

University News

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Dalhousie University

March 30, 1972

Football on sound base

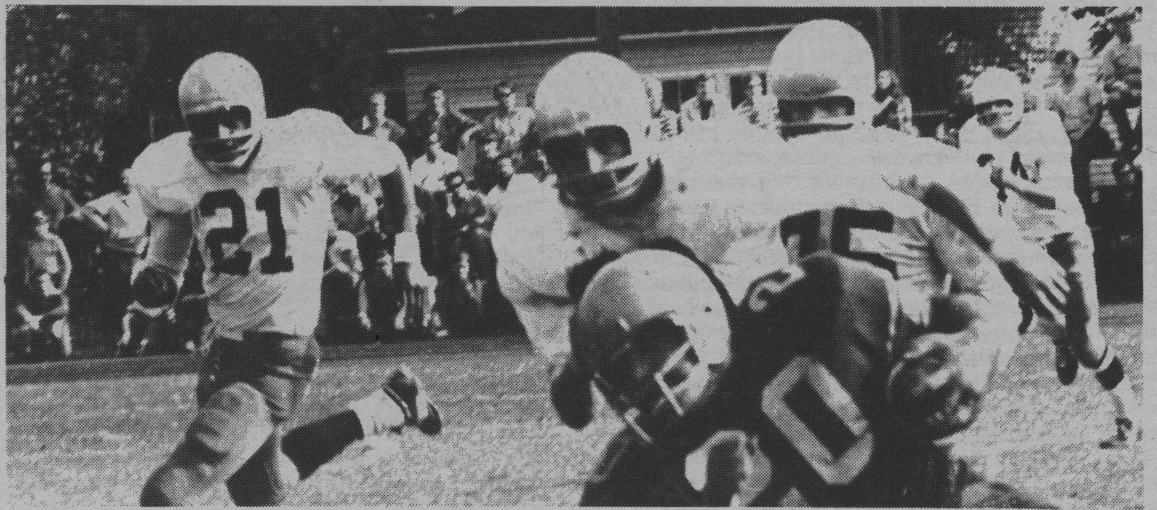
After being kicked around for almost two months, the Dalhousie football situation has come down to earth and a revitalized program for the next academic year is almost a certainty.

The university's Sport and Recreation Council Tuesday night agreed to 11 proposals presented on behalf of the football team, which the players feel will put the sport on a more solid base and make the university more competitive.

Based on the 22 players' original demands, the sanction by the council may not have been a total victory, as originally outlined, but it certainly amounted to a major score. "We are quite pleased with what has taken place," said Rick Rivers, team spokesman and quarterback after Tuesday's meeting.

The proposals based by the council are:

- 1) The football team be allotted five 1 1/2 hour practice sessions a week on the main field during prime time. (Prime time being between 6 and 8 p.m.)
- 2) The recruiting budget for the football coach be increased by \$800 to \$2,000.
- 3) At least one, and possibly two, pre-season games of good calibre be arranged each year.



4) A coach of proven competency be hired as soon as possible. The team will accept a dual role of coordinator of men's intercollegiate athletics and head football coach.

5) Two part-time assistant coaches be hired, devoting 25 per cent of their time to football.

6) Football camp be continued on the same basis as in the past with the exception that meals after football camp be discontinued but the money from these meals be funnelled into some other aspect of football. (This

would approximate \$1,000).

7) In faculties of unlimited enrolment, special efforts be made to have quick decisions made and early acceptance given, if the minimum academic requirements are met. Such students would be expected to maintain their averages.

8) Reconsideration of the administrative structure for competitive athletics.

9) Special consideration for student athletes in the

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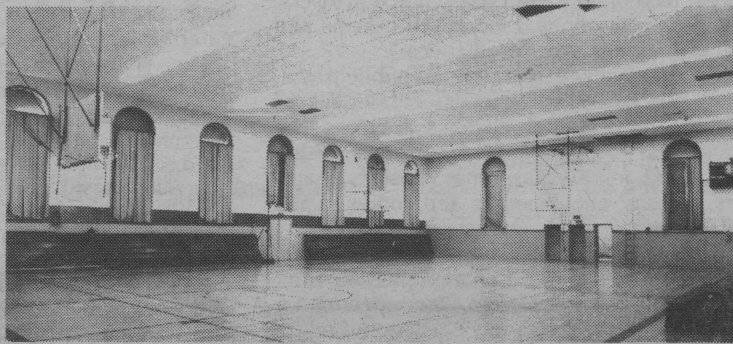
Interim report by Task Force

Lack of communication with students by the Administration, an apparent lack of interest by some staff and officials in their jobs, high tuition fees, classes that are too large, the efficiency of the current form of student government, a general lack of community spirit, and inadequate identification of buildings on campus are among 15 observations listed by the Task Force on the Quality of Student Life in its interim report.

The Task Force, established last year by the president of the Student Union, said in its report, published on March 16, that its "general statements" section was not to be taken as a section of recommendations, but rather as observations in general areas of activity.

The final report of the Task Force, to be released on April 4, will elaborate on the observations contained in the interim report, and will make a number of recommendations.

The interim report is covered in detail on Page 5.



Dal's 42-year-old gym.

Grant assured for phys ed complex

The long awaited physical education and sports complex may soon be a reality at Dalhousie.

The university has been assured of \$500,000 from a private source for the proposed \$5,000,000 complex. The gift is conditional that the university obtained assurance of the remaining money Jan. 1, 1973.

Such a structure would replace the present 42-year-old gymnasium as well as consolidate elements of the school of physical education which are scattered in various buildings throughout the campus.

The present gymnasium was built in 1930 when Dalhousie's total enrolment was 970 as compared with this year's total figure of nearly 7,200.

The school of physical education, founded in 1966, has a total enrolment of 250 students.

Dr. Hicks, Dalhousie president said: "We are hopeful and confident that we can arrange the rest of the financing."

While no concrete plans have yet been drawn up, it is expected that such a complex, which would serve both the university and the community, would contain such facilities as a swimming pool, gymnasiums, indoor courts, lecture rooms, laboratories and offices.

Hostel on campus

Approval in principle has been given by Dalhousie Board of Governors for a youth hostel to be operated in the Dalhousie Memorial Rink this summer.

A request to establish such a hostel for transient youth was made by the Association of Student Councils. The YMCS will assist in the operation of the hostel.

The board's approval is conditional on the hostel not costing the university anything, and providing there is no damage to the rink.

John W. Graham, general manager of the Student Union, and University Vice-President W. Andrew MacKay will study the proposal before making any final commitment.

Mr. Graham said this week that the feasibility of using mini-residences (three houses on College Street rented to students during the academic year) was also being considered in view of the fact that the Rink tended to become hot during the summer.

Discipline code approved

Dalhousie has adopted an academic discipline code relating to offences which involve cheating, impersonation, forgery and misrepresentation.

The code was approved by Senate at its last meeting. Earlier Senate Council considered the interim report of the Discipline Code Committee on academic offences and appointed an ad hoc committee to consider revisions to the report and to make recommendations to Senate.

Senate approved all but one of the five recommendations put forward by the ad hoc committee, and these will go into effect immediately.

It is the first university-wide discipline code Dalhousie has had, and is intended to provide cleaner guidelines about what standards of conduct are expected. In the past, there were examination and other regulations as defined by Senate from time to time, in addition to departmental rules about academic conduct.

The recommendations approved by Senate are as follows:

I Procedures for dealing with academic offences:

(a) The Senate Discipline Committee is vested with original jurisdiction to consider all complaints or allegations respecting offences or irregularities of an academic nature, including those relating to admissions procedures and evaluation procedures, and to impose penalties in cases where the committee finds an offence or irregularity has occurred.

(b) The Senate Discipline Committee shall assume jurisdiction when a complaint or allegation respecting offences or irregularities of an academic nature are attention by the Secretary of Senate.

(c) The Senate Discipline Committee shall report its findings and any penalty imposed to the Secretary of Senate. The of Senate shall forward a copy of the report to any member of the University community whom the Senate Discipline Committee has found to have committed an offence or irregularity and if the member concerned be other than a student a copy shall also be sent to the Vice-President (Academic).

(d) If the member of the University found to have committed an offence or irregularity is a student, he may appeal to Senate on any finding or any penalty imposed by the Senate Discipline Committee by advising the Secretary of Senate in writing within 30 days of receipt of the report by the student.

II Irregularities in admissions procedures

A member of the university who gains admission or assists any other person in gaining admission by any irregular procedure, for example, by falsifying an academic record or by forgoing a letter of recommendation or by impersonating any other person, commits an academic offence and is liable to a penalty.

