# University News

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**Dalhousie University** 

April 28, 1972

Drug prices:

# Physicians, pharmacists should get together



By JOAN TEED

Dr. John Aldous

Do high price and quality necessarily go together in the sale of drugs?

Not necessarily, says Dr. John Aldous, head of the Department of Pharmacology at Dalhousie.

The main controversy over drug prices involves generic and brand name drugs, and Dr. Aldous suggests that physicians and pharmacists get together to resolve the situation.

Dr. Aldous explained that the use of the generic name of a drug, is like asking a commodity such as salt or butter. Ordering the brand or company name is like mentioning a certain make of salt or butter. The brand name is a company trade name for the generic drug, just as Aspirin is Bayer's name for acetylsalycylic acid or ASA.

A campaign in the press some months ago urged consumers to convince their doctors to prescribe a drug by the generic name, because these drugs are cheaper than the brand name equivalent, if bottled only under the generic

Several problems arise from the prescribing by a generic name. The first consideration must be the quality quarantee claimed by drug companies.

A recent joke in a magazine asked, "Wouldn't you rather pay twice as much for the Bayer cross on your Aspirin?" Advertisements plead "You would not want less than the highest quality medication for your family, would you?"

### STORM OF PROTEST

The Kefauver Drug Hearing in the U.S. in the early 1960's raised a great storm of protest about drug prices. Drug companies ever since have been attempting to regain their public image by advertisements emphasizing quality and research. Are the so-called researched and perfected drugs put out under brand name labels really giving more for your money?

The Food and Drug Directorate of the federal government does control the quality of all drugs and foods sold in Canada as far as impurities are concerned. But in drugs this is not the only consideration.

The oral drugs (taken by mouth) vary greatly from manufacturing methods. The coating and structure of a tablet might break down at different speeds or extent and therefore the active ingredients may be absorbed into the bloodstream to a greater or lesser degree. This question of therapeutic equivalency of drugs at various prices levels is impossible to answer.

But researchers are beginning to undertake some surveys. The Food and Drug Directorate examined 28 sulphadiazine products by blood assessments to see if they were all absorbed at the same level. There was great variation, but significantly the most expensive was not always absorbed the best. So efficiency bore no relation to price

### **EXPERIENCE**

Research is just beginning to show whether generic name drugs are as effective as brand name drugs. Real answers will come from practical experience on sick people. Experience is showing doctors and consumers that generic drugs are steadily improving. Manufacturers are taking the time to produce a good product to meet the demand.

The second problem arising from prescribing by generic names is that the pharmacist is under no legal obligation to fill the prescription with a cheap generic drug.

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# No fee hikes

Tuition and residence fees for 1972-73 at Dalhousie University are not likely to increase.

Dr. Henry D. Hicks, the president, said earlier this week that the budget committee of the Board of Governors had reviewed in detail the 1972-73 budget and, subject to minor revisions, was expected to make its recommendations to the Board within the next two or three weeks. It was not anticipated, however, that residence or tuition fees would be affected, he said.

In mid-February, when the university learned what its operating grant from the provincial government would be for 1972-73, budget-paring sessions began.

Operating expenses for next year are estimated to be \$30,650,000. The provincial government grant was \$17.9 million, and the balance of the university's revenue comes from student fees, restricted funds, and miscellaneous and endowment income.

# University to confer nine honorary degrees

Nine honorary degrees will be conferred by Dalhousie University at convocation ceremonies in May and June, it was announced yesterday by Dr. Henry D. Hicks, the president.

The degrees will go to:
Professor William Stewart

MacNutt, historian and former Dean of Arts at the University of New Brunswick;

Dr. Abe Gelbart, mathematician and Dean emeritus, Belfer Graduate School of Science, Yeshiva University, New York;

Dr. Joyce Hemlow, author and professor of English at McGill University;

Mr. Justice W.G. Morrow, Judge of the Territorial Court of the Northwest Territories;

Dr. Wolfgang Friedmann, Director of International Legal Research, School of Law, Columbia University, New York;

Max Ferguson, broadcastersatirist with the Canadian Broadcasting Corporation;

Dr. Harold Hillenbrand, executive director emeritus of the American Dental Association;

Mrs. Margaret Laurence, author; and

Dr. John Evans, presidentelect of the University of Toronto.

The degrees to Prof. Mac-Nutt, Dr. Gelbart and Dr. Hemlow will be conferred on the afternoon of May 11.

Mr. Justice Morrow and Dr. Friedmann will receive their degrees on the morning of May 12; on the afternoon of May 12, Mr. Ferguson, Dr. Hillenbrand and Mrs. Laurence will receive their degrees. At the Faculty of Medicine convocation on June 2, Dr. Evans will receive his

degree.

