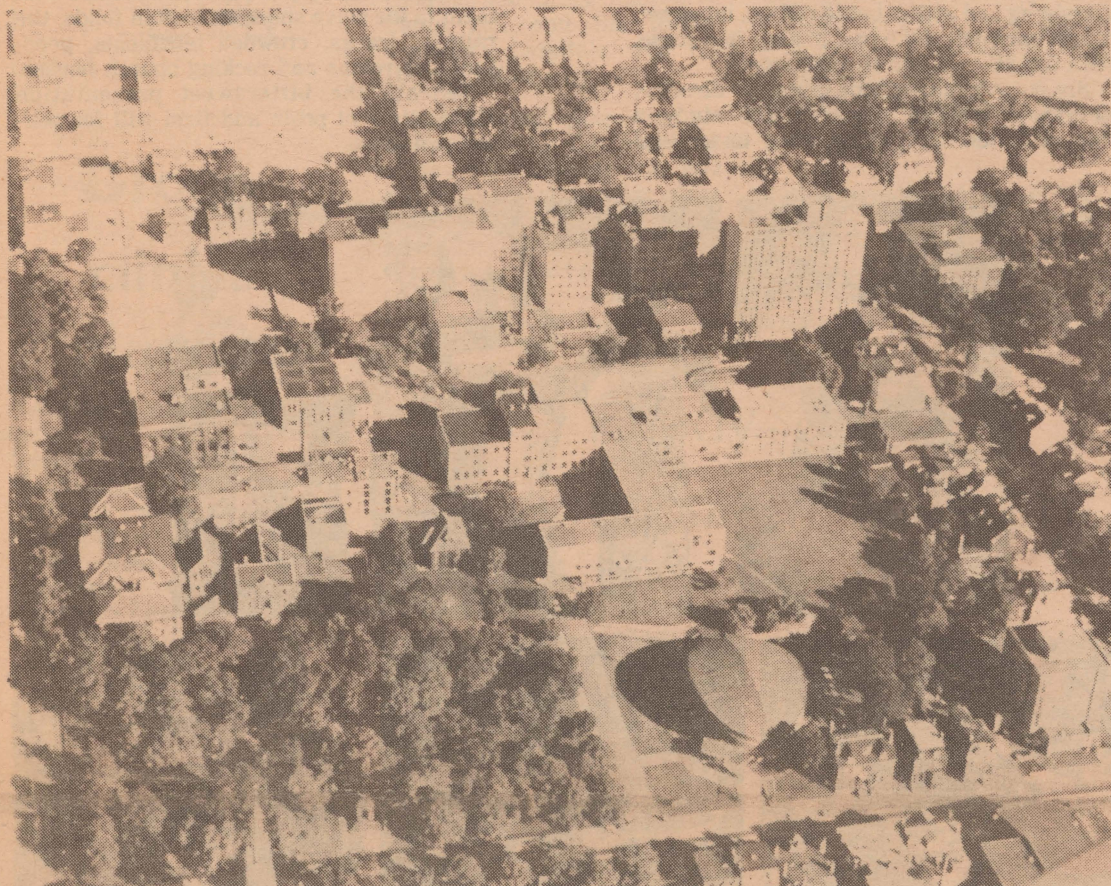




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# Tech wants to join Dal



Nova Scotia Tech campus with Barrington Street in the foreground and the Halifax Infirmary in the background.

The Faculty of Engineering at the Nova Scotia Technical College wants the college to become a fully integrated college of Dalhousie University by July next year.

This is one of the recommendations put forward in the report, Engineering Education in Nova Scotia, prepared by the Tech faculty of engineering for the University Grants Committee of the province.

Both Dalhousie and Tech have just begun the fourth year of a closer affiliation arrangement whereby, from 1969, Tech assumed the responsibility for curricula and academic programs at all levels in engineering and architecture, and Dalhousie continued to be responsible for engineering physics programs.

The five-year trial partnership agreement, ratified in August, 1969, also allows a freer and more co-ordinated exchange of professors, facilities and ideas, and seeks to centralize common services to both institutions.

The Tech faculty report completed, in September has been adopted by the Faculty of Engineering, the Senate of Tech and Tech's Board of Governors.

### It recommended:

- \* Nova Scotia Tech become the College of Engineering and Architecture of Dalhousie;
- \* Priority be placed on the resolution of the basic problem of providing a stable base for engineering education by the formation of an engineering college of Dalhousie and that all programs be continued in operation until this takes place;
- \* The Association of Atlantic Universities institute a study at an early date to establish criteria pertinent to this region for the establishment, viability, and termination of academic programs;
- \* A four-year program in engineering be instituted for qualified students; under other entrance qualifications or with an alternative exposure to the content of the early years, the program would require five years;
- \* The university request funds for the college on the basis of separately budgeted needs until such time as it becomes appropriate to integrate the budgeting operation within the university;
- \* The province of Nova Scotia make a special capital equipment grant for the college;
- \* The existing association between Tech and its associated universities be terminated. Students from other universities who satisfy the requirements will continue to be admitted with advanced standings;
- \* Every effort should be made to accommodate the professors of any university that decides to close its engineering program;
- \* An agreement be entered into by Dalhousie and Saint Mary's universities so that a single integrated engineering program is offered in Halifax;
- \* The incorporation of the college within Dalhousie take place on July 1, 1973.

The report's conclusions leading up to the recommendations were that:

While the system for engineering education which involved other universities with Tech was basically sound for many years and served the province and its people well, the original motivation has lost its force.

Tech now faced with difficulties in achieving its educational goals because of the division of its program into two parts, the competition for funds, and its inability to prevent the associated universities from adopting policies which weakened the alliance.

The conclusion section of the report added: "Engineering education must meet the challenges of developing new curriculum patterns to more adequately prepare the student for a professional role, of keeping up with the technical knowledge explosion, and of providing programs tuned to the demands of the economy.

"The educational atmosphere is one of constant change. To meet these challenges, in this atmosphere, requires closely co-ordinated, continuing and flexible planning."

## System crisis-bound

There was no question that the engineering education system in Nova Scotia was heading for a crisis, according to Dr. P. A. Lapp, a consultant retained to assist the Faculty of Engineering at the Nova Scotia Technical College in a study of the system during August last year and September this year.

Dr. Lapp, who was chairman of a study group which examined the 12 engineering schools in Ontario recently, said in his foreword to the Faculty of Engineering report that recommended Tech become a fully integrated graduate college of Dalhousie, that the time was rapidly approaching for decision and action.

"Over the past six months there has been a serious deterioration in the relations between NSTC and some of the

associated universities.

"It would be extremely unfortunate if the cleavages deepen further before decisions are reached, because unquestionably in the final analysis, it will be the students who suffer the most from such disharmony."

(The associated universities, which have undergraduate engineering programs for two years, are Acadia, Dalhousie, St. Francis Xavier, St. Mary's, Mount Allison, U.P.E.I. and, until 1969, Memorial).

In the foreword of the report, which contained the consultant's own independent views, Dr. Lapp said that declining enrolments in the associated universities forebode an accelerated decline at Tech in the present system. "Over the next five to 10 years,

engineering undergraduate enrolments will remain steady, or rise slowly at best, hovering in the neighborhood of 1,000 students.

"If enrolments were expanding sufficiently rapidly, there would be room for several engineering schools in Nova Scotia. The fact is, however, that with no more than about 1,000 students, only one school offering the number of programs that Tech does, could be viable."