III Irregularities in evaluation procedures

(A) A member of the university who attempts or who

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GENERAL

Education Building hums with activity

By JOCELYN RAYMOND

There's a new look in the old education building at Dalhousie. It's humming with activity, not just at class time for B.Ed. students, but at any minute of the day when a prospective teacher wants to learn more about the art of helping children to learn.

When the Education Department moved its offices to the Killam Library, the program for the professional preparation of teachers was redesigned.

Dr. Stuart Semple, department chairman, is strong in his conviction that education students must be offered far more than a set of lectures on learning theories and teaching methods.

The Department has put a major emphasis on developing its facilities as a total educational laboratory, committed to individual programs to challenge every student teacher.

As a first step, the department has established three new projects as a centre for Learning Resources. They are a Counselling Centre which offers a Masters degree in counsellor education, the Early Childhood Education Playgroup and Curriculum Centre.

RESOURCE CENTRE

In the Learning Resource Centre consists of two large rooms for displaying and working with curricular materials, a computer outlet room, a workshop for making relief maps and models, a section for learning about the mechanics of such teaching aids as movie projectors or video tapes, a darkroom, and a graphics room for working on learning materials such as posters and signs. There are also a series of small rooms, formerly offices, devoted to special subjects. There are also facilities which permit students to practice instructing their own classmates in very small groups.

The Early Childhood Play Centre is closely associated with the Learning Resources Centre, and every student intending to teach in an elementary school is expected to gain experience there.

Professor Gordon Jeffery is responsible for the overall program and student participation, and his wife receives a small honorarium as the teacher in charge. The Play Centre's enrollment varies between 20 and 25 children, for not all attend every morning of the week.

The centre acts as a live model to illustrate the development of an optimal educational environment. It also reflects the increasing recognition among educators today that work with pre-school children is a

key area in understanding the whole process of education.

ENDORSED

The Learning Resources and Playgroup Centres were the first of their kind to be established in the metropolitan area, and have been endorsed by officials of school boards and of the Nova Scotia Teachers' Union.

Initially, it will cater mostly to students at Dalhousie and Mount St. Vincent, but Dr. Semple hopes that it will eventually provide facilities for continuing professional education. He hopes that a further source of funds will permit the department to provide in-service and pre-service teachers with a chance to work out innovative ideas.

There has already been some community involvement (apart from the Play Centre) in the teaching of computer mathematics to local high school students. Close links have been established with the Nova Scotia Museum in an effort to complement (rather than duplicate) community resources for education.

Early in the year, publishers of texts and educational materials were contacted with a request for demonstration items, so the curriculum display area contains not only copies of the text books currently being used in Nova Scotia schools, but a wide variety of school books and teaching kits.

WORKING PLACE

It is staffed with education students, paid as library assistants. Its prime use, however, is less as a library or study area, than as a working place.

Reading kits, files of do-it-yourself science projects, colour slides, tape recordings, records, film loops and blocks for classification are stored there.

The shelves are stacked with trade publications, brochures put out by school boards, catalogues of books and films, educational reviews such as the Times Educational supplement, magazines which have proven useful in the classroom, posters, pamphlets, maps, atlases, encyclopedias and copies of the informative booklets which industries and travel bureaus make available to teachers at little or no cost.

Indeed, the emphasis is more on imagination than money. In the mathematics area, for instance, a teacher who may complain of a low classroom budget can find countless ideas for putting everyday materials

to use.

There is a collection of games, most of them quite inexpensive, such as three-dimensional tic-tac-toe, which can keep children highly motivated while learning basic mathematical concepts. There are demonstrations of how road maps or sports magazines can furnish a teacher with a wealth of ideas for posing problems that many children will find more interesting than the old apples and oranges routines.

INEXPENSIVE

There are beads and pegboards and balance scales on display, all of which are relatively inexpensive equipment to allow young children to explore mathematical relationships. But for classrooms which must make do with even less, the shelves display alternatives such as pebbles or empty spools in place of beads, styrofoam and toothpicks which can substitute for pegboards, and even an improvised balance scale made of a wire coat hanger with paper cups hung from the cross bar.

There are sets of geometric felt cut-outs for exploring spatial relationships, as well as nail-studded boards with elastic bands to form varying geometrical patterns. For linear measurements there are traditional rulers and tape measures, as well as popsicle sticks, string, straws and skipping ropes. Paper cups, baking pans, foil plates, boxes, tins and packages from the grocery store, bottles and jars in a wide variety of sizes are set out for measuring volume.

This year 186 students were enrolled in the sequential B.Ed. program, with 80 in the last three years of the integrated B.A. and B.Ed. course. The Bachelor's degree is a basic one for teaching, but extra work can cater to individual tastes.

This year, for example, the course in educational psychology was divided into sections, and the students allowed to pick an area of special interest such as the pre-school child, the adolescent or the exceptional child.

With a shortage of teaching positions, it is particularly important to select students who can fill the curriculum areas where teachers are in demand, and, above all, to choose those who are philosophically committed to dedicate themselves to helping every single pupil reach his greatest potential, says Dr. Semple.

Mount revamps Home program

The Mount Saint Vincent University Senate has approved changes in the Home Economics program offered at the university to give new emphasis to family life and consumer studies and to strengthen the nutrition program.

Changes will become effective September, 1972, at the beginning of the next academic year.

The Mount will offer a Bachelor of Home Economics with a General Major which makes provision for concentration in four specific areas of study—Family Studies, Consumer Studies, Home Economics Education and Clothing, Textiles and Design.

Miss Mary Morley, chairman of the home economics department, said this degree will replace the Bachelor of Science with a major in Home Economics Education.

She said there is an increased need for specialists with backgrounds in consumer economics and in family studies to work with individual families. Formerly, many graduates went into the

teaching of home economics in the public school system, but new positions in teaching today are extremely limited.

"The need for home economists with a broad general background and emphasis in consumer economics or family studies is becoming more evident each day," Miss Morley said. "Families and individuals urgently need assistance with consumer problems and it is much better to prevent the problems rather than try to cure them."

Miss Morley said that while consumer education and family and personal relations always have formed a part of home economics, changes in technological and socio-economic conditions of the 1960's have focussed attention on these two important areas.

"With a strong background in food and nutrition, consumer economics, management of personal and family finances, the home economics graduate of tomorrow will be better equipped than ever before to assist families encountering difficulties," Miss Morley said.



Dick Gregory to speak

Social satirist and humanitarian Dick Gregory will visit Dalhousie University on Monday, April 3, to speak on Social or Anti-Social Problems at a meeting at 12:30 p.m. in the McInnes Room, Student Union Building.

First known as a professional comedian, Dick Gregory is today a recording artist, author, lecturer, actor, social satirist, human rights activist, critic, philosopher and political analyst, who combines all these roles to serve the cause of human liberation and to alleviate human suffering brought on by ignorance and apathy.

He was born in a ghetto in St. Louis, Missouri, became a state champion in track and field while in high school, later expanding his honors at Southern Illinois University in Carbondale. On entering the field of entertainment he soon reached the top, making people laugh, listen and helping them to understand one another.

Discipline code

Continued from Page 1

assists any other person in an attempt to obtain, by irregular procedures, academic standing in a course related to any degree, diploma or certificate program, commits an academic offence and is liable to a penalty.

(B) Without limiting possible irregularities in evaluation procedures that may be considered by the Senate Discipline Committee, the following examples shall be considered irregular procedures:

- (a) arranging for or availing oneself of the results of any personation at any examination or test; or,
- (b) attempting to secure or accepting assistance from any other person at any examination or test; or,
- (c) having in one's possession or using any unauthorized material during the time that one is writing any examination or test; or,
- (d) without authorization procuring a copy of an examination, test or topic for an essay or paper; or,
- (e) in the absence of any enabling statement by the Faculty member in charge of that course, submitting any thesis, essay, or paper for academic credit when one is not the sole author; or,
- (f) without authorization submitting any thesis, essay or term paper that has been accepted in one course for academic credit in any other course in any degree, diploma or certificate program.

IV Penalties:

The Senate Discipline Committee, when it finds that a member of the University who is a student has committed an academic offence or irregularity may impose one or more of the following penalties:

- (a) loss of all credit for any academic work done during the year in which the offence occurred;
- (b) suspension of rights to attend the University for a specified period;
- (c) dismissal from the University;
- (d) such lesser penalty as the Committee deems appropriate where mitigating circumstances exist.

The recommendation not approved by Senate was:

V Offences and academic records:

No entry shall be made on the academic record of a student member of the University indicating disciplinary proceedings relating to academic offences or irregularities were taken, or indicating any penalty imposed.