The afternoon ceremonies on May 11 and 12 will take place in the Dalhousie Memorial Rink. The Faculty of Law convocation, on the morning of May 12, and the medical convocation, on the morning of June 2, will take place in the Rebecca Cohn Auditorium of the Dalhousie Arts Centre. The afternoon ceremonies will start at 2 p.m., and the morning convocations at 10 a.m.

King's College will confer three honorary degrees at encaenia exercises May 10, it has been announced by Dr. J. Graham Morgan, King's president.

The King's degrees will go to: Very Rev. Harry Rhodes Cooper, dean of Fredericton;

Thomas H. Raddall, author, of Liverpool; and

Prof. Leonard P. Edwards, head of the mathematics department at the University of New Brunswick, Fredericton.

# Caterplan, Beaver get contracts

Beaver Food Services Ltd., caterers at Dalhousie University for the past three years, have been awarded the contract to operate the dining halls in the university's two residence, Shirreff Hall and Howe Hall.

Contract for the cafeteria in the Student Union Building was awarded to the Canadian National Institute for the Blind, Maritimes Division (Caterplan).

# Physicians, pharmacists

He will fill the prescription from what he has on stock. That stock, since it is expensive and perishable, consists of popular drugs frequently used.

Since physicians are ac-customed to the quality and performance of products of certain reputable companies, these drugs are prescribed often, and are kept supplied by pharmacists.

Drug companies operate then in a system very effectively in their favour. If a generic name is prescribed, the pharmacists may only have an expensive equivalent brand name drug in stock. Therefore, prescribing by a generic name of a drug does not, as the publicity campaign intended, guarantee the patient the lowest priced

Thirdly, the physician really must know what product the patient is getting. If the pharmacist fills the generic drug order, the doctor may not know which product has been given his patient. A second order or a refill of a prescription may not be filled by the pharmacist with the same product, although it would be chemically equivalent.

Often this materially influences the patient's reaction to the treatment. He may be sure the red pill works and the blue pill doesn't. There is no guarantee of continuity of drug products, and this is poor therapy. The patient's confidence in his physician may be damaged if he feels a satisfactory treatment has been changed unaccountably.

With their claims of higher quality being doubted, drug companies are introducing a new tactic in advertising. They emphasize the importance of the doctor's freedom to choose which drug to prescribe, on the basis of its proven effectiveness.

Some states in the U.S., in an effort to beat the drug companies' prices, are considering making it illegal to prescribe anything but generic name drugs. This advertising campaign is probably an effort to counteract the new public pressure. The companies are relying on the proven effectiveness of promotion in convincing doctors to prescribe their durgs.

### PERSPECTIVE

Dr. Aldous says, "No one disputes that pharmaceutical companies have developed good drugs, but we are concerned with prices and the remarks used by these companies to justify their prices. We must keep these in perspective.'

The primary reason given for high prices is the research cost developing new drugs, the company claiming that it must recover the cost of its investment. Dr. Aldous says this claim may be a red herring.

In a U.S. survey over a 10 year period 2,000 so-called new drugs were introduced on the market, 200 were new chemical entities, 90% were changes in old drugs in the size of the dose in the tablets, or a new formulation of an old drug, such as adding a third drug to a previously sold combination of two. etc.

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However, all were legally considered new and equally deserving of high price to cover these research costs.

A second illustration indicates that price fixing rather than research causes high drug prices. The Kefauver Drug Hearings publicized the fact that companies buy patent rights, legally effective for 17 years. The successful buyer of patent rights may sell the product to other companies who in turn sell under their own trade name.

The price never varies on these products so it appears the companies all must guarantee to charge a certain price.

Three drug companies, American Cyanamid, Bristol Laboratories, and Charles Pfizer were convicted Dec. 29, 1967, in New York of anti-trust charges and fined \$150,000 each, the maximum penalty. These convictions opened the door to lawsuits from major purchasers of the antibiotic involved in the case, tetracycline, which is produced for as little as 1.6 cents a capsule, but retailed at 51 cents each.

These three companies, and two others Upjohn Co., and Squibb Beech Nut Inc., were then sued by states, local governments, and private hospitals for overcharging, or price fixing.

The companies however, were able to settle out of court for \$120,000,000. The settlement allows the companies to go on charging as previously. The size of the settlement might suggest something of what was at stake financially for these companies in lost profits, if the major consumers had pursued their case and won.

With drugs which are not patented, like penicillin, streptomycin, insulin, competition between companies lowers the price steadily. Companies develop better production methods to compete.

In a unique action in Canada, the Patents and Trade Marks Acts were amended June 27, 1969. The Commissioner of Patents is empowered to grant compulsory licences to applicants who want to manufacture, sell, or import drugs formerly protected by a patent for 17 years. This negates the patent rights of manufacturers.

