced their skills until they thought they would drop.

By combining the skill, desire and enthusiasm our team is winning their share of games and have so far managed to upset such teams as U.B.C. and S.F.U.

# inter-collegiate volleyball



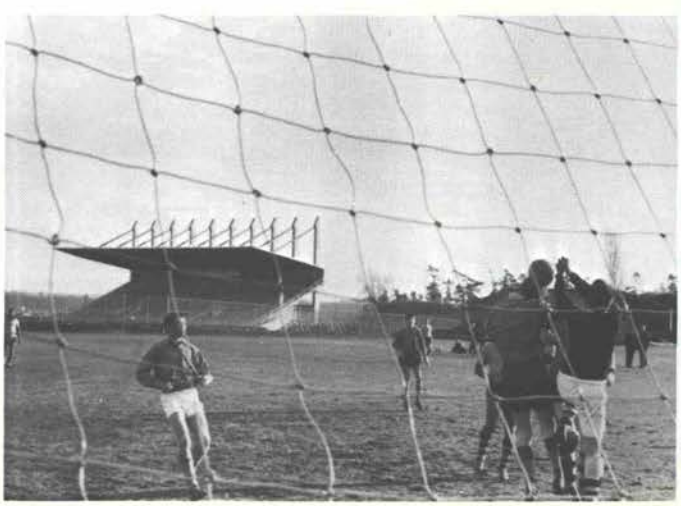



# inter-collegiate soccer

This year marked the second year of competitive soccer at the Institute. The "Dons" as they are affectionately known to the students and staff are playing in the inter-collegiate league against teams from Royal Roads, U.B.C., U. Vic., S.F.U. and Esquimalt Naval Tech. Apprentices, and are holding their own within this league.

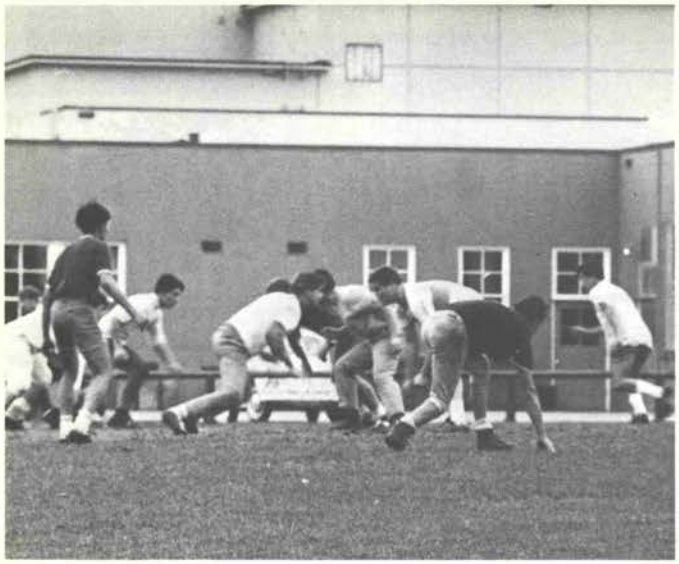
The first game of the year, an exhibition, was played at Royal Roads, and the "Dons" showed their skill, and tenacity by holding a very strong and practised team to a scoreless tie.

In the following games, the "Dons" demonstrated that they are a force to reckoned with, applying the skills and techniques that they have patiently learned from their superb coaches Mssrs. Caldwell, Anderson and Butler and their manager Mr. Cairns. The "Dons" have brought good and consistent soccer to B.C.I.T.



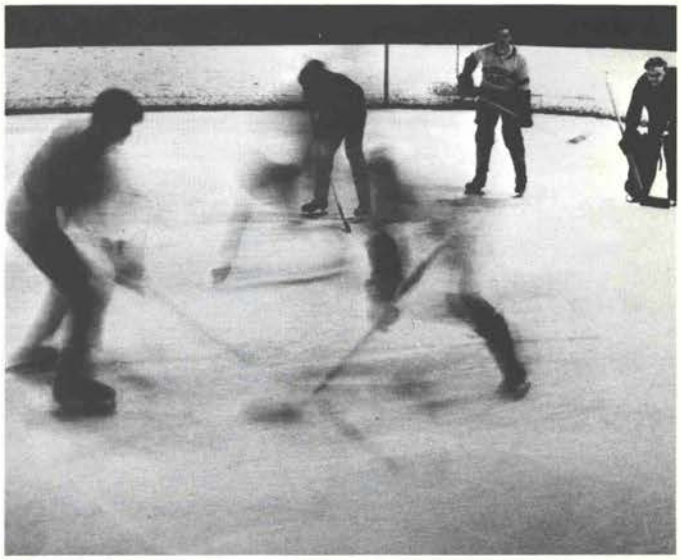
# inter-collegiate soccer

# intramural football



Students had barely settled into a rut when the football season at B.C.I.T. started. Male students, some brave female students and even some staff members braved the adverse elements to participate in this rough and tumble sport.