The committee also recommended that where a penalty imposed by the Senate Discipline Committee deprived a student of partial credit for his year's work, and put the student in jeopardy on his year's work under faculty or departmental regulations, the matter should be left to faculties or departments because faculty and departmental regulations varied.

University News

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University News staff: Editor, Maurice MacDonald; General News, Roselle Green, Doris Butters.

GENERAL

Mount, NSCAD sign agreement

The Board of Governors of Mount Saint Vincent University and the Nova Scotia College of Art and Design have signed a five year co-operative agreement.

Designed to reduce duplication of services and establish a framework for closer co-operation in the future, the agreement calls for mutual exchange of library privileges, establishes the mechanism for sharing faculty members and provides for the possible appointment of representatives from each institution to the governing body of the other.

During the life of the agreement, a co-ordinating committee of representatives from the Nova Scotia College of Art and Design and Mount Saint Vincent will review the terms of the agreement and investigate ways of improving co-operation between the institutions.

Both the Mount and NSCAD, however, will continue as separate and independent institutions appointing their own faculty and granting their own degrees.

Mount Saint Vincent University already has a co-operative agreement with Dalhousie, signed September 1969, which provides that students at both universities are able to take advantage of the facilities of each.

Fines must be paid

Marks will be withheld and re-registering for future courses will not be possible while outstanding library bills and fines with the library are outstanding.

As of April 15 fines will be charged on all overdue books. For this reason the library administration has requested that all students renew their loans before they become overdue.

Fines after the April 15 deadline will be steep. Fines on recalls for reserve books have been set at the rate of 25 cents per hour, fines on other recalls are 25 cents per day with fines on overdue materials after April 15 at 25 cents per day, with a maximum fine of \$10 per book.



Dr. S. Delbert Clark

Dr. S.D. Clark first McCulloch professor

Dr. S. Delbert Clark, a distinguished political scientist and sociologist now at the University of Toronto, has been appointed the first McCulloch Professor at Dalhousie University, the president, Dr. Henry D. Hicks, has announced.

Dr. Hicks said the establishment of a number of McCulloch chairs had been approved by the Board of Governors. They are named after Rev. Robert Thomas McCulloch, DD, the first president of Dalhousie, and scholars in the social sciences and humanities will be ap-

pointed to them.

Dr. Clark will join Dalhousie as McCulloch Professor of Sociology for two years from July this year until June, 1974, and after a year's absence, will return for one more year.

Born in Lloydminster, Alberta, Dr. Clark was graduated from the University of Saskatchewan in 1930 with his BA and honours in history and political science. The following year he received his MA in history, also from Saskatchewan.

From 1932 to 1933 he was an IODE Fellow at the London School of Economics, taking political science and economic history, and in 1935 received his MA in sociology from McGill University.

After two years of teaching experience, as an instructor in sociology at the University of Toronto from 1936 to 1937 and as lecturer in political science and sociology at the University of Manitoba from 1937 to 1938, he joined the faculty of the University of Toronto where, in 1938 he obtained his PhD in political science.

From 1938 until the present, Dr. Clark has been associated with the University of Toronto from the rank of lecturer to full professor to chairman of the department of sociology, this latter from 1963 to 1969.

He has served as visiting professor of sociology on three occasions: at the University of California (Berkeley), 1969-61), Dartmouth College (spring term, 1967), and at the University of Sussex (1970-71). He is currently professor of sociology at the University of Toronto.

Dr. Clark was a Guggenheim Fellow, 1945-46, and was elected a Fellow of the Royal Society of Canada in 1953, and won the society's Tyrell Medal in 1960. He was president of the Canadian Political Science Association in 1958-59, president of the humanities and social sciences section of the Royal Society of Canada, 1969-70, and is now honorary president of the Canadian Association of Anthropology and Sociology, a position to which he was elected in 1967. In 1970-71, he was a Canada Council Leave Fellow, and spent the year as visiting professor at the University of Sussex.

V. J. Pottier on part-time law faculty

The Hon. Vincent J. Pottier, retired Nova Scotia Supreme Court Judge, has been appointed to the part-time faculty of Dalhousie law school as a special lecturer in clinical law.

Born in Belleville, Yarmouth County, Mr. Justice Pottier obtained his LLB at Dalhousie. He was a county court judge from 1947 to 1966, when he was appointed to the Supreme Court. He retired from the Bench in 1970.

He is a past-president of the Yarmouth County Fish and Game Association, of l'Alliance Francaise, and was elected Liberal MP for Shelburne-Yarmouth-Clare to the House of Commons in 1935.

Chairs named for first president

The establishment of a number of new chairs, to be known as McCulloch Professorships, has been approved by the Board of Governors of Dalhousie University.

The chairs, named after Rev. Robert Thomas McCulloch, first president of Dalhousie, are in the social sciences and humanities.

Dr. Henry D. Hicks, the president, in announcing the establishment of an unspecified number of the chairs, said they were intended to attract to Dalhousie scholars of rare distinction and with a clear record of achievement in the social sciences and humanities.

The chairs also provided a complement to the Killam senior professorships in scientific and engineering fields. The Izaak Walton Killam Fund for Advanced Studies at Dalhousie was established in 1965 and a number of appointments of senior research professors have been made since then.

Dr. Hicks said that since funds for the new chairs would come from current operating monies, there would be as many or as few such chairs as available funds allowed.

The McCulloch Professorships will be for a duration normally of five years, and will be renewable. "This period," said Dr. Hicks, "should be sufficient to enable a scholar to make a significant contribution to the academic reputation of Dalhousie."

N.B.—\$65.3 million over two years

The New Brunswick Higher Education Commission has recommended that the government of New Brunswick provide grants of up to \$65.3 million over the next two years to the province's universities and colleges.

The major portion of the proposed grants — \$25.9 million in the 1972-73 academic year and \$28.4 million in 1973-74 — will be in support of the operating budgets of the nine provincially-assisted institutions of higher education in the province.

The findings and recommendations in the report, "Flexibility for the 70's", are the result of several months' work following a series of public hearings in New Brunswick.

W.B. Thompson, acting chairman, of the commission said the commission had continued its practice of providing to both the universities and the government, in advance, financial planning guidelines for a period of more than one fiscal year.

The new operating grants program outlined in the report for the next two years will go into effect July 1, 1972, following the termination of the present three-year operating grants program.

The report says that more than 50 per cent of the province's total support for post-secondary education comes from the federal government, under the federal-provincial Fiscal Arrangements Act, with the

remaining portion being provided from the general revenues of the province.

The commission emphasized that its first priority was to provide support to institutions to make available educational opportunities for New Brunswick citizens at the undergraduate level. Operating grants to the institutions are determined by a formula which is related to the enrolment of students.

The new formula introduced two major changes, Mr. Thompson said.

First, operating grants to the universities would be based on the program of study in which the student was enrolled, regardless of which institution the student attended. For example, under the new formula, all universities and colleges will receive equal operating grants for its students enrolled in the arts program.

Second, for the next two academic years, the commission is recommending both a ceiling on the total amount of provincial operating grants, as well as a revenue floor for financial support for institutions.

"Consequently, the upper limit of the government's automatic commitment for support is fixed, while the institutions will also have some assurance of a basic minimum level of support on which they can base their budget planning for the two years", Mr. Thompson said.

The commission believes that

during the next two years a transition will be evidenced in post-secondary education in New Brunswick, including such things as the emergence of possible new enrolment patterns, reorganization of certain training programs, coordination of planning for post-secondary education in a broader Maritime provinces context and more modest levels of public support for higher education.

This transition period will require some adjustments of priorities, policies, programs and financial planning. Realizing that effective adjustments can best be made over a reasonable period of time, the commission believes the new grants program will provide an appropriate framework of time and fiscal resources in which these transitional adjustments can take place.

Capital assistance of \$5.5 million for each of the two academic years 1972-73 and 1973-74 has already been approved by the government under a program which commenced April 1, 1971. Under this program capital grants for new construction are also determined under a formula which is related to enrolments at each campus. In general, this program places a much greater emphasis on the renovation and improvement of existing facilities than on the addition of new buildings.

The commission called on the administrators of the universities and colleges to take much greater heed of the continuing maintenance costs which get built into the operating budgets as a result of adding new buildings to those already in use. The commission cited the need to coordinate more closely both the operating and capital budgets of the province's institutions of higher learning.

Mr. Thompson said that a commitment by the government to support these programs of operating and capital support for higher education in New Brunswick would provide a clear indication of the government's desire to maintain and improve, in a substantial way, the higher education system in New Brunswick. "I hope that the commission and the university community can continue to work constructively and cooperatively to maintain this position in our province".

The commission has also recommended that the government establish a system of community colleges under the control of a new provincial board. The colleges would offer both technical and vocational courses and would also increase opportunities for adult and continuing education. According to the report, some existing institutions might merge with the new college system.