After one year an assessment was made of the effect of the legislation on drug prices. Applications had been made to import 29 different drugs, most popular drugs in hospitals. Significant price reductions have been noted, with competition brought to the market for that drug.

### PROMOTION

Another reason for high prices is the cost of promotion campaigns, free samples, meetings, and parties sponsored by drug companies to woo doctors. As mentioned earlier this is a proved effective method of sales, since doctors prefer to prescribe drugs they

If prescribing only the generic name of drugs does not guarantee a patient the lowest priced products, what are some solutions?

Dr. Aldous suggests that a move initiated by the Ontario government in this field has been a significant step. A bulletin of comparative wholesale drug prices is published regularly, as different drugs are researched. This is called Ontario Parcost Program.

Soon after this project began the federal Food and Drug Directorate decided to publish the Rx Bulletin covering more drugs. These bulletins show there are differences in price, even among brand names. If a manufacturer does not appear in the Rx listings, either a sample to use for assessment was refused, or it did not meet standards.

Publications like these inform doctors of relative prices in a readily available comparative Since doctors do prescribe known products, an effort to educate them in cheaper alternatives should be made through continuing medical education. Dr. Aldous and others teach medical students to use these new of information sources available to doctors and to recognize the responsibility of the doctor to know the relative

Dr. Aldous says doctors could give a generic name prescription with a brand or good manufacturer's name in brackets. But he suggests the pharmacists and physicians should meet and formulate solutions.

The pharmacists can be asked to stock and suggest a good generic name drug. He has information useful to the physician since he is the drug expert. A closer liaison would go a long way to resolving the questions that cannot be answered yet.

### TWO STUDIES

Two studies relating to drug prices are presently in progress in Nova Scotia. Dr. Aldous is studying variations in drug costs in Nova Scotia hospitals. A given brand varies from one hospital to another, certain drug items up to 10 or 12 times.

This large diversity of prices exists for two reasons, bulk purchase possible in a large hospital, and the calling of tenders, with a list of all requirements sent manufacturers for bids.

A Task Force directed by Dr. William Woodfine has been appointed by the Nova Scotia Health Council to advise the government on action required to alleviate the effects of high drug costs.

Task Force is examining, not whether prices are too high, which is more effectively researched and solved federally, but rather, is good health care delivery inhibited in Nova Scotia by the

Who is being hurt—the low income family, the elderly and those on fixed income, or people with long term illness?

Armed with the answers the committee can then assess responses available government. Some alternatives could be comprehensive Pharmacare for all, costing up to \$25,000,000; a limited, less than comprehensive insurance to a certain group of defined needy, a welfare solution, or free drug service along with existing health services, such as out-patient departments.

# ABC back business

Atlantic Business Consultants, a partnership of MBA students associated with Dalhousie's School of Business Administration, is again this summer offering specialized services to governments, institutions and business.

The first major venture this year will be a contract to do the photographic work for the Dalhousie Spring Convocations next month.

Primarily to raise money to enable the students to continue studies next year, other objectives of the group are to gain valuable practical experience in the world of business while providing useful services, and making local and regional business communities more aware of the School of Business Administration at university

For the past two summers the firm has provided business and government agencies with wide ranging services in the following areas: cost studies, systems analysis, market research, consumer surveys, financial planning, feasibility studies, advertising and sales promotion, personnel administration, convention co-

ordination, special events programming and information gathering assignments.

Projects have included a major marketing research project with a Nova Scotia government agency, capital equipment analysis for a local manufacturer, capital budgeting and profit analysis for a local manufacturer, capital budgeting and profit analysis and a cost study.

The six partners are all Canadian graduates of universities, and each has spent a number of postgraduate years in the business community. Brian Colvey, BA, Math (Carleton University); Allan Wiggan, BA, (UBC Van-couver); Bill Pieschel, BA, of Calgary, (University Alberta); Keith Laws, CA, B. Comm., (New Brunswick); Reg MacAusland, BA., B. Ed. (Prince Edward Island); and Bob Matthews, B. (Acadia).

While ABC is organized and operated by the graduate students, it has the blessing of the School of Business Administration and if need arises, can turn to members of the faculty for advice.

# Three briefs on environmental problems

Among the briefs presented today (Friday) at a hearing on environmental problems, are several from Dalhousie University. The hearing is being held at the Holiday Inn, Dart-

Dr. Gordon Riley, director of the Dalhousie Institute of Oceanography will present a brief on marine problems in the area, comment on relevant programs at the university and the formation of an Institute of Environmental Studies.

Other papers include one by biologist Dr. James G. Ogden, on pesticides and environmental management, and one on acoustics and noise pollution by Dr. A.L. Levin of engineering physics.