Business I was the winner of the first year league and C and S II were the winners in the second year league. A play-off game between the two resulted in a tie.

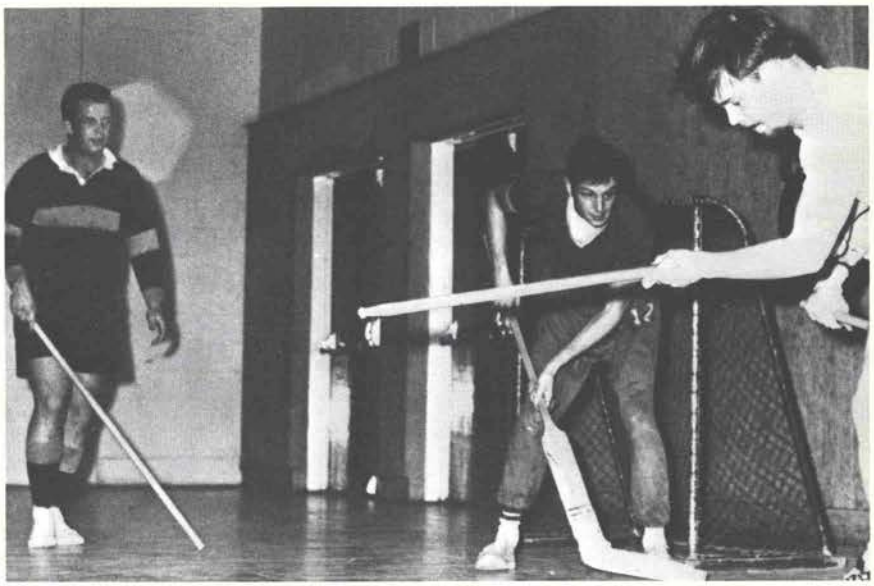


The end of the Fall Term--instead of forgetting the horrors of the first term and resting for the beginning of the Spring Term, one hundred hardy souls started playing a new game--ICE HOCKEY. Organized by the energetic Vice-President of Business, Brian Johncox, and received enthusiastically by everyone, six technologies put up teams to play every Friday night at the PNE Forum.

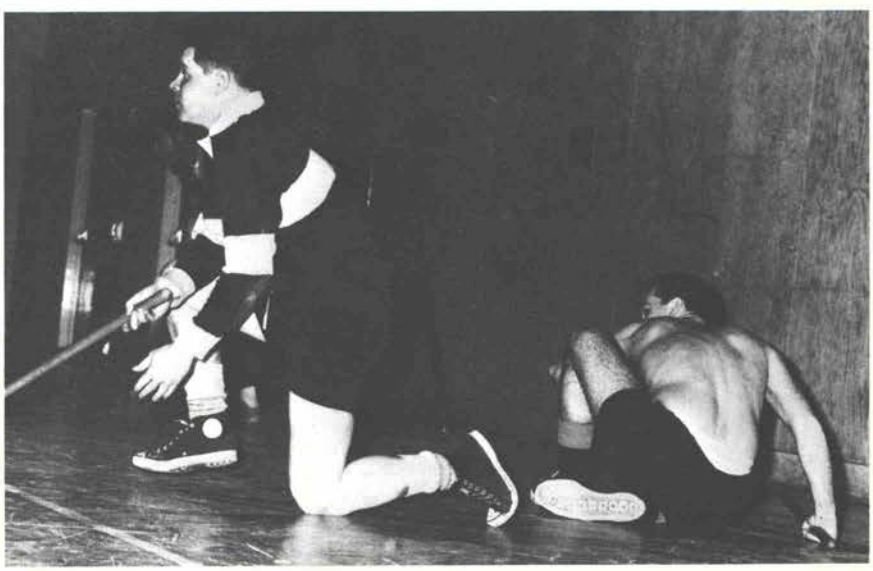
# intramural football

Spring term started and with it the venerable sport of volleyball. Most technologies entered teams and games were played at the Renfrew Community Centre during the lunch hours. Playoffs started mid-February and Forest Products I and Building II were the respective winners. A game was arranged between them and Forest Products I emerged as the school champions.

# floor hockey



Volleyball and Ice-Hockey terminated at the end of February, and it was deemed necessary by the student body to do something with their spare time during the lunch hour. Floor hockey filled the void, and everyone who participated in this active sport at the Renfrew Community Centre thoroughly enjoyed themselves.