Dr. Lapp said it appeared Tech's financial difficulties went back to the early 1960s. "By any standard...right across Canada, Tech has been woefully underfinanced...and even accounting for normal depression of salaries in the Atlantic region, the structure at Tech is

Continued on Page 2

## Outside reaction mixed

Reaction to the Nova Scotia Technical College Faculty of Engineering report from some of the Nova Scotia universities associated with Tech in engineering education was, as expected, mixed.

Acadia would regret full integration; St. Mary's wanted to know more about the proposal; and St. FX thought it favorable and inevitable. But all three wanted to keep in their

hands in engineering programs.

At Dalhousie, the report is being studied, or is to be studied, by the appropriate sections of the university, and a Dalhousie committee consisting of Academic Vice-President W. A. MacKay, Graduate Studies Dean K. T. Leffek, Arts and Science Dean G. R. MacLean, Administrative Vice-President D. H. McNeill, Dr. A. J. Tingley, Dr. R. H. March, Prof. L. G.

Vagianos, Dr. G. F. O. Langstroth, Dr. H. J. Uhlman, and Mr. G. R. George met last week, and earlier this week the matter was raised at the Dalhousie Senate meeting.

It is significant that discussions about Tech faculty's concern began 18 months ago, before formal study which led to the report began in June, 1971.

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## System crisis-bound

Continued from Page 1

considerably out of line."

The cleavage of curricular powers between Tech and the associated universities had resulted in uneven preparation of students entering their junior year at Tech, and it was a traumatic experience for some. "This situation could be rectified by establishing a standing curriculum committee whose authority is recognized at each of the associated universities — a solution that has little likelihood of success, judging by the present feelings among many in the system."

Dr. Lapp said he had concluded that strong, central curriculum control was essential; a longer-term financial planning horizon was critical to future development; any engineering school had to be viable financially and academically; and, finally, ideally the Tech system should consolidate into one large engineering school with access to a multi-faculty, co-educational campus.

"But the degree to which this ideal objective can be achieved will be a function of the political realities prevailing within the Atlantic provinces university system."

### DIFFICULT

The main body of the report, written by the Nova Scotia Technical College Faculty Council, said that in recent years, influences which could not be foreseen when the system was devised and which developed several decades later, had combined to make the effective operation of the Tech system increasingly difficult.

The mere fact of the evolution in engineering education from a science-followed-by-engineering concept to an integrated science-engineering-humanities concept should serve as a warning that, in academic terms, the present system geared to the earlier concept has become outdated.

With the development of public financing of higher education, and the change in the College Act in 1962 which placed financial responsibility on the Board of Governors, Tech was placed in competition for funds with its associated universities.

"Presidents of the associated universities continued to sit on the Board of Governors of the College to advise on financial and other matters, although the interest of the College could clearly be in conflict with the interest of their own universities."

### NOT CONSULTED

The Faculty Council said there had been a steady whittling away at the base of the Tech system, and this was generally done without mutual discussions. New and expanded engineering programs were established at the other universities, and Tech was not consulted.

"We do not argue that these programs should not have been, or should not be, started. We do note, however, that they have all affected this College adversely both in terms of enrolment and unity of effort."

"The other associated universities have rarely shown

concern on behalf of the college in this respect, even though their own students would clearly suffer from a weakening of the Tech system.

"We note further that Tech has no formal voice within these universities, as they have in our Senate and Board".

In the report's epilogue, the Faculty Council, in concluding that the Tech-associated universities system can no longer function effectively, recommends the disbandment of the system with regret, rather than rejoicing.

The proposals constituted the natural evolution of the Nova Scotia Technical College as a modern, professional school. "We believe in the future of this province and are convinced that a centre of excellence in engineering can be one of the cornerstones of our future society."

## OUTSIDE REACTION MIXED

Continued from Page 1

Representatives of other universities' engineering faculties were present at meetings, and Tech faculty visited other campuses and discussed engineering education with senior administrators and faculty.

The consultant, who came into the picture at the bequest of Tech Alumni Association in August, 1971, also visited university presidents, senior administrators and members of the engineering faculties at St. Mary's, Acadia, St. FX and Mount Allison. He also held many discussions with members of Tech's faculty and Senate, the Faculty Council, the Board of Governors, the Alumni Association, in addition to meeting the University Grants Committee and other senior educational authorities.

## Director of CLA to speak

Mr. Bernard J. McNamee, executive director of the Canadian Library Association, will be the guest of the Dalhousie School of Library Service Friday, Dec. 1.

Mr. McNamee will speak on The Future of the Canadian Library Association, in the regular lecture series arranged by the school. The lecture will be in the MacMechan Auditorium.

Mr. McNamee, a native of Kingston, Ont., graduated from the University of Ottawa, Sir George Williams University and McGill University. He was director of Library Service at Dawson College in Montreal before coming to Ottawa.

## Journey Into Blackness — a unique experience

Journey Into Blackness, a dramatic Black Musical Theatre presentation by Voices, Inc., of New York will be presented at 8:30 p.m. Sunday in the Rebecca Cohn Auditorium, sponsored by the Dalhousie Student Union.

The voices are a repertory company which presents 10 singer-actors who use song, drama, dance movements and connecting narrative to depict the sights, sounds and inner feelings of Black Americans — past and present.

The group has drawn rave reviews wherever it has performed.

The Voices are in the vanguard of new pioneers who are creating a new and vital theatre form: Black Theatre. This form, according to Thomas A. Johnson of The New York Times, "seeks not only to be entertaining and artful, but to reflect, interpret, teach, chronicle, take part in and, in a sense, lead the black cultural revolution".

Brooks Alexander, the musical director, developed through research and study a "vocal dimension" which when understood

and used makes it possible for an individual singer or group of singers to produce numerous vocal sounds and shades, thus freeing the human voice from the traditional limitations imposed by western speech patterns.

This "vocal dimension" concept is the key to the sound of Voices: a sound that roars or whispers on instant notice.

The artistic ingredients used by the Voices are Bantu chants, field hollers, work songs, street cries, blues, spirituals, gospel, rhythm 'n blues, jazz — all elements of the great body of music associated with Afro-Americans.

In the new production "Journey Into Blackness" the songs are roared, whispered, woven in counterpoint by the superbly trained Voices, who carry you out of the theatre with them to the slave ships, the cotton fields, the railroad tracks, crowded tenements, good-time bar rooms and rocking church houses.

Beneath the bittersweet presentation abides strident pride and firm will for self-determination.



Scenes from Journey Into Blackness

## Florence Wall named Mount board chairman

Miss Florence Wall, a teacher and educational administrator for many years in Halifax, has been elected Chairman of the Board of Governors of Mount Saint Vincent University.

She succeeds Mr. John H. Dickey, Q.C. who has been Chairman of the Board throughout the first six years of the university's life. Mr. Dickey will remain a member of the Board.

Miss Wall has been a member of the Mount Saint Vincent University Board since the university was founded in 1966 and she is currently the Mount's exchange member on the Board of Governors of Dalhousie.

Born in Antigonish, Miss Wall received her early education at the Convent of the Sacred Heart in Halifax and subsequently received a Bachelor of Arts degree at Mount Saint Vincent University. Following teacher training at Dalhousie, she received a Master of Arts

degree in elementary school administration and supervision from Columbia University in New York.

For 23 years, Miss Wall worked in Halifax schools as teacher, vice-principal and acting principal and became president of the Nova Scotia Teachers Union in 1962 for three years. Today, she is staff executive assistant of the NSTU.

Active in the Canadian Teachers-Federation, Miss Wall was a member of the board from 1962 to 1965 and has served on numerous Federation research and study committees.