Infertility clinic at odds with abortions

MEDICINE

By JOAN TEED



Dr. S.C. MacLeod

For three years an endocrine and infertility clinic at the Grace Maternity Hospital has been treating patients unable to have successful pregnancies.

Founded and directed by Dr. S.C. MacLeod of the Obstetrics and Gynecology Department of Dalhousie Medical School, this clinic helps an estimated 20% of adult women who are either unable to achieve pregnancy, have had many miscarriages, have fewer children than they desire or have endocrine problems specific to the female.

Does a person have a right to bear children in an age of population explosion? This clinic is helping patients conceive life, in direct opposition to abortion clinics which terminate conception.

Dr. MacLeod describes his position as anxiety-laden, coping with childless couples, then seeing abortions conducted in increasing numbers, which in turn results in fewer babies being available for adoption.

An increasing number of unwed mothers keep their children rather than placing them for adoption. But many others seek abortion. The number of patients seen at the prenatal clinic has dropped tremendously at the Grace Maternity Hospital. Half its former patients were unwed mothers. The low number of adoptive children increases the plight of the childless couple.

HAVE RIGHT

Dr. MacLeod believes that the couples he sees have every bit as much right to have help with their problems of conceiving their own children, as do those patients who have abortions.

"These couples are often very sick at heart, and they have been ignored in the past. They are reliable patients to work with because their incentives are so high."

The cry of Women's Liberation, and believers in "abortion on demand", is "respect for the individual" and the "right to control one's own body". It is this same respect for the individual that moves Dr. MacLeod and his associates to do research on the causes and treatment of the timeless problem of infertility.

Even if the population explosion should in future require a limitation in family, most people will want to have their own children.

Dr. MacLeod and his colleagues at the clinic, Dr. Irving Perlin, and two postgraduate residents in this specialty, Dr. Elaine Jolly and Dr. G. B. Christie, operate the only fertility clinic east of Montreal. They have seen in the last year 390 new patients, and had 2,002 total visits of both old and new patients. Dr. MacLeod estimates 500 new couples this year will seek help at the clinic.

Although sterility and infertility are sometimes used as synonyms, sterility is only correctly applied when an individual has some condition which completely prevents procreation. For this reason, the term infertility is preferable, at least until investigation has been completed.

Many factors may cause the infertility between a

couple, rather than a single defect in one partner. Therefore, the modern concept of the causes presumes the equal responsibility of both partners in the marriage, and investigation is undertaken in both the male and female.

Statistics show that causes are eventually traced to the male in 30% of cases, and in 60% to 70% of the cases to the female, or to combined male and female problems. Sometimes therapy raises the fertility of one partner, and the combined fertility of the couple, who both have problems, is raised enough to make pregnancy possible.

THOROUGH HISTORY

The first step in treatment is a thorough history of the male and female partners. Infertility is coincidental rather hereditary but certain details of the history may contribute to infertility, such as ill-health in adolescence, delayed puberty, venereal disease, chronic infections, overwork, malnutrition, anemia, chronic fatigue, tuberculosis, weight problems, surgery of the wife which might have caused scarring to seal the tubes, and finally sexual relationships.

The emotional status and mental attitudes of both partners must be assessed; psychological infertility is an actual entity.

Subfertility in the male may be caused by either poor, or no, sperm production, or poor, or no, motility of the sperm, or a combination. A complete analysis of semen early in the work-up of a couple is as necessary as a pelvic examination of the wife.

There are many causes of these problems in the male and many are treatable. In cases where infertility is caused mostly by the male, one alternative to adoption is artificial insemination of the wife. Ten couples have requested this in the last six months at this clinic.

Dr. MacLeod has experimented with keep frozen sperm but has not used this method, nor established a sperm bank.

So far, donors are used and attempts are made to match a donor's physical appearance with the husband's.

MORE COMPLEX

The female investigations are much more complex due to the cyclic nature of ovulation. However, the causes of subfertility of the female are 25% hormonal difficulties, 25% cervical, 25% tubal, 5% gross pathology such as tumours, and the remaining 20% a "catch-all" group of combined male and female factors due to subfertility of both, or unexplainable, or for psychiatric reasons.

The hormonal factor is important since the whole reproductive cycle depends on the endocrine system as a whole. Irregularities may cause failure to ovulate, irregular ovulation, or repeated miscarriages in the first three months of pregnancy. A cyclic hormone failure can be treated with hormone therapy. Ovulation can be induced and pregnancy maintained.

This hormone treatment to promote ovulation is the therapy that occasionally causes multiple births. It is due mostly to advances in this field that success in treatment of infertile couples has risen by the great leaps that it has.

In 1950-1960, two out of ten couples could be helped; today it is six out of ten. Dr. MacLeod has seen only one multiple birth as a result of this therapy here, a set of twins.

The second cause, the cervical factor, may have many causes; hormones affecting the cervical mucous, obstruction and congenital abnormalities, infection, and low alkalinity correctable by douching, all make an inhospitable environment for passage of sperm to the tubes for fertilization.

Another cause in the female is the buildup of allergy to sperm, causing antibodies to the sperm to exist in the cervical mucous, thus decreasing the sperm motility. Use of a condom for some months, until the antibody level decreases, is the treatment.

Anti-sperm antibodies have been detected in the semen of men as well, a form of autoimmunity (self-sensitization), usually the effect of an inflammatory disease.

NEW DEVELOPMENT

The third group of causes of female infertility are the tubal factors affecting the anatomy and inhibiting transport of the egg and sperm in the tube, since fertilization takes place there. Anatomical difficulties can be detected easily now with the development of a procedure called laparoscopy.

A simple probe looks at the tubes to see if there are blocks. It is also used to tie tubes in sterilization procedures, leaving only a tiny scar. Plastic surgery of the tubes is improving in success. Physiological factors may not provide a suitable environment for the egg and sperm union and subsequent cleavage. The physiological mechanisms are currently being studied. Many problems remain unsolved.

After completion of specialty training in Obstetrics and Gynecology Dr. MacLeod received further training in research under a McLaughlin travelling fellowship. Because of this, he was able to work with the world authority in fertility research, Dr. J. B. Brown, Melbourne, Australia.

Returning to Halifax, in December, 1964, Dr. MacLeod's practice quickly became predominantly endocrine and infertility cases. The fertility clinic was finally organized in September, 1968.

Referred patients come from all over the Maritimes, mostly from family practitioners, 50% of cases from the Halifax-Dartmouth area, 30% from the rest of Nova Scotia, 20% from New Brunswick and Prince Edward Island. This is another example of the service to the whole Maritime Region which has resulted from research studies undertaken in the Faculty of Medicine of Dalhousie University.

PEOPLE and PLACES

Dalhousie's School of Library Service has received a prize of \$50. from the Atlantic Provinces Library Association as a token of the association's support and interest. It is to be awarded to the "most promising student" in the Masters of Library Service program.

Jean Racine's *Britannicus* will be the next production presented by the Dalhousie University Department of Theatre, in the Sir James Dunn Theatre, Dalhousie Arts Centre. Curtain time is 8:30 p.m. on March 30, 31, April 1 and 2. Tickets are available through the Arts Centre Box Office, 424-2298. Admission is free.

Two noted economists from the United States will give public lectures during the first week in April in Dalhousie University's Killam Memorial

Library Auditorium. Dr. George Borts, professor of economics at Brown University, will speak on Tariffs and Foreign Investment on Tuesday, April 4, and Dr. Richard Musgrave, Professor of economics, Harvard University, will be guest lecturer on Friday, April 7, taking as his topic The Rise of the Value Added Tax. Both lectures will start at 2:30 p.m.

The Centre International d'Alcoologie-Toxicomanies (CIATO) will award a prize of 1,000 Swiss francs for the first time next year for the best doctoral thesis on drug addiction or alcoholism. The centre, founded in 1965, specializes in alcoholism (the

study and science of all phenomena related to alcohol) and psychotoxicology. Deadline for submissions is Dec. 31, and dissertations should be sent to CIATO, 3, Clochetons, CH, 1004 Lausanne (Switzerland).

DR. L.C. STEEVES, Associate Dean of Medicine and Director of Medicine, is project director of a survey of staff physicians in Maritime hospitals. The survey financed by a grant from the Department of National Health & Welfare, covers motivating factors, attitudes and commitment to continuing medical education, office organization, and use of allied health professionals, in relation to high-quality patient care.

DR. CHARLES J. DAVID, assistant professor in the Department of Psychiatry, delivered a paper on the prediction of psychiatric sequelae after kidney transplantation at the World Congress of Psychiatry in Mexico.