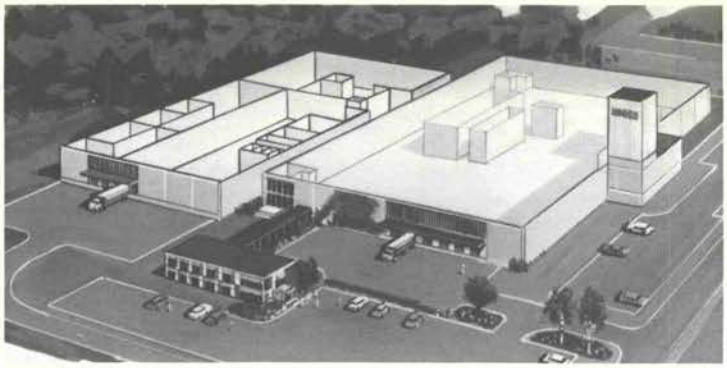
# athletic council

The Athletic Council was officially formed on January 12, 1968 to handle the myriad of problems and overbearing work load of organizing, co-ordinating and administrating our participation in inter-collegiate athletics. Previous to the formation of this council, all matters pertaining to inter-collegiate athletics were handled by Mr. B. Frisby, Director of Student Affairs.

The format of the council is a group set up as a neutral body, with knowledgeable, sports-oriented people who are not directly concerned with any one detail or team. The principle aim of the council is to set policy for teams wanting to participate in inter-collegiate leagues.

The council consists of a non-voting chairman; three faculty members; one alumni representative; four students, of whom two shall be the Treasurer and the Sports' Representative of the Students' Council, one shall be a ladies' representative and one a men's representative.

# messages of importance



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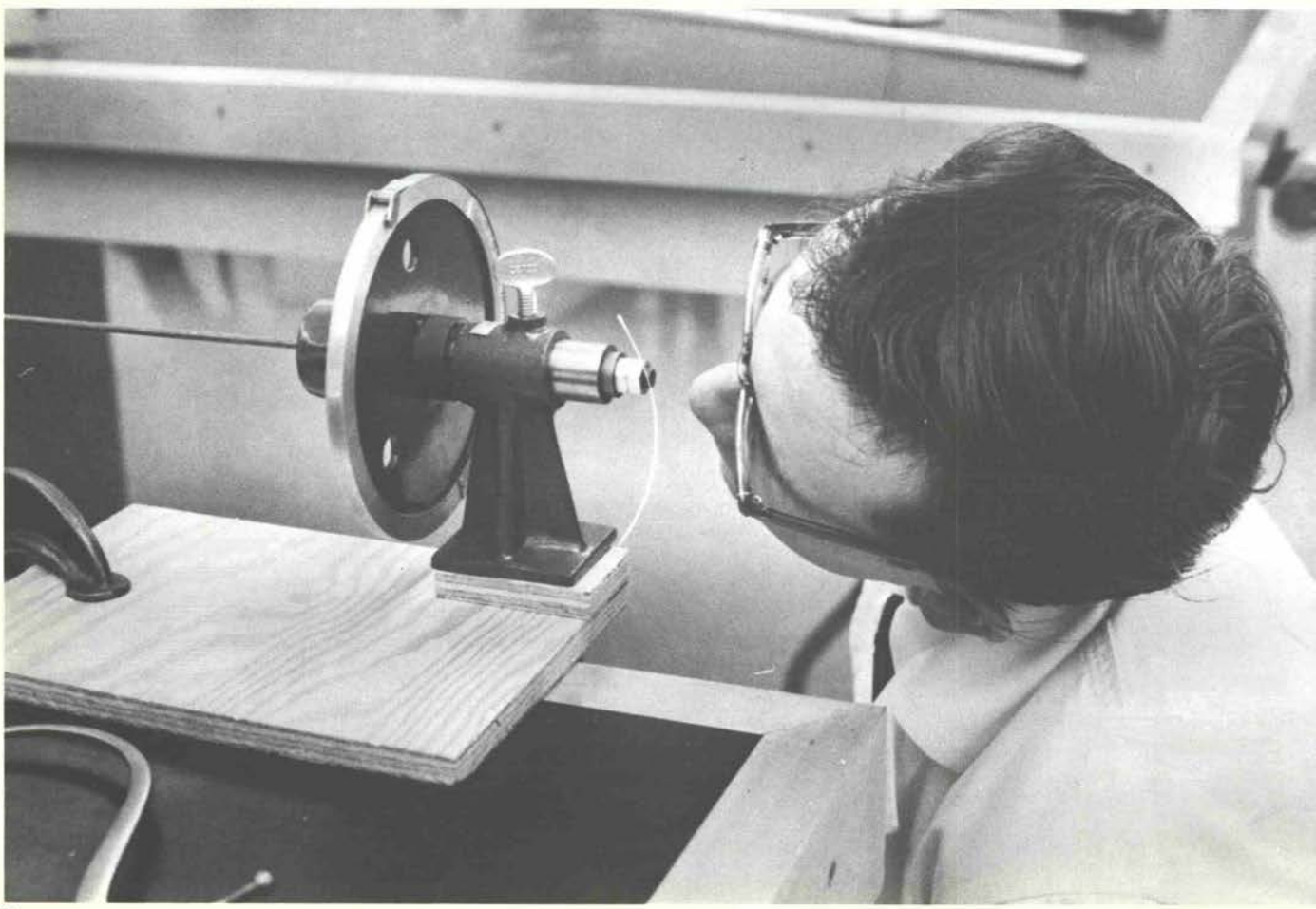