She is past president of the Women's Division of the Dalhousie Alumni Association and a former member of the Board of Directors of St. Joseph's Orphanage in Halifax.

## Lecture on Yeats' poetry

A public lecture — "The Silent Artifice: Yeats' Unanswered Questions" will be delivered by Dr. Michael Estok of the Department of English Wednesday, Nov. 29, at 8:30 p.m.

Dr. Estok, post-doctoral Killam Fellow visiting from the

University of Waterloo, will deliver the lecture in Room 4-06 of the Dalhousie Arts Centre.

Dr. Estok will discuss the poetry of Yeats, taking as his starting point the questions with Yeats often concludes his poems — questions that are seldom answered.

## university news

University News is published fortnightly by Dalhousie University, Halifax, Nova Scotia; it is produced by the University's Information Office and printed by The Dartmouth Free Press Ltd.

Inquiries and contributions should be addressed to: The Editor, University News, Information Office, Dalhousie University. Deadline for material is the Friday preceding publication.

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



# Physicians back to school



## Group clinics planned

A series of small group clinics being held at the Victoria General Hospital, the Izaak Walton Killam Hospital for Children and the Grace Maternity Hospital as part of the 46th annual refresher course organized by Dalhousie University Faculty of Medicine, will cover a broad range of medical topics.

The refresher course, being held in conjunction with the 119th annual meeting of the Medical Society of Nova Scotia, will be held Nov. 20-23.

The small group clinics will be held at the three hospitals on the afternoons of Monday, Nov. 20 and Wednesday, Nov. 22, will deal with medicine generally, surgery, psychiatry, paediatrics, and obstetrics and gynaecology.

While discussion will be serious, some of the topic titles have popular appeal. For example: Is that chest pain significant?; The injured athletes — out of the game; Marital therapy; I'm getting deaf, doctor.

Nephrology, The Pill, Pharmacology, Hypertension, Diabetes, Shock.

They are some of the topics to be discussed and lectured on at the 46th annual Dalhousie University Faculty of Medicine refresher course being held Nov. 20-23. Doctors from all parts of the Atlantic provinces are expected to attend.

The course is being held in conjunction with the 119th annual meeting of the Medical Society of Nova Scotia, and in co-operation with the Victoria General, the Grace Maternity, Camp Hill and the Killam Children's hospitals, and the Halifax Infirmary.

Also taking place in co-operation with the refresher course committee is the 1972 combined annual meeting of the Nova Scotia and New Brunswick Societies of Ophthalmology and Otolaryngology, which takes place on Nov. 20 and 21.

Principal guest lecturers at the refresher course will be Dr. Samuel O. Thier, professor of medicine at the University of Pennsylvania Medical School and nephrology (kidney) ex-

per; this on the morning of Tuesday, Nov. 21. His topic will be the aggressive management of the patient with chronic renal disease.

In addition to the main sections of the scientific program, there will be socratic luncheons each day at the various hospitals and speakers will cover a broad range of topics.

Small group clinics will round off the scientific part of the program.

Social events include a reception and dinner preceding the annual meeting of the Dalhousie medical alumni, and a reception and dinner at the Class of 1957 reunion.

On the evening of Monday, Nov. 20, the Nova Scotia Chapter of the College of Family Physicians of Canada will hold a business meeting, and on the Wednesday (Nov. 22) evening the Nova Scotia section of General Practice will also meet.

46th annual  
refresher  
course

pert, and Dr. John Ruedy, associate professor of medicine at McGill University, the expert in clinical pharmacology.

Dr. Thier will also deliver the annual John Stewart Memorial

## Dr. Ruedy to lead pharmacology section

Dr. John Ruedy, of McGill University, will lead the section on clinical pharmacology at the 46th annual refresher course organized by the Faculty of Medicine at Dalhousie University.

The course is being held in conjunction with the 119th annual meeting of the Medical Society of Nova Scotia.

The clinical pharmacology session will begin at 9:30 on Wednesday, Nov. 22, in Lecture Theatre D of the Sir Charles Tupper Medical Building with a lecture by Dr. Ruedy on introductory pathophysiology. Following the lecture, there will be case presentations covering the use of steroids in practice, new antibiotics, and drug interaction, with Dalhousie medical school faculty taking part.

The following day, Dr. Ruedy will present a special lecture on

shock; this will be at 11 a.m. in Lecture Theatre D.

A native of Ottawa, Dr. Ruedy graduated with his MD from Queens University in 1956. His internship was at Montreal and Kingston General hospitals, and his residency training in internal medicine at the Montreal General. He obtained his certificate in Pathology at the University of Pennsylvania.

Dr. Ruedy has held teaching posts at the University of Manitoba and McGill; he is now associate professor of medicine at McGill.

He is a member of many associations, including the Royal College of Physicians and Surgeons of Canada, the Pharmacological Society of Canada, the Canadian Society for Clinical Investigation, and the American Federation for Clinical Research, and the New York Academy of Sciences.



Dr. John Ruedy

## Class of '57 involved in course

Part of the scientific program of the 46th annual refresher course for doctors being presented by the Faculty of Medicine at Dalhousie University next week has been arranged by medical alumni who graduated in 1957.

All of the afternoon program on Tuesday, Nov. 21, was organized by the Class of '57. First part of the program will be a panel discussion on paediatric obstructive airway disease; Dr. C. T. Gillespie of the University's Paediatrics Department, will lead the discussion. Other panellists are Drs. R. S. Murphy, of the Department of Otolaryngology, and J. M. McSween, of the Department of Medicine.

A second panel discussion will be led by Dr. McSween on the principles of clinic immunology; other panellists will be Dr. D. T. Janigan, head of the Pathology Department, and Dr. S. G. Lannon, of the Department of Urology.

Both panel discussions will take place in the auditorium at the Victoria General Hospital.

In the evening, the Dalhousie Medical Alumni Association will hold its annual meeting in the Sir Charles Tupper Medical Building; this will be preceded by a reception and buffet.



Dr. S. O. Thier

## Dr. Thier to give Stewart Lecture

Dr. Samuel O. Thier of the University of Pennsylvania medical school in Philadelphia and a nephrology (kidney study) expert, will deliver the annual John Stewart Memorial Lecture during the 46th annual refresher course for practising physicians which will be held in Halifax Nov. 20-23.

The course is organized by the Faculty of Medicine at Dalhousie University in conjunction with the 119th annual meeting of the Nova Scotia Medical Society.

The John Stewart lecture, sponsored annually by the Provincial Medical Board of Nova Scotia, enables the university to honor the memory of Dr. John Stewart, Nova Scotia's outstanding surgeon many years ago, by presenting a lecture by a notable figure in the world of medicine.

Dr. Stewart himself was president of the provincial medical board from 1906 to 1916, and was president of the Canadian Medical Association in 1905, and from 1919 to 1932 was Dalhousie's Dean of Medicine.

This year's memorial lecturer, Dr. Thier, was born in Brooklyn, New York. He obtained his undergraduate degree from Cornell University in 1956 and his MD from State University of New York College of Medicine.

After internship and residency at the Massachusetts General Hospital, during which time he was also a teaching fellow in medicine at Harvard medical school, he went into full-time teaching. He was an assistant professor of medicine at Harvard before joining the University of Pennsylvania medical school.

Dr. Thier is a member of many professional and scientific societies, including the American Federation for Clinical Research, the American Society of Nephrology, the Medical Advisory Board of the Massachusetts Kidney Foundation, the American Physiological Society, and the International Society of Nephrology.