Continuing short courses in medical education were presented at community hospitals in the Maritimes during February.

Dr. R.C. FRASER was at Moncton on "Gynaecology Malignancy"; DR. J. P. ANDERSON, at Berwick, Digby, and Middleton, "Paediatrics"; DR. T. J. MURRAY, at Summerside, "Neurology"; DR. A. H. SHEARS at Kentville,

"Value of Physical Medicine"; DR. M.A. MacAULAY, at Lunenburg, Liverpool, Yarmouth and Shelburne, "Lab Medicine"; DR. S.C. MacLEOD, at Saint John, St. Stephen's, Fredericton, Woodstock and Oromocto, N.B., on "Obstetrics and Gynaecology."

On February 23, DR. J. G. HOLLAND conducted a short course in "Pulmonary T.B.," at the Halifax Civic Hospital.

March community short courses include "Early Diagnosis of Cancer" by DR. J.A. MYRDEN at Port Hawkesbury; "Medicine" by DR. G.D. DOUGLAS at Sackville and Sussex, N.B.; "Acute Myocardial Infarction" by DR. R.D. GREGOR, at Amherst; "Neurology" by DR. L.P.M. HEFFERNAN, at Windsor and "E.N.T. (Specialty Surgery)" by DR. M.N. WALI at Truro.

INTERIM REPORT

of the Student Union President's TASK FORCE ON THE QUALITY OF STUDENT LIFE

THE AIMS OF THE TASK FORCE

The Student Union President's Task Force on the Quality of Student Life was established:

1. To Study, recommend and animate ways in which the life quality of the Student Union may be more meaningful and satisfying to the student;
 2. To study current activities of the Student Union in relation to their meaning to the student population, with an emphasis on producing meeting and growth; and
 3. To investigate and receive briefs and suggestions from the student population or the student-related community.
- Its powers are:
1. To assemble facts and information on any student or student-related activity;
 2. To submit reports and recommendations to the appropriate authorities;
 3. To investigate and follow through on recommendations to completion, to the satisfaction of the Task Force; and
 4. To recommend to the President matters requiring immediate and obvious attention at any time during the first twelve-month period.

Task Force members

- Chairman, D. Ray Pierce;
 Core Members, Wayne W. Hooper, James G. Sykes;
 Special Consultant, Marvin Burke;
 Public Relations, Andrew B. Cochran;
 Advisory Team, C. O. Norwood, John W. Graham, Thomas Carter, Marlene Webber, Jack Dougall, Don Grady, Rev. Donald Trivett, Andrew B. Cochran;
 Secretaries, Linda MacDonald, Mrs. Jeanne Campbell, Mrs. Pamela Tomlinson, Barbara Franks, Sharon Mossman, Mrs. Beverley Myers, Mrs. Carolyn MacIntosh.

Co-operation the Key

"Co-operation is perhaps the key in solving all of the problems we have identified," says the Task Force in the introduction of its interim report.

"We have already found that many problems on the Dalhousie campus are those that have originated from rumor, assumptions and the failure of

people to properly document and identify areas in which they work."

The Task Force said — its interim report was not intended to be a detailed analysis of the programs it had undertaken but rather was to identify the programs and to give a general picture of the current situation.

Administration criticized

Nine direct and two indirect references to the Administration — those who administer the university — are made in the 15 observations listed by the Task Force in its interim report.

Two refer to the Student Union, one mentions the faculty, and another is of a general nature.

The Task Force points out that its observations should not be taken as a section of recommendations but rather as observations in general areas of activity.

- The observations:
- a) There are a number of officials and staff members at Dalhousie who have a seeming lack of interest in their current jobs. A certain naivety on the part of these officials and others concerning the student body was also noted.
 - b) There is a general lack of communication with students by the Administration, concerning services and programs available, producing general confusion in the student body, and individual misunderstanding of

situations which can only be detrimental if allowed to continue.

- c) In the minds of the general student population, the Student Union has become an extension of the Administration and, as such, is not a body with which the students readily identify or sympathize.
- d) The word "apathy" is too frequently used as an excuse by planners for poor participation in the programs they have forced upon the student body.
- e) The lack of direction in the minds of many students at this university is fostered by the Administration's lack of communication of the university's purpose and goals.
- f) In the minds of the student there is no understanding whatsoever in the differences between education and vocation prior to entering university, nor with the role of the university in regard to these two processes.

- g) Written statements concerning programs and policies are ineffective in obtaining the understanding of students and it is necessary to communicate on a more personal basis.
- h) Future employment, or the lack of it, is a major concern of students and no one is efficiently or sufficiently explaining the situation at this time.
- i) Large classes and the competitive, and many times inexperienced marking of papers and projects, are sources of discontent in the student body.
- j) The current form of student government is questionable in terms of its efficient and effective operations.
- k) The majority of the students are uninformed concerning the activities, services and relevance of the Student Union.
- l) Night lighting, access routes, poor identification of buildings, as well as the lack of directions within structures, are sources of con-

fusion to more than just first-year students.

- m) The high cost of education has reached a critical point on this campus and any increase would place the university and its Administration in jeopardy.
- n) There is a general lack of community feeling and spirit at Dalhousie, a situation which cannot be attributed solely or directly to the current size, nor to the fact that Dalhousie is, essentially, a city university.
- o) Orientation is of prime importance and concern. Disenchantment with the academic and social activities of this university is borne during the first year of the students residence at Dalhousie. We also observe that, while the administration and Student Union appear to be doing their utmost to acquaint a student with his new surroundings, it is the faculty of this university and their failure to become involved who are contributing to the problem.

High cost kept most away

The large percentage of students who either did not return to Dalhousie or did not enrol after being accepted, stayed away because of the high cost of tuition, according to the Task Force.

The Task Force asked 760 of 2,000 students who did not

register or re-register for the current year why they did not, and the largest group of those who replied gave the high cost as the reason.

Four other reasons given by students for not enrolling were:

- Lack of scholarship monies (it was noted that those who gave this reason received scholarship or bursary money from other universities);
 Lack of undergraduate programs adequate to students in particular fields;

Another group left to find work when they became discouraged at future job opportunities; and

Notification of acceptance to the university too late, by which time applicants had received notice of acceptance from other universities.

Large classes most common complaint

Nearly 20 per cent of the 400 students living in Shirreff Hall were visited by various members of the Task Force during its residence visitation program.

A number of problems and

positive points concerning the university environment were identified.

The most common complaint concerned large classes, the emphasis being placed on the

Sociology 100 area. The next most frequent complaint concerned tuition fee increases and those dissatisfied with current tuition fees.

The education aspect of the university could not be disregarded. The students complained about introductory courses and the lack of challenge in the undergraduate program in general. Hence the requests for submissions from the academic area and to the Task Force's decision to survey various classes.

Students indicated that they felt a lack of communication with the Student Union. One student thought the Student Union was similar to a labor union. This was not a particularly isolated case as

it was mentioned again in a number of other visits and other similar interpretations of the functions of the Student Union were indicated.

Twenty eight negative points or problem areas were identified during the Shirreff Hall visits, and only seven positive areas were identified. Library services were praised highly.

There was satisfaction with the general social life, but only a small percentage showed favor with the sports and recreation programs at Dalhousie.

The second visits were to Howe Hall. The findings of this program, along with those of the third such operation, in Fenwick Place, have not been tabulated. The final report will carry more details about the program.

Survey, visits, briefs, hearings

The Task Force used a survey, written and oral submissions, open hearings and visits to student residences as methods of data collection during its investigations.

The survey undertaken was designed by Rev. Donald Trivett of the university chaplains and Jack Dougall of the Institute of Public Affairs, two of the Task Force's advisers.

The Task Force said it received

generous assistance from the Deans of various faculties, in particular Medicine, Law, and Arts and Science.

The survey went to about 3,500 undergraduate students.

Submissions were invited but not restricted to invitation. Says the Task Force: "We are somewhat unhappy with the content of solicited submissions and extremely happy, on the other hand, with the information

contained in the volunteered submissions that we have received."

Forty submissions were requested and more were due before the end of the investigations. Eighteen were dealt with at the open hearings.

Four open hearings were held, one in Shirreff Hall, one in Howe Hall, and two in the Student Union Building.

GENERAL

Building, buying homes spotlighted

Dalhousie University's Institute of Public Affairs will sponsor a six-evening, weekly, lecture-discussion series on building and buying homes, in co-operation with Central Mortgage and Housing Corporation.

The series is intended for prospective homeowners who are planning to buy or build, and will be given Wednesdays from April 5 to May 10, in Room 228, Dalhousie Arts and Administration Building, beginning at 8 p.m.