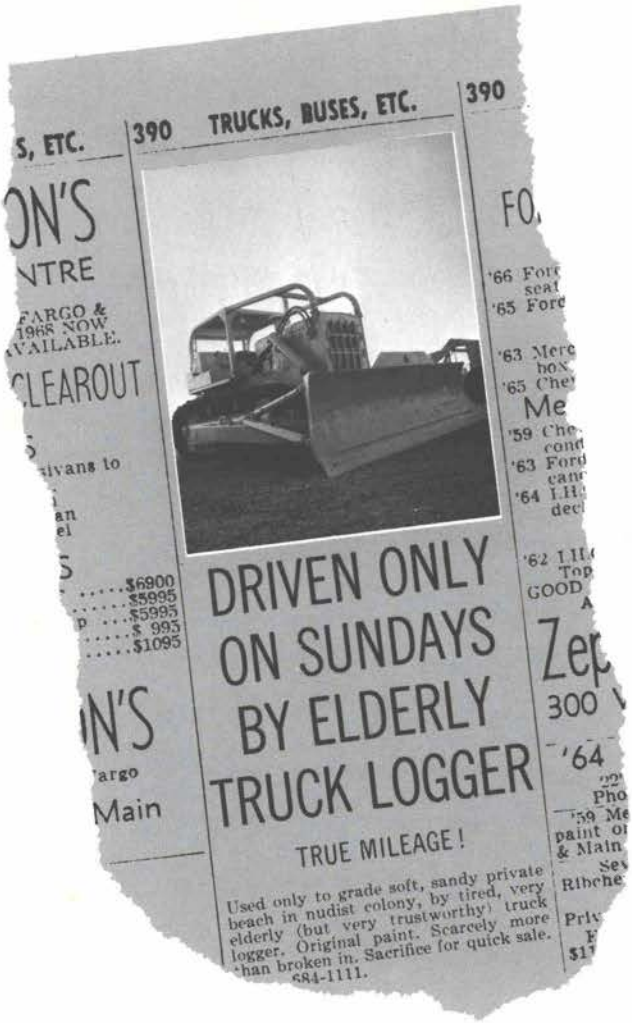


You may never fall for something like that, but you've got to be a little more gullible than most people if you believe that half the used equipment offered privately is as great as the owners claim. Here at B.C. Equipment it's different. When we get a trade-in we automatically assume there'll be problems. All trouble spots are examined. Necessary replacements are listed and brought to the attention of a prospective buyer. Then it's up to you whether you want to buy "as is" or repair to suit your own requirements. But either way, we guarantee you'll know *exactly* what you're getting. Isn't that better than buying "a pig in a poke"?

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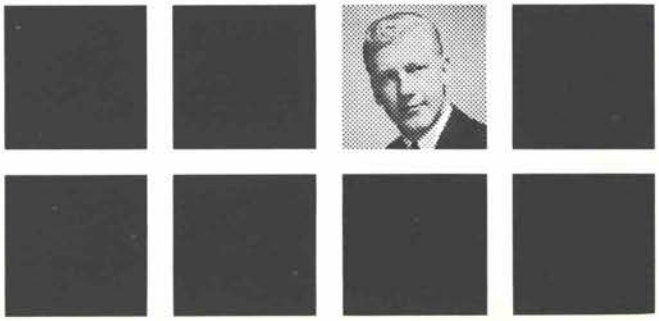