Dr. Thier's topic will be the aggressive management of the patient with chronic renal disease. The lecture will begin at 11 a.m. on Tuesday, Nov. 21, in Lecture Theatre A of the Sir Charles Tupper Medical Building.

## Three seminars on program

Three comprehensive seminars have been planned as part of the 46th annual refresher course presented by the Dalhousie University Faculty of Medicine.

The course, for practising physicians in the Atlantic provinces, is being held in conjunction with the 119th annual meeting of the Medical Society of Nova Scotia.

The first comprehensive seminar, on the morning of Tuesday, Nov. 21, is organized by the medical school's Department of Obstetrics and Gynaecology; it will be held from 9:30 to 11 a.m. in Lecture Theatre D of the Sir Charles Tupper Medical Building.

Topic for discussion: The Pill - Which One?

Chairman will be Dr. Thomas Martin, of the obstetrics and gynaecology department, and the faculty member taking part will be Dr. S. C. MacLeod.

This seminar precedes the John Stewart Memorial Lec-

ture, which begins at 11 a.m. in Lecture Theatre A of the Tupper Building, with prominent nephrologist Dr. Samuel O. Thier delivering a lecture on the aggressive management of the patient with chronic renal disease.

The two other seminars take place on the morning of Thursday, Nov. 23. The first, in Lecture Theatre C, under the chairmanship of Dr. R. W. Gillis of the Family Medicine Centre, with Dr. R. D. Gregor of the Department of Medicine assisting, is on hypertension. The second, on diabetes, is under the chairmanship of Dr. Basil Grogono, of the Department of Surgery, and with Dr. A. Shlossberg of the Department of Medicine, assisting. The second seminar will be held in Lecture Theatre D of the Tupper Building.

A special lecture on shock will follow the Thursday morning seminars. Chairman at this will be Dr. R. D. Gregor and the guest teacher will be Dr. John Ruedy, of McGill University.



Audio-visual

# Biology goes

Biology 101, a course in the basic principles of biology for students who do not have senior matriculation in the subject, has moved from the traditional lecture-and-laboratory format to that of modern audio-visual techniques.

Faced with increasing numbers of students in the first-year class, the Department of Biology found its teaching resources overtaxed with the result that teaching the science to large groups was impersonal and unsatisfactory.

Last year, Professors L. E. Haley, M. S. Harvey and R. P. McBride began to study some of the teaching and learning problems in the Biology 101 course. A major problem the professors found was the diversity of the levels of achievement of students in biology before entering university; this was compounded when it was acknowledged that a single method of teaching does not fit in with the objectives of all the students.

And because 101 is designed to prepare students for further study in biology and at the same time provide a base for students in health science programs, it became increasingly apparent that the traditional format of a three-hour lecture and then a three-hour laboratory session had its limitations.

The result of the professorial trio's findings is the audio-tutorial approach.

An independent study lesson, a lecture and the tutorial are the components for the course. Offered in the Biology 101 Study Centre in the Biology Department's wing of the new Life Sciences Centre on the Studley Campus, the course is really a mini-course because of its introductory, and therefore, shorter, nature than those at a higher level that follow it.

The Study Centre has carrels equipped with individual headphones and tape recorders. Other software includes a carousel projector, side screen, and 8 mm loop projector for each group of 15 students.

The study lesson takes about three hours a week of un-scheduled time and is a combination of audio-taped instruction, study guides, assigned readings, experimental material and film instruction; in this way, the once-formal lecture has moved into the laboratory.

A student is given a list of detailed objectives indicating what is expected of him in each lesson. He has the choice of



Prof. L. E. Haley and students "leaf" through a plant.

## A/V can influence total learning process

The why, when and how of audio-visual instruction is the subject of a class offered to education students by Mrs. Margaret Meade.

In a two-hour a week session she develops the course content through a discussion of communication theory and a learning-by-doing workshop.

"Too many people look on audio-visual instruction materials as simply an aid to transferring facts...those that do," says Mrs. Meade, "have not really recognized the potential of the media."

By acquiring the skills and knowledge for designing materials, by evaluating the types of materials and understanding the bias of each medium, she feels that teaching professionals can make use of A/V to influence the total learning process.

She hopes that when the class terminates that her students

will be able to recognize what is involved in producing an audio-visual message:

"That they will be able to perform the fundamental skills involved in the operation of audio-visual equipment and production of instructional

**MRS. MARGARET MEADE**, is a native of Guysborough and has a B.Ed and M.A. in education from Dalhousie. At present she holds a joint appointment in the Department of Education and the Faculty of Medicine's division of continuing medical education.

She has developed the introductory course in audio-visual media with what is available in the education department.

She admits that she learns best in the visual medium and is trying to share her experience with people who are interested in the same thing.

materials: develop an awareness of research in this area and where to look for local audio-visual resources."

"If you want to use audio-visual instruction material simply as a vehicle to transfer a body of knowledge, you don't have to have any background in communication or learning theory.

"But, says Mrs. Meade, "if you want to develop skills, attitudes and behaviour patterns in learning through the use of educational media, you need an understanding of the scope and purpose of communications, some idea of interpersonal dynamics and learning theory.

There is a basic room for A/V equipment, operation and production in the Resource Centre of the Old Education Building, plus a graphics room and dark room. The equipment is limited but is readily available to education students and faculty.

A technician is on hand to give expert advice in the operation and use of the equipment and in the preparation of A/V materials.

The workshop sessions enable students to get to know what's involved in the use of A/V materials. The best way to do this, according to Mrs. Meade, is to encourage students to produce A/V materials on their own.

For example, by producing video tape, planning a tape/slide series, writing a script, copying pictures, recording narration, shooting 8mm film or making transparencies, students become familiar with the fundamental technical skills and appreciate what each can and cannot do.

"They become comfortable with the instructional material; they realize what it is like to



Prof. M. S. Harvey, left, and

learn by A/V and can carry this forward into their own teaching experiences."

As part of the course students will also get some insight into the kind of educational research that is now underway in the area of learning from audio-visual materials; they will receive some direction on where to go locally for audio-visual resources, and will be introduced to such areas of study as advertising, film making and screen education programs.

Describing some of the instructional technology in use today, Mrs. Meade listed the use of television (broadcast and closed circuit) for direct classroom learning, overhead projectors which enable teachers to face the class while instruction is taking place, audio and video tapes; teaching machines which are a form of programmed instruction; synchronized tape/slide programs and 8 mm single concept films; the multi media presentation using a number of



Mrs. Margaret Meade



al report

## es modern

media which he can match to his own best way of learning. He sees objects directly in front of him instead of a lecturer and a blackboard at a distance.

The taped commentary, prepared and edited by the professors, gives the student the facts and directs him through observations and manipulations he would find in the laboratory. Film loops are used for complex techniques, and augment the information he gets on his slides. In addition there is a demonstration area for display of live specimens and photographs.

In such a climate, the student can control his own learning pace, and can review or skim according to his individual needs.

Two demonstrators, Derek Sarty and Pamela Malcolm, are in charge of technical production, and graduate students are available at all times to answer questions and encourage discussion.

One of the special features of the course is that the student now has sufficient time to break away from the lesson and prepare a slide or work on a group activity.

By the time the student comes to the scheduled lecture period, he has completed the lesson assignment and is familiar with the subject to be dealt with by the professors. The teacher is free in the lecture time to relate, what the student has already learned, to every-day experiences.