Topics in the series include renting versus home ownership, methods of financing, legal aspects of acquisition, contracts and liens, selection of site and neighbourhood, review of architectural services available to homeowners, and elements of construction.

The introductory lecture, on Wednesday, April 5, will be given by D.A. Hughes, Manager, Halifax Branch, CMHC. Renting versus ownership, methods of financing, down-payment requirements, rights and expectations of tenants, condominium housing, mortgages, titles, insurance premiums, and National Housing Act requirements will be discussed.

The following week, on April 12, John M. Way, architect, will review architectural devices available to homeowners.

The third lecture, entitled, *The Neighbourhood*, April 19, will be given by Professor Dimitri Procos, School of Architecture, Nova Scotia Technical College. Attention will be given to selection of site with regard to services, traffic, schools, future growth, bylaws, and zoning regulations, and elements of good design.

G.B. Robertson, Q.C., will lecture on legal aspects of tenancy and ownership, taxation, building contracts, liens and holdbacks, mortgages, etc., on April 26.

Materials, methods, finishing, the opportunities and limitations of "do-it-yourself" approaches, and what to look for in buying an older house will be considered by Kell Antoft, Institute of Public Affairs, Dalhousie University, on May 3.

Student representation increased to four

Student representation on the Dalhousie Board of Governors has been increased from three to four, the Board agreed at its last meeting.

The step was taken to enable the past-president of the Student Union to continue his membership on the Board for an additional year. Where a vacancy occurs because of the continuance in office of an additional year of the President of the Student Union, or for any other reason, the Student Council may nominate someone to fill the vacancy.

John W. Graham, general manager of the Student Union,

was re-elected for a second three-year term; W. Brian Smith, President of the Student Union for the second consecutive year, was elected for the year from May 1, 1972 to April 30, 1973. W.E. Henderson is completing the second year of his two-year term as the third Student Union representative.

The Board also agreed to recommend to the Governor in Council that four members whose term expires on April 29 be re-appointed for a six-year period. They are Col. J.C. MacKeen, Frank M. Covert, John H. Delaney and Roy A. Jodrey.

The Board still has five vacancies to be filled by recommendations to the Governor in Council.



Six projects at Dalhousie

Six of the 18 Student Summer Research Scholarships awarded recently by the Atlantic Provinces Inter-University Committee of the Sciences are for projects to be carried out at Dalhousie University.

Ronald S. Cunningham, Acadia University, \$900, Biochemistry, under the direction of Dr. M. W. Gray; Susan Rosslyn Dempsey, Saint Mary's University, \$1,100, Biology, under Dr. W. Kimmins; David P. Higham, \$1,100, Mathematics, under Dr. F. J. Servadio, and Lynn M. Smith, \$1,100, Geology/Oceanography, under Dr. M. J. Keen. Both are students of Mount Allison. Also, Linda M. Walsh, University of New Brunswick, \$825, Psychology under Dr. J.A. McNulty; and Gerald R. MacKay, Acadia, \$1,200, Physics under Dr. W. Leiper.

Among those who attended a seminar of Multivariate Statistical Inference at Dalhousie were, left to right: Dr. R.P. Gupta, Dalhousie University; A.P. Dempster, Harvard University; I. Olkin, Stanford University and D.G. Kabe, Saint Mary's University.

Seminar successful

A Research Seminar on Multivariate Statistical Inference held at Dalhousie last week, has been termed an "outstanding success" by the participants.

Dr. R.P. Gupta of Dalhousie and Dr. D.G. Kabe of Saint Mary's University were co-organizers of the three-day seminar which attracted 70 statisticians from various centres in Canada and the United States. This included some of the leading research workers.

It was the first such seminar to be held in the Atlantic Provinces.

Keynote speakers included Profs. A.P. Dempster, Harvard; D.A.S. Fraser, University of Toronto; I. Guttam, Universite de Montreal; A.G. Laurent, Wayne State University; I. Olkin,

Stanford University and S.R. Searle of Cornell. A total of 26 papers were read at the seminar.

Dalhousie was represented by 15 people, including five graduate students. Session chairmen included Dr. C.A. Field, Dr. R.P. Gupta, Dr. W.R.S. Sutherland and Dr. A.J. Tingley of Dalhousie University and Dr. D.G. Kabe of Saint Mary's University.

Visitors were formally welcomed by Dr. H.D. Hicks, Dalhousie president, and Dr. Owen Carrigan, president of Saint Mary's. Both institutions held receptions for the participants.

The seminar was considered by the organizers to be one of the most significant conferences of its kind ever held in Canada. The proceedings will be published at a later date.

Tenders called

Tenders have been called for the exclusive right to provide food services at Dalhousie for 1972-73 and will close at 3 p.m. on April 14.

The tender call covers operations of the dining halls in the two campus residences, Howe and Shirreff Halls, the cafeteria grill in the Sir Charles Tupper Medical Building, and special university functions.

The Student Union has also called for tenders for the operation of its cafeteria and special events.

Gallery closed for five days

Cancellation has been announced by Dalhousie University Art Gallery scheduled for Tuesday, April 11, at 12:15 p.m. in Room 406 of the Arts Centre.

Also, during the period from April 10 until 5 p.m. on Friday, April 14, the Dalhousie Art Gallery will be closed to the public.

Football on sound base

Continued from Page 1

area of campus employment opportunities.

10) Consideration be given to rescheduling labs to 1:45 p.m. from 4:45 p.m.

11) Twenty spaces in residences be reserved for students who make a contribution to the total university life other than academic.

The proposals, moved by Dick Loiselle and seconded by Dr. Bill Kingston, were passed by a vote of 5-4. An earlier amendment, regarding the playing field, was defeated 5-4.

Tuesday's meeting marked the second time within a week that the football question came before the council. At an earlier meeting six proposals were adopted in what was termed a "watered down" form. At that time the points passed council by a 6-5 margin with university vice-president W.A. MacKay, council chairman, casting the deciding ballot.

That set the stage for Tuesday night's deciding session attended by nearly all 22 returning football players. The team had earlier set an April 1 deadline on a commitment to football.

It was apparent there were two distinct factions

regarding the status of football on campus.

Al Yarr, associate professor in the School of Physical Education and basketball coach, said: "All teams here are sharing a certain pie—I don't think that any team should be given a special status so that they get whatever they want—everyone should get a chance to compete and develop without special status."

Rivers replied that the football players were not seeking special status but only "minimum requirements" to be competitive.

Tony Richards, also on the phys ed staff and university soccer coach, said: "I don't feel that any team should be prepared to take less than got last year." He expressed a fear that budgets for other sports might be cut if a greater emphasis was placed on football.

Council chairman MacKay stressed that "with faith on both sides we can come to a reasonably happy conclusion."

He said that he, personally, felt that football was important at Dalhousie and the question of its con-

tinuance" depends on our capacity to embilize our resources and support coupled with the willingness and the faith of the players to continue."

He said he appreciated that way in which the matter was brought forward by the players. Congratulating Rivers and the other footballers he said, "You spent a great deal of time on it and did a first rate job."

The first prospective football coach is expected on campus today and to meet with representatives from the administration and the football team.

Following the meeting, team co-captain Bud Snow said: "Our whole concern was not prompted by selfish motives—we will certainly benefit by an increased emphasis on football, but our main thoughts are for the student athletes who will come to Dalhousie after we are gone."

The proposals may be somewhat less than the total commitment asked for by the football team, but the feeling of the players is that the compromises should put the Tigers in a new light next season.

ARTS

Special invitation extended to parents

Parents are especially invited to bring their children to the opening of April's major exhibition — that of Leonardo da Vinci's models — at the Dalhousie Art Gallery.

The exhibition, circulated by IBM of Canada, will be opened between 5 p.m. and 6:30 p.m. on April 14 by contralto Maureen Forrester, who will be giving a concert later that evening in the Rebecca Cohn Auditorium.

Gallery director Ernest Smith has invited parents to have their children share the ice cream and pop that will be served on the occasion. Parents intending to bring children are asked to inform the Gallery at 424-3532.

The da Vinci exhibition consists of 25 models built from the scientific and technical drawings of the 15th century Italian genius who foresaw many modern inventions centuries before their time.

Included are models of Leonardo's versions of the machine gun, the helicopter, the parachute, the breech-loading cannon, the armored car and the anemometer.

The exhibition continues until May 3.

Other exhibitions during April include the whimsical collection

"Toys Toys Toys" by artist Dennis Le Page.