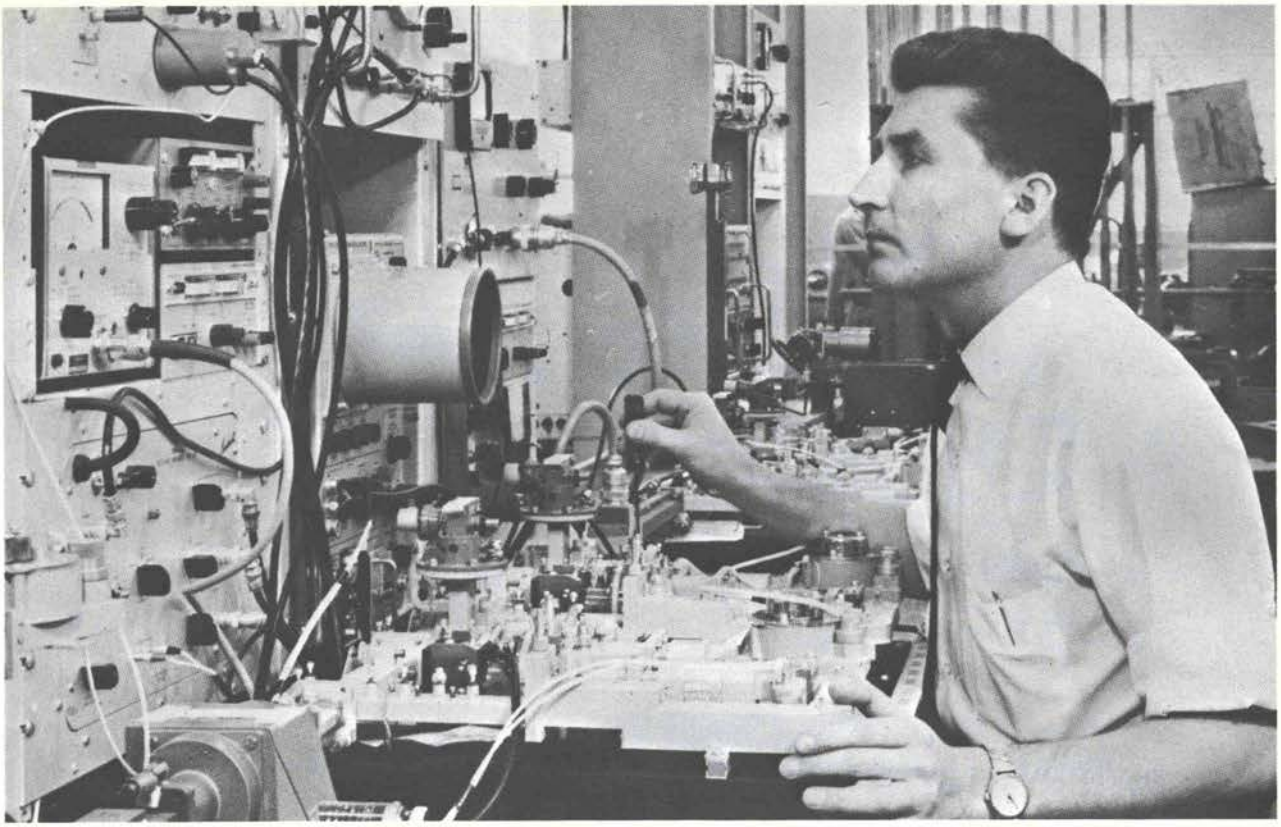

# ELECTRONICS TECHNOLOGISTS

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And while an acknowledged leader in its own right, Lenkurt has the added advantage of being able to call on the resources of a world-wide network of affiliates when it is expedient to do so. The scope is limitless.