A tutorial is held every two weeks with one staff member to eight students. This is a mixture of oral quizzing and discussion. The student is required to identify a specimen or explain a concept to the seven others. In this way he assumes the role of the teacher and is assigned a mark on the basis of his answer.

The tutorial serves three important functions. It paces the student through the course. Students learn to speak out in a small group setting — and this is new in introductory science courses at Dalhousie. It also provides the opportunity to clear up any problems the student still may have.

The course content this year is the same as last with the emphasis now on increasing academic quality in large class teaching. By comparison of student performances in the last two years, the staff will be able to assess the effectiveness of the technique.



Prof. R. P. McBride checks out a slide carousel.

## Audio-visual centre gaining popularity

The technical know-how that set Biology 101 and the Double-O Zero history program on its first-year path was provided by the university's general Audio-Visual Centre, which is housed in a section of the new Life Sciences Centre on the Studley campus. (The Faculty of Medicine also has an audio-visual centre in the Sir Charles Tupper Medical Building; this operates almost exclusively in assisting medical teaching, although both units co-operate and are part of the umbrella Communications Services organization at Dalhousie).

The stated purpose of the general audio-visual unit, which is now being used more and more as departments and staff become familiar with it and with what it can do, is to provide audio-visual materials and services to support the educational process.

The relatively recent application of its facilities and equipment and techniques to the Double-O Zero history course and to the Biology 101 course indicates fairly clearly that the centre can be more than simply a service unit providing hardware and other equipment for teachers.

In addition to the Departments of History and Biology having gone ahead with the centre in two programs, the university's Computer Centre and the Institute of Public Affairs among others have expressed an interest in the audio-visual concept as an instructional form.

Acting Director Finn Damtoft says he hopes the centre will get more involved in the classroom employment of audio-visual services, and particularly with the teacher training program of the university's Department of Education.



FINN DAMTOFT, acting director of Audio-Visual Centre.

The centre is equipped to do many things, and its staff know how to use the software and how to put across a message.

Mr. Damtoft hopes that more departments will structure their teaching in such a way as to incorporate, for example, cassette-type programs, a form of individualized instruction now used in the history course, which the centre can put together from scratch.

The centre would also like to offer a non-credit audio-visual course in film-making and photography, and one in microscopy.

Cost and time factors are inevitably involved, and therefore important, in any transition to audio-visual instruction but, says Mr. Damtoft, the results in learning benefits can be powerful.

His staff includes three TV and film production people, three in photography, an equipment technician and a

secretary.

The photographic unit produces still pictures with quality and accuracy; the TV unit can facilitate a variety of instructional situations and can produce videotapes on location. All tapes used in teaching, in lab work, research and microscopy, can be recorded. The centre also maintains a file of available audio-visual material from outside sources that can be useful in determining what assistance can be given to university users.

Rental equipment on hand consists of overhead and traditional 35 mm slide projectors, 16 mm film projectors, viewers, and screens.

The centre is now in the midst of a comprehensive university-wide survey of all related equipment in the possession of departments, the objective being to establish a centralized audio-visual equipment centre.



a student at a typical carrel.

audio-visual material simultaneously or sequentially, and the use of kits or packages of materials organized around a single topic.

On the immediate horizon in terms of educational media, Mrs. Meade sees the greater use of programmed learning and self-instructional materials, tape/slide programs, video tapes, audio visual carrels as possible prospects.

Looking deeper into her

crystal ball she can foresee the use of computerized teaching where a student will be able to ask any question and get an answer, the movement of teachers to locations where the resources are such that they will, in effect, become directors of resources rather than people who must transfer a body of knowledge, involvement in satellite broadcasting, and a network of communication channels via Cable TV with hook ups from universities, to schools, to computer centres.



## Schaller leads police

Doug Schaller is not new to the Dalhousie campus. He's a former student and former night manager of the Student

Union Building.

Also a former member of the RCMP and the Halifax City Police, he has been able to

combine all his experiences in his new position — director of campus security.

Schaller's main responsibility is directing the campus student police. From his office in the Central Services Building he conducts his business with the authority of a well trained policeman coupled with a comprehension of the university community and campus life.

Schaller is responsible to a Board of Management for the 90 members of the campus police force and its three full time and one part time supervisor.

In addition to the students, the university employs private security agents such as Pinkerton's and the Canadian Corps of Commissionaires. To this end, Schaller is in close liaison with Prof. A. F. Chisholm, Director of Physical Plant, who is responsible for the outside security agencies on campus.

The new director feels that with proper supervision, the force could operate, within the university environment, with untrained personnel.

But he has gone a step further. One of his first undertakings was the establishment of a training program for all campus police members. Included in the program are courses in crowd control, self defence, first aid and sensitivity.

Dr. H. J. Uhlman, chairman of the Board of Management, calls the training program "a significant step".

Schaller says that co-operation from the student body has been fairly good. "I think they view us as a buffer between them and the city police."

But he would like to see a greater interest by students, as a whole, in "their police".

"We want students to make us more aware of the problems they see — once we get a complaint, we check it out immediately", he explained.

He says that relations with university faculty and administration, occasionally strained in the past, have been alleviated somewhat. He credits this to the more experienced supervisors on the staff.

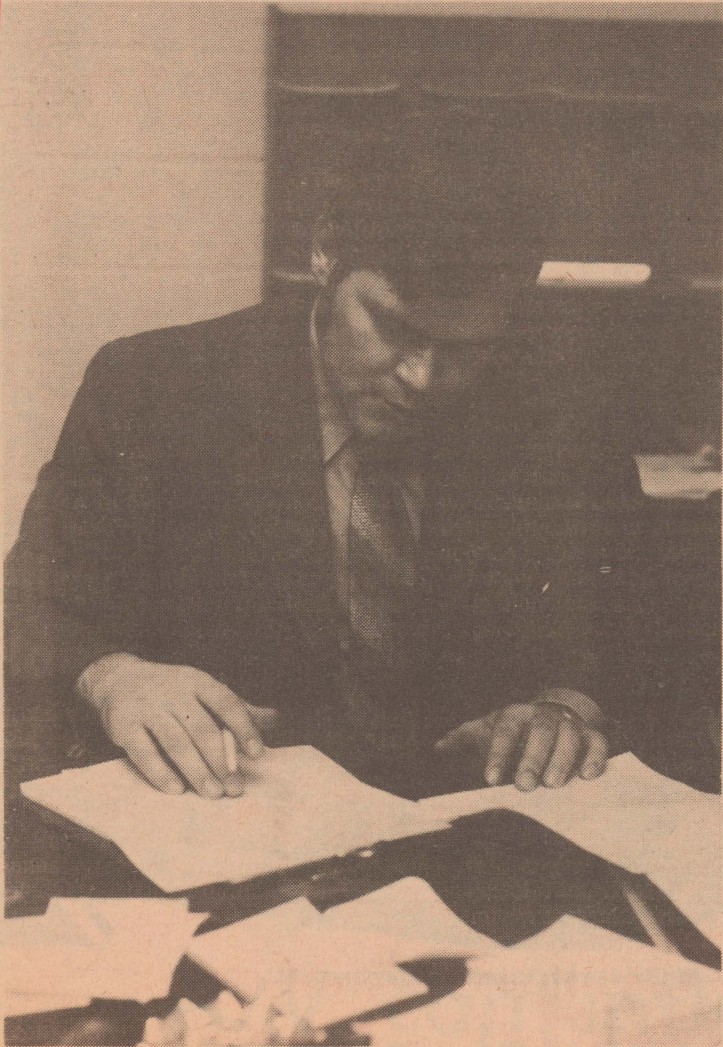
The three full time supervisors — Dave Ness, Terry Linden and Ed Miller — are part-time students. The part-time supervisor, Ben Blufarb, is a full time student. Ness has had experience as a military policeman and a campus policeman. The others are all former members of the campus police.