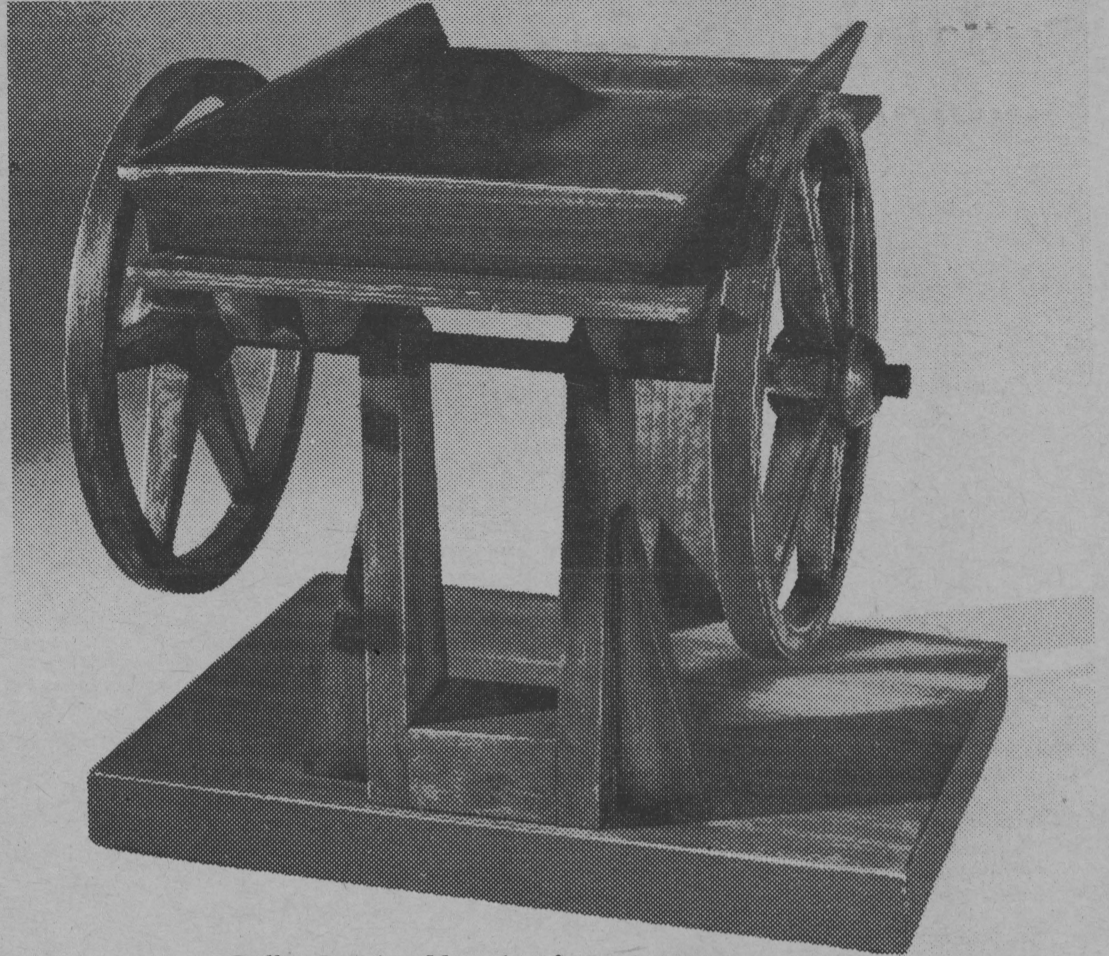
Circulated by the Art Gallery of Memorial University of Newfoundland, the Le Page exhibition consists of a group of large plywood cutout pieces and forms, some hanging and some freestanding.

Basically, Le Page has concerned himself with such pop representations as racing cars, of which there are four in the exhibition, and vans and trucks of which there are three. There are also two large pieces of trains, an airplane and several called "sculptures" and "signals," the latter largely colour shapes.

The various parts of some of the pieces can be moved and interchanged with the result that either the gallery staff or visitors can alter the show during its time.

Also to be seen in April is an exhibition of watercolours by Eric Freifeld, circulated by the University of New Brunswick Art Gallery.

Born in Saratov, Russia, Freifeld came to Canada in 1924 when he was five years old. He studied, painted and taught



Roller Bearing Mounting from da Vinci collection.

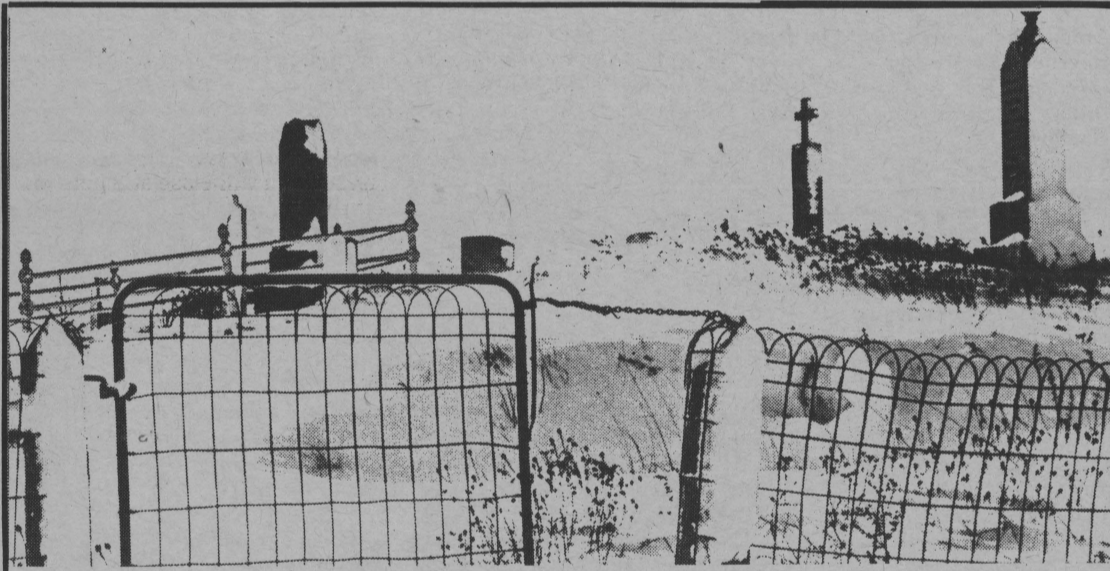
widely before and during the War, settling in 1946 in Toronto, where he still lives and paints.

Concurrent with these exhibitions is an unscheduled

teaching show of thirteen Group of Seven paintings on loan from the Art Gallery of Ontario.

Apart from the normally recognized members of the

group—Varley, Lismer, MacDonald, Jackson, Johnston, Carmichael and Harris—there are also two paintings by A.J. Casson and Edwin H. Holgate.



Lavers' photos featured

Photography by Graham Lavers of Halifax will be featured in the next exhibition in Dalhousie's Killam Memorial Library Special Collections Area, from April 3 to the end of the month.

Mr. Lavers' own personal observations of the world around him are reflected in the 40 black and white and 20 color photographs.

Scenic, surrealist and textural effects in wide variety have been created by mechanical manipulation. An example is the scorching of a main color transparency with a candle, overlaying it with another on a totally different

subject to create, in the finished work, a luminosity or a haloed effect.

Other unusual results have been achieved through chemical manipulation, such as the use of droplets of household bleach on color slides.

Mr. Lavers is a member of the Photography Department faculty of the Nova Scotia College of Art and Design.

The exhibition is open to the public between 9 a.m. and 10 p.m. Monday to Thursday, from 9 a.m. to 5 p.m. on Fridays and from 2-5 p.m. on Saturdays. Most of the photographs are for sale.



Gallery Weekend at six locations

Dalhousie University's Art Gallery will be one of six public galleries in Halifax and Dartmouth participating in Metro Gallery Weekend, an open house between the hours of 1 and 6 p.m. on Saturday and Sunday, April 15 and 16.

The Dalhousie gallery, located in the Arts Centre on University Avenue, Halifax, will exhibit models from the drawings of Leonardo da Vinci, watercolors by Eric Freifeld and Toys, Toys, Toys by Dennis LePage.

The Saint Mary's University Gallery will offer paintings by Siegfried Hasse. The Mount Saint Vincent gallery, in the new Seton Academic Centre, will present ceramics and posters by Pablo Picasso, and the Anna Leonowens Gallery and Mezzanine of the Nova

Scotia College of Art and Design is preparing an exhibition of the Image Bank Post Card Show as Alan Sondheim-META/On Kawara.

The Dartmouth Heritage Museum will have the Dartmouth Recreation Department's annual exhibition of Children's Art, and the Centennial Art Gallery, Citadel Hill, will present acrylics, inks and oils by Gary Morton.

The emphasis of the Metro Gallery Weekend is on "discovery". Visitors to the six galleries are invited to discover not only the galleries themselves and the exhibitions on display, but also the continuing program of exhibitions that each gallery will be presenting in the coming months.