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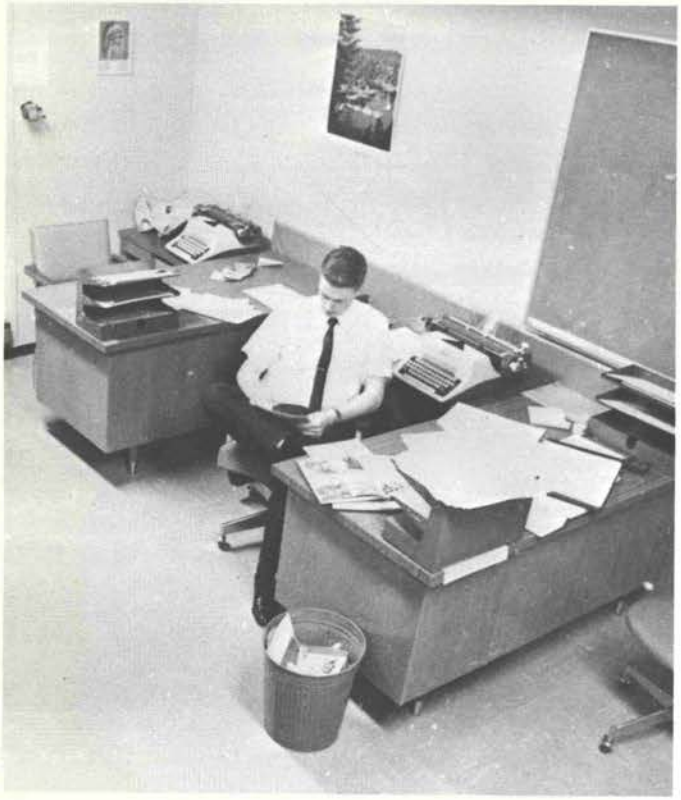
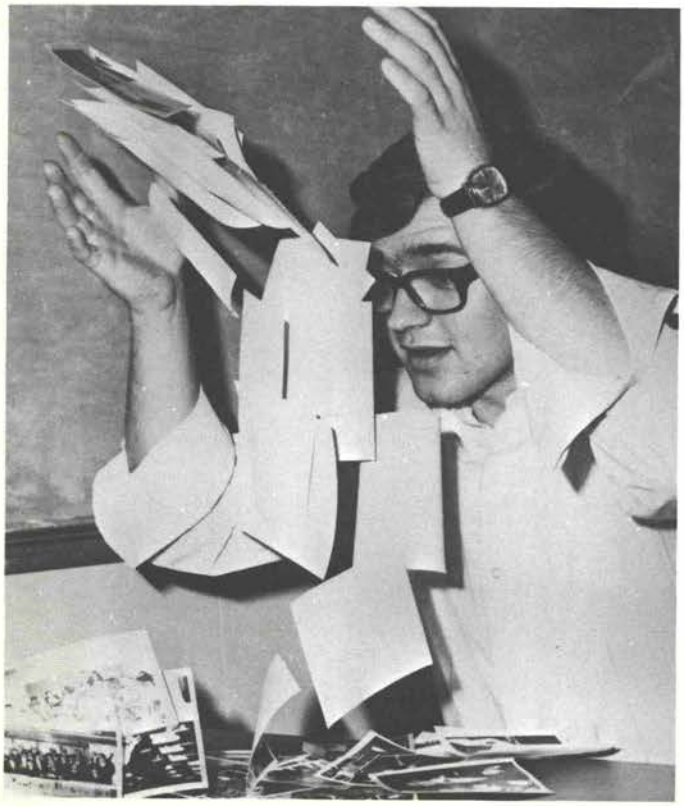
# nucleus staff



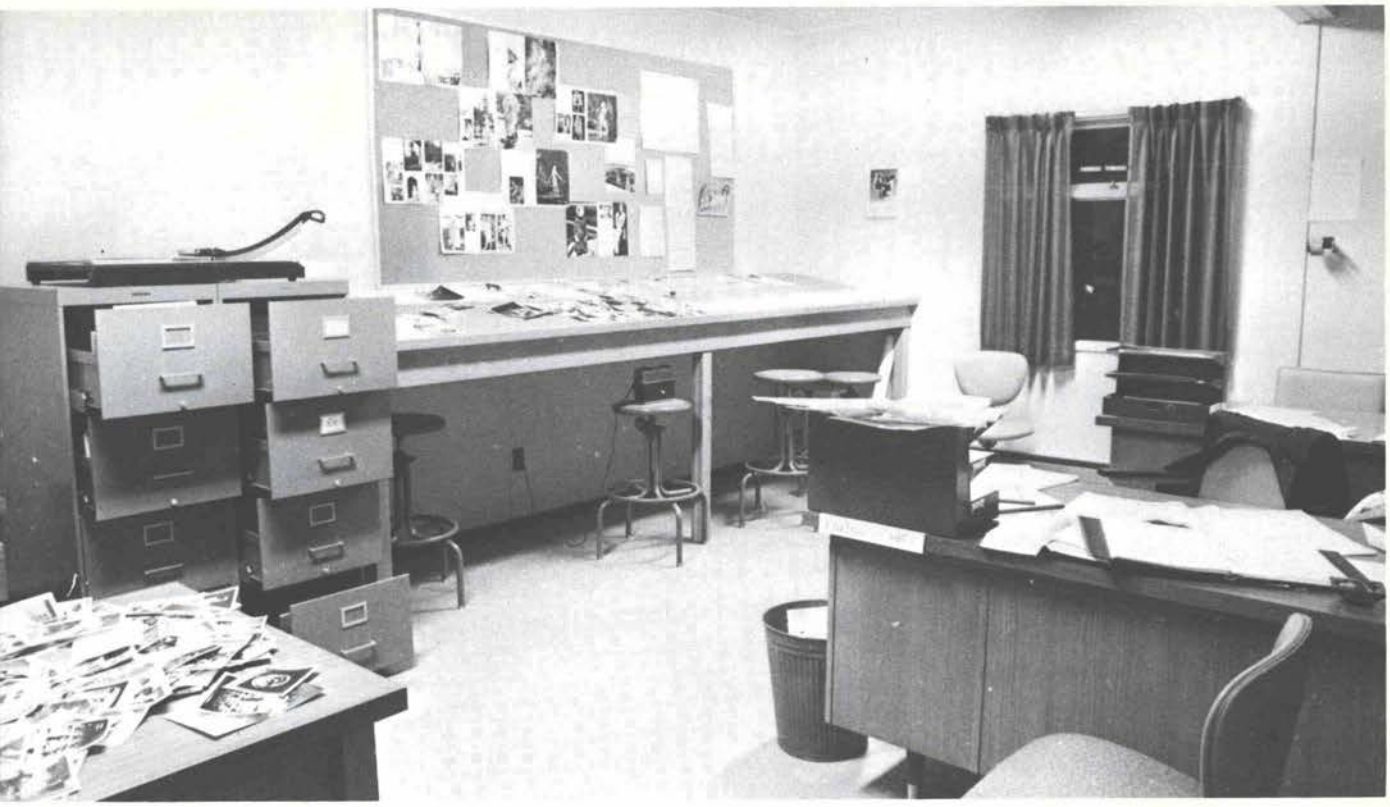
Into the small hours of the night. . .