Schaller is pleased with the efforts of the student force and has a firm set of standards for force members to follow. Violation of these standards could result in suspension.

If a suspension takes place the case is presented to the three full time supervisors who then submit their recommendation to the director. The verdict can be appealed to the director and further appealed to the Board of Management.

As well as providing security at athletic and social events and specific assignments, the Campus Police provide regular service at a number of campus buildings, their main areas of concentration being the Life Sciences Building, the Arts Centre, the Student Union Building and Fenwick Place.

And, as their scope broadens, it appears that campus force will be even busier in the days ahead.



Doug Schaller

## Report produced by senate committee

The new look in campus security is the result of a report by the ad hoc committee of the University Senate on the role, responsibility and control of campus police.

In advocating a new administrative framework for security on campus, the committee recommended the establishment of a board of management as the supervisory body for campus police.

The resulting Board of Management is chaired by Dr. H. J. Uhlman, Dean of Student Services. Other members are Prof. W. H. Charles, chairman of the ad hoc committee which compiled the report, and Brian Smith, president of the Student Union. Prof. E. B. Mercer is secretary of the board.

The report was approved by Senate Council in August.

The functions of the campus police force as recommended in the report and laid down by the Board of Management are:

(1) The primary function of the student security forces should be that of service to the university community. As such it should concern itself with providing assistance to members of the university, guests and visitors and with the protection of their persons and property as well as with the protection of university buildings and property. The force should also assist with crowd control at events held on campus involving athletic and social events.

(2) The force should act primarily as a deterrent and should not attempt to actively

enforce the detailed provisions of the external law or those of the discipline code or university regulations unless the violator is caught in the act and the university interests are actively affected.

(3) Under no circumstances should members of the force engage in undercover activities and only in situations where they apprehend a person in the act of breaching the non-academic provisions of the discipline code or university regulations or the law of the land should the student force member intervene physically.

In the report the committee concluded that, for the present, students should be used as one element, and an important one, of the overall security force at Dalhousie.

"Past experience has shown that, generally speaking, student security personnel function and relate much more easily with other students and are at least as effective from a security point of view as the professional forces," the report stated.

The report further envisaged that "given the proper administrative organization and support, including adequate training, the committee sees no reason why student security forces might not eventually take over all the internal security functions of the university."

Other members of the senate committee were Dr. A. J. Coles, Peter Harvison, Prof. Mercer, Brian Smith and Dr. Uhlman.

## Workshop on French-Canadian literature

The provision of French-Canadian literature in Atlantic Provinces schools and libraries will be the theme of a workshop at Dalhousie University's Killam Library Nov. 24-26.

The workshop is being organized by the Dalhousie School of Library Service, assisted by the Department of the Secretary of State. The School has received a grant of \$5,000 for the workshop as part of the overall allotment for Canada's observance of International Book Year.

Purpose of the workshop is to make better known what is

being published in French in Canada. The program will include talks, a film, and discussions with the emphasis of the practical nature of the topic. The formal papers will be presented in English. Translation facilities will be available during discussion periods.

About 70 librarians and teachers from the Atlantic Provinces are expected to attend the workshop. Proceedings of the workshop will be published and made available to schools and libraries in the Atlantic Provinces.

## Law professor makes study of lien regulation

Nova Scotia Attorney General Leonard Pace has announced that the Nova Scotia Law Reform Advisory Commission under the chairmanship of His Lordship, Mr. Justice A. Gordon Cooper, has undertaken a study of Mechanics' Lien Legislation in Nova Scotia.

The Commission has engaged the services of Peter E. Darby, Associate Professor of Law, Dalhousie Law School, to prepare a report and recommendations on this matter.

Prof. Darby is now actively engaged in studying the topic and expects to have a final report for submission to the Commission on Aug. 31, 1973. He will submit an interim report Feb. 28, 1973.

Prof. Darby requests any

member of the Bar who wishes to make representations on this matter to communicate directly with him.

Prof. Darby is a native of Prince Edward Island and is a graduate of Mount Allison University and Dalhousie Law School. He is now engaged in completing his thesis for a Masters' Degree in law from the University of Illinois.

Prof. Darby has been a member of the Alberta and the New Brunswick Bars. He joined Dalhousie Law School in the fall of 1968 after eight years of practice in Saint John, N.B., with the firm of Willet and Darby.

Communications may be directed to Prof. Darby at the Law School.

## Science writers holding seminar

The second annual seminar on science writing by the Canadian Science Writers' Association opened Thursday at Dalhousie. Sessions are scheduled for today at the Bedford Institute of Oceanography and tomorrow at the Nova Scotia Research Foundation.

Dalhousie faculty members who presented papers Thursday were: Dr. Matthew Spence, associate professor of pediatrics and assistant professor of biochemistry; Dr.

H. L. Vallet, assistant professor of pediatrics, and Dr. Frank Pyke, Dr. John Thomson and Dr. Bent Rushall, assistant professors of physical education.

Among those presenting papers today are Dr. Kenneth Mann, chairman of the biology department. Seminar concludes tomorrow night with a dinner at the Hotel Nova Scotian with Premier Gerald Regan as guest speaker.

## Students to present Medieval evening

Dalhousie's Department of Theatre presents *A Lot of Bull*, an evening that traces the development of ritual, song, dance, play, and bawdy in Medieval Times, and the attempts of the Christian Church to cope with it.

Performed by second year theatre students, the production has grown from a basis of class study, and will be flanked by an exhibition of material on Medieval Society prepared by the students as their term

projects.

Both design and production take the Medieval stage as their premise, but adapt costume, set, acting and text to illuminate modern theatrical enterprise. A Medieval evening, in a modern spirit.

The performance takes place in the Dunn Theatre, Dalhousie Arts Centre, opening on Thursday, Nov. 23, and running through Sunday, Nov. 26, at 8:30 p.m. Admission is free.





The Dalhousie girl's field hockey team has captured the Atlantic Intercollegiate championship ending a five-year reign by the University of New Brunswick. The Tigerettes defeated Mount Allison 1-0 to capture the title. Members of the winning team are (back row): Ginny Hingley, Patricia Pertus, Carol Sparks, Judi Rice (captain), Rose Johnston, Louise MacDonald, Susan Brenton (manager). Front row: Judy Jewers, Chris Almon, Charlotte Allen, Sharon Keough, Joan Selig.

### Composition Workshop planned

Two professors from the Dalhousie Department of Music, will offer a Workshop in Composition to teachers and students from the province on Friday and Saturday, Nov. 24 and 25, at the Dalhousie Arts Centre.

The workshop, one of the first of its kind in the area, is aimed primarily at private and public school music teachers working with junior and senior high school students.

On Friday, Dr. Dennis M. Farrell will hold sessions on traditional techniques in Western Classical Music, followed by an afternoon demonstration-recital of Dalhousie student compositions. A Friday concert is also planned at 8:30 p.m. in the Rebecca Cohn Auditorium, consisting of works by composers and performers teaching in the area. The concert is open to the public without charge.

During the Saturday meetings, Professor J. Stephen Tittle, currently a candidate for a Doctorate of Musical Arts in Composition, will expand the usage of traditional techniques and their synthesis with other Twentieth-Century compositional devices. Group improvisation and discussions will also be featured.