A member of the professional staff of each gallery will be on hand to answer questions and talk about the exhibits.

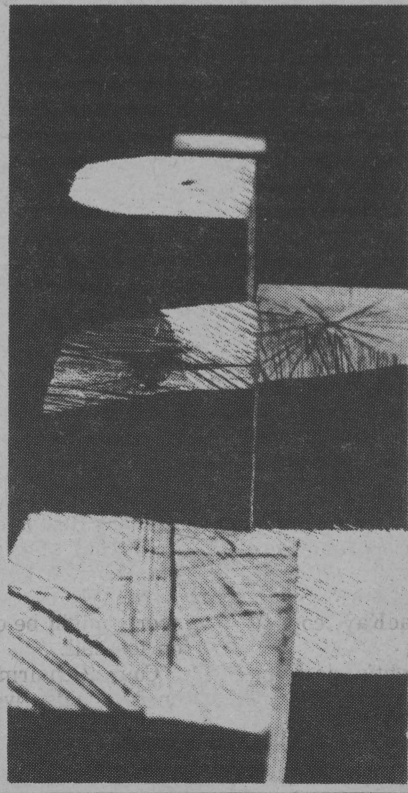
Dal Review winter issue available

The winter issue of the Dalhousie Review with its fine collection of articles, short stories, verse, poems and book reviews is now off the press.

Maintaining its usual high standard of authorship with works by scholars, critics and creative writers from Canada, the United States, Britain and elsewhere, the latest issue is no exception.

Among the contributors are: Katherine Rogers, John Lowenstein, J. L. Granatstein and Sidney J. Stephen.

Single copies or annual subscriptions for the quarterly can be obtained from the office of the Dalhousie Review, Killam Library, Dalhousie University.



The Bulletin Board

Thursday, March 30

THEATRE

8:30 p.m. — Sir James Dunn Theatre, Arts Centre — department of Theatre presents Racine's BRITANNICUS — Admission free, but tickets must be reserved through Central Box Office, 424-2298. (Also Sunday).

Monday, April 3

MEETINGS

12:30 p.m. — McInnes Room, SUB — sponsored by Student Union — DICK GREGORY, social satirist, who will speak on Social or Anti-Social Problems. Free to students, others by invitation only.

4 p.m. — Senate Chamber, A & A Bldg. — Meeting of SENATE COUNCIL.

7:30 p.m. — 1546 Barrington Street — No. 7 in 10-week course on THE HISTORY OF BLACK CANADIANS, sponsored by Catholic Social Services and directed by Pauline Overstreet. Weekly. Call 429-3595 for details.

CULTURAL

8:30 p.m. — Cohn Auditorium, Arts Centre — Music Student Graduation Recital TED LeVALLAINT, piano. Free.

LIBRARY

Main Lobby, Killam Library — display case exhibition of MICMAC ARTIFACTS. (Until April 10).

Special Collections Area, Killam Library — PHOTOGRAPHS BY GRAHAM LAVERS. (Story on page 7).

Tuesday, April 4

LECTURES, SEMINARS

2:30 p.m. — Killam Library Auditorium — Economics lecture — DR. GEORGE BORTS, professor of economics at Brown University, "Tariffs and Foreign Investment".

4 p.m. — Room 3655, Life Sciences Bldg. — Oceanographic Seminar — J.G. FIELD, postdoctoral fellow in oceanography.

MEETING

12 noon — Room 218, SUB — Open discussion on BAHAI WORLD FAITH. Weekly. Open.

Wednesday, April 5

LECTURES, SEMINARS

8 p.m. — Room 228, A & A — First in series of lectures on Building or Buying your own Home — sponsored by Dal. Institute of Public Affairs — D.A. HUGHES, CMHC, "Planning Your Housing". Details from 424-2528.

MEETING

8 p.m. — Grace Hospital — FAMILY NIGHT for expectant parents, sponsored by Dalhousie University and the Grace Maternity Hospital.

Thursday, April 6

LECTURES, SEMINARS

4:30 p.m. — 2922, Life Science Bldg. — Biology Journal Club Seminar — DR. K.G. DAVEY, Institute of Parasitology, MacDonald College, McGill University, "Hormones and Oogenesis in Rhodnius".

MEETINGS

8:15 p.m. — Senate Room, A & A Bldg. — General Meeting of DALHOUSIE FACULTY ASSOCIATION — DFA President's Annual Report; New Executive; Spring Meeting of CAUT; Discussion.

12:30 p.m. — Room 21: A & A Bldg. — Monthly Meeting of DALHOUSIE STAFF ASSOCIATION.

CULTURAL

7 and 9 p.m. — McInnes Room, SUB — University Film Society presentation LA GRANDE ILLUSION (France 1937), directed by Jean Renoir.

Friday, April 7

LECTURES, SEMINARS

10:30 a.m. — 306, Chemistry Bldg. — Analytical Chemistry Seminar on PESTICIDES AND OTHER ORGANIC POLLUTANTS (please confirm with Dr. Frei — 3334). Weekly.

11:30 a.m. — 215, Chemistry Bldg. — Chemistry Departmental Seminar — PROF. DAVID M. LEMAL, Dartmouth College, Hanover, New Hampshire, "In Quest of Tetrachlorane."

2:30 p.m. — Auditorium, Killam Library — Economics Lecture — DR. RICHARD MUSGRAVE, professor of economics at Harvard University, "The Rise of the Value Added Tax".

SOCIAL

9 p.m. — Green Room: SUB — JAZZ & SUDS, Dal. o.d. necessary. Weekly.

Sunday, April 9

CHAPLAINCY

7 p.m. — Council Chambers, SUB — FOLK MASS, dialogue homily, folk music, etc. Weekly.

Monday, April 10

LECTURES, SEMINARS

3:30 p.m. — 2922, Life Science Bldg. — Mathematics Colloquium — JAMES HUMPHREYS, Courant Institute, "Cartan Invariants for finite Chevalley Groups".

MEETINGS

4 p.m. — Senate Chamber: A * A Bldg. — SENATE MEETING.

LIBRARY

Until April 15 — Display Cases: Main Lobby, Killam Memorial Library — Travelling Book Display from ACUTE (Association of College and Universities Teachers of English); Top English Books of 1970.

OTHER

12:30 to 2:30 p.m. — Cinema Half, McInnes Room, SUB — Peter Jackson invites you to HAVE YOUR GOLF SWING ANALYSED and see yourself on TV. Also showing of the 1971 Peter Jackson Canadian Open at 11:30 a.m. Repeat on Tuesday and Wednesday, April 11-12.

Tuesday, April 11

LECTURES, SEMINARS

All Day — Auditorium, Killam Library — Dal Institute of Public Affairs Advanced Management Centre three-day Seminar on MANAGEMENT AND PRODUCTION — discussion leaders G. Thomas Calkin, Charles McManus. Details from 424-2528.

Morning — Conference Room, 15th floor, Tupper Bldg. — Psychiatry Lecture on Vector Therapy by DR. JOHN HOWELLS, visiting lecturer.

4 p.m. — 3655, Life Science Bldg. — Oceanographic Seminar — PROF. TED SMAYDA, University of Rhode Island, topic t.b.a.

8 p.m. — Auditorium "A", Tupper Bldg. — Hoffman-LaRoche Lecture in Psychiatry by visiting psychiatrist DR. JOHN HOWELLS, "Principles of Family Psychiatry".

Wednesday, April 12

LECTURES, SEMINARS

Morning — Conference Room, 15th floor, Tupper Bldg. — Psychiatry Lecture on Family Psychopathology and Schizophrenia, by DR. JOHN HOWELLS, visiting psychiatrist.

8 p.m. — 228, A & A Bldg. — No. 2 in Lecture Series on Building or Buying Your Home, presented by Dalhousie Institute of Public Affairs — JOHN M. WAY, architect, on "Services".

Thursday, April 13

CULTURAL

8:30 p.m. — Cohn Auditorium, Arts Centre — Halifax Community Concert subscription series — BEAUX ARTS TRIO. Central Box Office 424-2298.

Friday, April 14

CULTURAL

5 to 6:30 p.m. — Lower Foyer, Art Gallery, Arts Centre — Leonardo da Vinci Art Exhibition. Special opening for children of Dalhousie students, staff, faculty and alumni. Ice cream and soda pop will be served — children must be accompanied by parents.

8:30 p.m. — Cohn Auditorium, Arts Centre — Benefit Concert in aid of the Izaak Walton Killam Hospital for Children — MAUREEN FORRESTER, contralto — tickets \$5, \$10, and honorary patron \$25 — Central Box Office 424-2298.