Kathy McIsaac trying to decipher the hieroglyphics handed her.

Another batch of photos arrives for Sports' Editor Ted Nikiforuk



Ah! that's better.



Nucleus office

Selecting photographs

## staff

*Editor-in-Chief* — *Robert Jens*

*Clubs' and Activities' Editor* — *Lynn Froese*

*Sports' Editor* — *Ted Nikiforuk*

*Typist* — *Kathy McIsaac*

*Those who helped: John Jennings, Brian Cassidy, Steve McKellar, Lyle Wilkinson, Bev Kruse, Diana Bonney, Andrea Zanatta, Pat Murray, Marie Williams.*

# editorial

The last page has been written up and the third edition of Nucleus has been completed. . . at last!

Production of a yearbook commences early in the school year, even before the first student has registered. It commences as a collection of ideas which are sorted out, considered, modified, mostly rejected and in some cases accepted. By the first day of classes a rough format of a 'book' has been conceived. Once classes have commenced, the first organizational meeting is called and the rough outline is presented to the new staff. . . new ideas are brought forward. . . the outline is scrapped and we start again. Slowly but surely, over the ensuing weeks the final layout is developed, a publisher is contracted, the cover is chosen, and the type is selected--slowly the book begins to take shape. Over the weeks, after many late Tuesday nights, the various sections of the book are completed and forwarded to the publisher. Then finally the last photograph has been selected and the final page has been laid out and then. . . it's finished. This is followed by a period of anxiety while everyone connected with the book waits anxiously to see what the final result will be. At last the books arrive, are apprehensively examined and finally handed out to the student body. The long job has been completed!

Now that you have thumbed through this edition, you will have noticed several changes from the previous editions. The cover, although of the same material as last year's book, now bears a gold foil title block containing the Institute crest embossed into the cover. The staff section was discontinued due to the increase in staff as a result of the expansion which took place this year. Instead a section containing the comments of the department heads was published in an attempt to convey to the student an overall cross-section of the institute from the point of view of our administrators. The undergrad section, unfortunately had to be omitted, the reason being the great increase in first year enrollment.

At this point, a tribute should be made to the members of the Photo-Directorate who played a key role in the preparation of this book. Since a yearbook is a photo-journalism production, photographic contributions determine a very great portion of the success of the book. This year's Photo-Directorate, under the capable leadership of Byron Starr and Walter Tamura did an excellent job. Most students have seen at least one member of the Photo-Directorate in action, but few realize the many hours which these people spend in the darkroom developing the film, making proof-sheets, and making the final prints. Thus at this point it is essential that we remember this fact and thank the members for a job well done.

And, finally, to those few students who were the staff of Nucleus '68, I can do no more than extend to them this written word of appreciation--thank you--on behalf of each of you, now and in the years ahead.

For the few staff members, this book has meant hundreds of hours of effort, frustration, and fulfillment in order to provide you with a collection of events from an eventful year, which hopefully will be fondly remembered again and again in the many years to come--that is where this book will play its role. We hope we have designed it to play this role well, but only you and time will tell.