Professors Farrell and Tittle currently teach Music Theory courses at Dalhousie in which analysis, improvisation, and composition figure prominently in the instruction.

### Libraries told they must change image

Libraries in the '70s are finding themselves without an audience and without financial support because of two factors — they are moving further away from the people whom they were established to serve and the people they are serving have changed.

John N. Berry III, editor of the Library Journal, speaking to staff and students in the School of Library Service said

that libraries today are becoming obsessed with the internal and mechanical problems of service and with self-preservation when they should be concentrating on service itself.

If libraries are to survive with constituency support, they will have to be willing, he said, to provide constituency information for the people in the libraries serve.

Some libraries have already made a move in this direction. For example, the public library in Owen Sound has become a contact centre providing information on specific human needs with a referral arrangement to appropriate agencies. In effect this library sees its people as clients with informational needs.

In an academic library, Berry feels that it should develop all levels of resources and not simply limit itself to resources for a small number of scholars. It should look for more relevant information that has a total look in regard to the full educational process. There should be an attempt by the librarians to concentrate on the non-curricular and informational needs of students.

As editor of the Literary Journal, Mr. Berry said that the policy of the publication is one of support for greater library social responsibility.

### Faculty Association plans dance

The Dalhousie Faculty Association will hold its annual Christmas dance for faculty and friends in the Faculty Club Dec. 8 at 8:30 p.m.

This year's dance, "Bah! Humbug!", will include a hot and cold buffet, and a bottle of wine for four in the price of admission (\$5. per person).

Tickets may be obtained from departmental representatives or by sending a cheque to the Social Events Committee: Prof. Frank Kretschmer (French) or Prof. Irena Pittas (Spanish). Ticket sales must close Dec. 4.

## Munro captures national title

Richard Munro, fourth year physical education student at Dalhousie, continues to add to his impressive list of cross-country victories.

Having already established himself as one of the top performers in the country, Munro last weekend captured first place in the Canadian Intercollegiate Athletic Union cross-country championships in Kingston, Ont.

Last summer he won the Canadian open senior men's championship in Halifax.

In the Kingston race he finished the five mile course in 25 minutes, 42.2 seconds to beat runner-up Larry Switzer of the University of Manitoba by 7.8 seconds.

## Sports schedule

- Saturday, Nov. 18 — Basketball, Dal at St. F. X.
- Sunday, Nov. 19 — Hockey, Dal at UPEI.
- Wednesday, Nov. 22 — Hockey, Dal at Saint Mary's (Forum).
- Friday, Nov. 24 — Basketball, UPEI at Dal.
- Saturday, Nov. 25 — Hockey, Dal at Acadia.
- Wrestling, RMC, Moncton at Dalhousie.
- Basketball, Mount Allison at Dal.
- Tuesday, Nov. 28 — Hockey, Dal at St. F. X.
- Thursday, Nov. 30 — Basketball, Acadia at Dal.
- Saturday, Dec. 2 — Hockey, Memorial at Dal.
- Basketball, Dal at UNB.
- Sunday, Dec. 3 — Hockey, Memorial at Dal.



# bulletin board

## Friday, November 17

10:15 a.m. — School of Library Service lecture: "An Author looks at the Canadian Book Scene" with guest author Miss Kay Hill. MacMechan Auditorium, Killam Library.

4 p.m. — Friday-at-4 lecture series: Theatre "A" Tupper Building. "Old Bones" with Dr. John Chalmers, from Princess Margaret Rose Hospital in Edinburgh, Scotland.

9 p.m. — Jazz and Suds. Green Room, SUB. Admission \$1.50 with ID.

Dalhousie University Art Gallery — Twenty-five photographs by Owen Fitzgerald.

Mount Saint Vincent University Art Gallery — Contemporary Balinese Paintings.

## Saturday, November 18

1 p.m. — Dalhousie Art Gallery, Arts Centre. Graphic Art Show and sale.

8 p.m. — Basketball. DAL at ST. F. X.

9 p.m. — Pub Stop. Cafeteria, SUB, Admission \$1.

## Sunday, November 19

2 p.m. — Hockey — DAL at UPEI.

3 p.m. — Sunday Concert Series — Karr-Lewis Duo — String Bass and Harpsichord. Rebecca Cohn Auditorium, Arts Centre, Admission free.

7 p.m. — Folk Mass. Council Chambers, SUB.

8:30 p.m. — "Journey Into Blackness", a Black Musical Theatre production sponsored by the Dalhousie Student Union. Rebecca Cohn Auditorium, Arts Centre. Tickets: \$3.50 and \$4.50; Students: \$2.50 and \$3.50.

## Monday, November 20

8:30 a.m. — 46th Dalhousie Refresher Course. Registration and Annual Meeting of the Medical Society of N.S., Tupper Building.

9:35 a.m. — Refresher Course morning program — "Nephrology." Theatre "A", Tupper Building.

2 p.m. — Refresher Course afternoon program — "Small Group Clinics."

3:30 p.m. — Mathematics seminar. Room 2922 Life Sciences Centre. Topic: "Structure and Homomorphisms of Minimal Sets" with Prof. Joseph Auslander, University of Maryland.

8:30 p.m. — Atlantic Symphony Orchestra Concert — Barry Tuckwell, French Horn, Rebecca Cohn Auditorium, Arts Centre. Tickets: \$7.70, \$5.50 and \$4.40; Students: \$5.95, \$3.95 and \$2.95, or by subscription. Box Office 424-2298.

## Tuesday, November 21

All day: AMC seminar on "Developing the Marketing Plan." MacMechan Auditorium, Killam Library. Enquiries: 424-2526.

8:30 a.m. — Refresher Course registration. Lobby, Tupper Building.

9:30 a.m. — Refresher Course morning program — "Comprehensive Seminar." Lecture Theatre "D", Tupper Building.

11 a.m. — Refresher Course. The John Stewart Memorial Lecture by Dr. S. O. Thier of Philadelphia. Lecture Theatre "A", Tupper Building.

12:15 p.m. — Lunch Hour Films on Art: — Civilization #5, "The Hero as Artist." Room 4-06, Arts Centre. Admission free.

2 p.m. — Refresher Course afternoon program arranged by the Class of '57. Auditorium of the V.G.H.

4:30 p.m. — Weekday Mass. 6124 South Street.

8 p.m. — French Club Film series: "Touchez Pas Au Grisbi." MacMechan Auditorium, Killam Library. Admission free.

8 p.m. — I.P.A. lecture-discussion series on: "The Citizen. Law and Society." (part of a ten week series). Room 234, Art and Administration Building.

8:30 p.m. — Atlantic Symphony Orchestra Concert with Barry Tuckwell, French Horn. Rebecca Cohn Auditorium, Arts Centre. Tickets: \$7.50, \$5.50 and \$4.40; Students: \$5.95, \$3.95 and \$2.95. Box Office 424-2298.

## Wednesday, November 22

8:30 a.m. — Registration for Refresher Course. 15th floor, Tupper Building.

9 a.m. — A.M.C. seminar on "Developing the Marketing Plan." MacMechan Auditorium, Killam Library.

9:30 a.m. — Refresher Course morning program: "Clinical Pharmacology", Lecture Theatre "D", Tupper Building.

12:30 p.m. — Weekday Mass. 6124 South Street.

2 p.m. — Refresher Course afternoon program: "Small Group Clinics."

4 p.m. — Physics Seminar, "Elementary Particle Models and the Neutral Aon Lifetime" with Dr. J. G. Cordes. Room 101, Dunn Building.

7 p.m. — Refresher Course, N.S. section of General Practice Business Meeting. 15th floor, Tupper Building.

7:30 p.m. — Refresher Course Class of '57 Reunion. Evening — Young Alumni Club, "Heavenly Gaze." St. Mary's Observatory.

7:30 p.m. — German film to be shown by the German Department, "Berlin Alexanderplatz." Based on the novel by Alfred Döblin and features Heinrich George and Bernhard Minetti. MacMechan Auditorium, Killam Library.

7:30 p.m. — Dalhousie Concert Band practice. Room 121, Arts Centre.

8:30 a.m. — Registration for the Refresher Course. 15th floor, Tupper Building.

9:30 a.m. — Refresher Course morning program: Comprehensive Seminars, "Hypertension." Lecture Theatre "C", and "Diabetes" in Lecture Theatre "D", Tupper Building.

11 a.m. — Refresher Course, Special lecture on "Shock." Lecture Theatre "D", Tupper Building.

12:30 p.m. — Physical Education Forum. Topic: "Sam Langford — Nova Scotia Tarbaby," with Dr. A. J. Young. Room 217, Arts and Administration Building.

## Thursday, November 23

12:30 p.m. — Killam Lunch Hour Films series: "Global Village" is the name of today's film which is being shown in the MacMechan Auditorium, Killam Library. Admission free.

4 p.m. — Inorganic Chemistry Seminar: "The polyelectrolyte layered cations in solid rare-earth compounds" with speaker P. E. Caro. Room 306, Chemistry Building.

5:30 p.m. — Weekday Mass. 6124 South Street.

8 p.m. — Dalhousie Chamber Orchestra practice. Room 121, Arts Centre.

8:30 p.m. — Dalhousie Film Society: This week's film is "Love Affair or The Case of the Missing Switchboard Operator." Rebecca Cohn Auditorium, Arts Centre. Members only.

8:30 p.m. — "An Evening of Dance and Theatre" by the Actor's Lab. Mount Saint Vincent University Art Gallery. Admission: \$2.00 and students \$1.00 with ID.

8:30 p.m. — Public Production by the Theatre Department: a Medieval Evening — "A Lot of Bull." Dunn Theatre, Arts Centre. Admission free. Reserve tickets at the Box Office, 424-2298.

## Friday, November 24

4 p.m. — Friday-at-4 lecture series; "Health Care Issues of the Seventies" with Dr. C. L. Gosse. Theatre "A", Tupper Building.

7 p.m. — Workshop on French-Canadian Literature: Its Provisions in Schools and Libraries in the Atlantic Provinces. Registration, MacMechan Auditorium, Killam Library.

8 p.m. — Workshop on French-Canadian Literature program begins with speaker Mr. Paul Gaudet. MacMechan Auditorium, Killam Library.

8:30 p.m. — Public Production of the Medieval Evening, "A Lot of Bull." Dunn Theatre, Arts Centre. Admission free. Reserve tickets at the Box Office — 424-2298.

9 p.m. — Jazz and Suds. Green Room, SUB. \$1.50 with ID.

## Saturday, November 25

All day: Workshop on French-Canadian Literature, MacMechan Auditorium, Killam Library.

8:30 p.m. — Public production of the Medieval Evening, "A Lot of Bull." Dunn Theatre, Arts Centre. Admission free. Reserve tickets at the Box Office, 424-2298.

9 p.m. — Pub Stop. Cafeteria, SUB. Admission \$1.00.

## Sunday, November 26

All morning — Workshop on French-Canadian Literature. Killam Library.

3 p.m. — C.B.C. Festival concerts Symphony with conductor Eric Wild. Rebecca Cohn Auditorium, Arts Centre. Admission free.

7 p.m. — Folk Mass. Council Chambers, SUB.

8:30 p.m. — Theatre Department production of "A Lot of Bull", Dunn Theatre, Arts Centre.

## Monday, November 27

4 p.m. — Physics seminar. "Recent Developments in High Energy Physics — An Introductory Survey" by Dr. H.C.S. Lam — Room 101, Dunn Building.

8:15 p.m. — Dalhousie-King's Reading Club meeting at the home of Miss M.D.E. Fraser. The program, arranged by Mrs. F. R. Manuel and Mrs. B. H. Rasmussen, is "Domestic Life in Tanzania and Rhodesia."

## Tuesday, November 28

12:15 p.m. — Lunch Hour Films on Art, "Varley," "The Jolifou Inn" and "Lismer." Room 4-06, Arts Centre. Admission free.

4:30 p.m. — Weekday Mass. 6124 South Street.

8 p.m. — IPA lecture-discussion series on, "The Citizen, Law and Society." (part of a ten week series). Room 234 Arts and Administration Building.

8:30 p.m. — Community Concert with Andre Jollett Brun. Rebecca Cohn Auditorium, Arts Centre. Admission by subscription.

Dalhousie University Art Gallery — National Art Cavalcade (until Dec. 3).

## Wednesday, November 29

12:30 p.m. — Weekday Mass. 6124 South Street.

4 p.m. — Room 101 Dunn Building. "Very Low Temperature: Why Bother?" by Dr. R. March.

7:30 p.m. — Dalhousie Concert Band practice. Room 121, Arts Centre.

8 p.m. — Mount Saint Vincent University Film Society — "Cul-de-Sac" directed by Roman Polanski. Seton Academic Centre, Auditorium "B". Admission free.

8:30 p.m. — Public lecture by the English Department, "Silent Artifice: Yeats' Unanswered Questions" by Dr. Michael Estok. Room 4-06, Arts Centre.

## Thursday, November 30

12:30 p.m. — Killam Library Lunch Hour Film: "People By The Billions." MacMechan Auditorium, Killam Library. Admission free.

12:30 p.m. — Physical Education Forum, Mr. K. Smith and Mr. D. Gould on "Psychological Consultation Procedures for Sports." Room 217, Arts and Administration Building.

4 p.m. — Inorganic Chemistry Seminar, with speaker P. E. Caro. "Non-stoichiometry in rare-earth compounds." Room 306, Chemistry Building.

8 p.m. — Alliance française lecture with films, "La Rhodesie" by B. H. Rasmussen. (presented in French). MacMechan Auditorium, Killam Library.

## Friday, December 1

10:15 a.m. — School of Library Service lecture with guest speaker Mr. Bernard J. McNamee, Executive Director, Canadian Library Association. "The Future of the Canadian Library Association." MacMechan Auditorium, Killam Library.

4 p.m. — Friday-at-4 lecture series; "Scientific Basis of Medicine" with Dr. Clark Fraser, Department of Medical Genetics, Montreal Children's Hospital.

9 p.m. — Jazz and Suds. Green Room, SUB. \$1.50 with ID.

Mount Saint Vincent University Art Gallery: Gift to the Maritimes by Douglas Duncan.

## Saturday, December 2

9 p.m. — Pub Stop. Cafeteria, SUB. Admission \$1.00.

## Sunday, December 3

3 p.m. — Sunday Concert, The Deller Consort. Rebecca Cohn Auditorium, Arts Centre. Admission free.

7 p.m. — Folk Mass. Council Chambers, SUB.

## Monday, December 4

8:30 p.m. — Atlantic Symphony Orchestra Concert Series featuring Pierre Fournier, Cello. Rebecca Cohn Auditorium, Arts Centre. Tickets: \$7.70, \$5.50 and \$4.40; Students: \$5.95, \$3.95 and \$2.95, or by subscription.