R. Jens
Editor-in-Chief

# acknowledgements

*Photographs*

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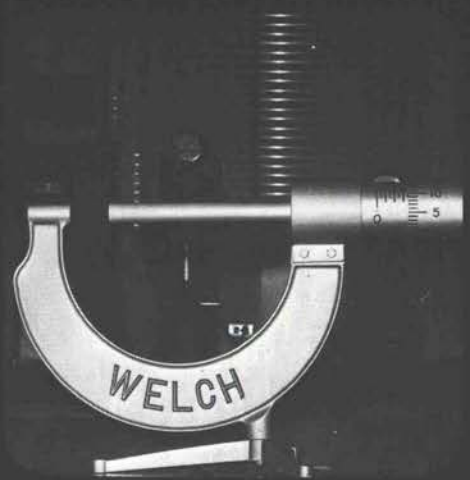
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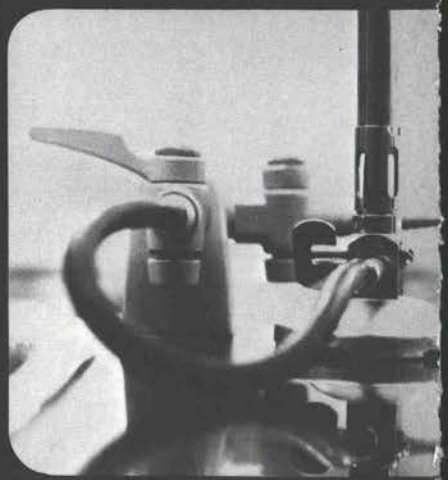

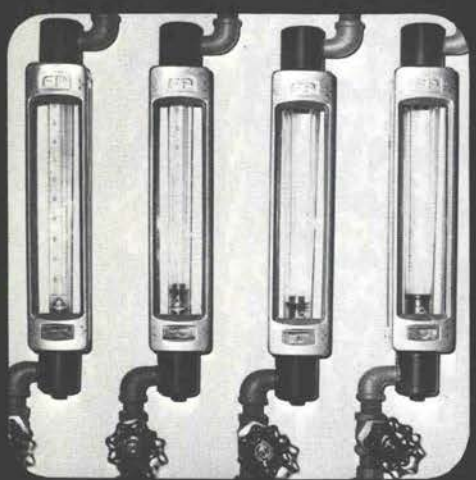

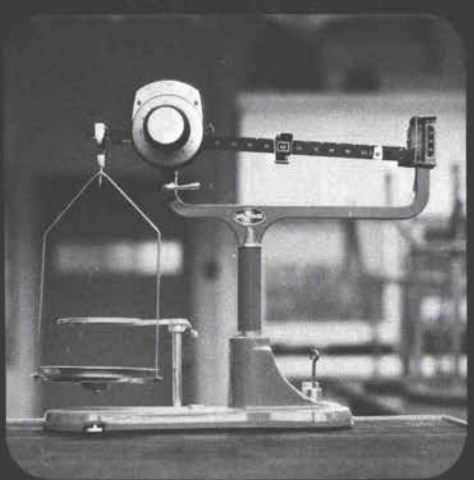

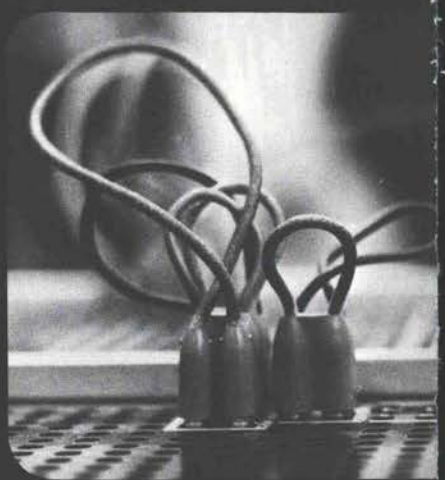

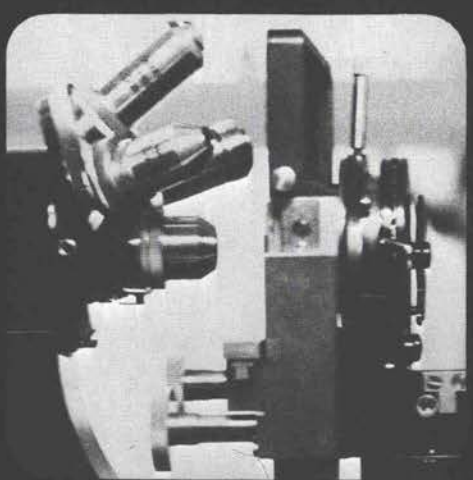


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