The hearing, one in a series sponsored by the federal Department of Environment, is being held to gather information for presentation during the United Nations conference on the Human Environment in Stockholm

## **Commission expects** least 30 briefs

More than 30 agencies, organizations and individuals have given notice of intent to submit briefs to the Welfare Minister's special commission on protection services in the province.

Prof. Murray Fraser, Acting Dean of Dalhousie Law School, and Lawrence Hancock, Director of the Maritime School of Social Work, have been nominated to the commission which will study existing programs, facilities and structure of the province's special protection program, family courts, and the Nova Scotia Schools for Girls and Boys.

The commission will also study the impact of the proposed Young Offenders' Act on these services.

In May and early June public hearings will be held in Halifax and various centres throughout the province, at which those who did not make a submission, will be free to speak.

Professors Fraser Hancock will meet as many individuals personally as they can and solicit from knowledgeable persons in the protection services who may not be submitting a formal

# **Documentary** on **Benign Neglect**

Benign Neglect, a report by Dalhousie Legal Aid Service, on the need for legal aid and law reform in the Family and Juvenile Courts of Nova Scotia, published in September last year, will be the subject of an hour-long documentary on CBC radio on May 8.

The program, to be heard across Canada in the "Between Ourselves" series, is an expanded follow-up to the CBC Maritimes broadcast of last December

Interviews will feature Solicitor-General Jean-Pierre Goyer, Hon. Allan E. Sullivan, Nova Scotia Minister for Public Welfare, Judge Louis Edwards of Cape Breton Family Court, Professor D.R. Lowry of Dalhousie Law Faculty and director of the Legal Aid Service, and two students who took part in the research project last summer - Andrew Winstanly of Victoria B.C., and Paul Mullin of Prince Edward Island

### **University News**

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

# summer school Good response

The response to the co- class on an ad hoc basis. ordinated three-year summer school program inaugurated by Dalhousie and Mount Saint Vincent universities has been good.

Organizers of the scheme anticipate that enrollment will reach 1,500 for this year's two summer sessions.

The two universities have combined their resources to provide a new summer school program offering a broadened selection of courses extending over the next three years. This is a unique program nonexistent among other Canadian universities.

What the new program offers is an opportunity for the student to concentrate on good program planning in structuring his undergraduate course, rather than selecting a summer school will be done by a general

It also provides him with a chance to accelerate his program. In addition the parttime student, whose study span extends over a longer period of time, can now plan a sound and integrated academic program.

There are additional features to the new program.

Classes will not be cancelled owing to small enrollment. In this way a student who is planning ahead in progressive steps will not have his program interrupted arbitrarily. The time slots for classes are spread across the morning and evening in both sessions to suit the various kinds of students attending - men and women, full and part-time.

Processing of applications

secretariate for the joint summer schools who will refer the application to the appropriate university for verification of the student's accessibility. Classes will be given at both Dalhousie and Mount Saint Vincent, with a class credit being accepted at either institution.

The classes given this summer will comprise a minimal program with the departments of sociology, mathematics, economics and English offering an initial projection of classes to be rotated over a three-year

Other departments are giving a number of classes which students can use as electives or support classes for their particular program. Plans are now underway by some departments to begin a similar rotation in their areas of study beginning next year.

Graduate classes will be given in education and home economics education. Students in English who plan to do graduate work in this field will be able to take honours English classes this summer. For the first time the Dalhousie chemistry 110 will be given over an eight week period.

Total class offerings are as follows:

1972 session: 40 classes in the first term, beginning May 15, 53 classes in the second term, beginning July 4.

1973 session: (tentative) 26 classes in the first session, 35 classes in the second session. 1974 session: (tentative) 25 classes in the first session, 34 classes in the second session.

# Four seminars in May

Motivation, Human Resources, Administrating the Collective Agreement and Public Relations will be the themes of four different seminars sponsored by Dalhousie University's Advanced Management Centre during the month of May

Top discussion leaders will be on hand for the sessions which are designed for middle and senior management people in business, government and in-

stitutional organizations.

The manager's ability to understand motivation is a critical factor in his effectiveness and a two-day workshop beginning on May 2 will cover key areas in the motivation process as it pertains to the individual, the group and the organization.

Discussion leader will be G.A. Hillier, industrial relations manager with Nova Scotia Light and Power, who has a wide experience in human relations training.

On May 9 and 10, John Misisk, chairman of the department of commerce and director of the master of business administration program at Dalhousie will serve as seminar leader for a workshop dealing with collective agreements and continuing labour-management relationship.

Among the key topics to be iscussed are the indiscussed are the in-terdependence of grievance procedures and arbitration, the need for effective grievance clauses in the agreement, the components of an effective grievance process and the development of understanding at the supervisory level.

A seminar on human resource management will be given in Saint John, N.B., on the same two days May 9 and 10 when P.T. Kehoe, chairman of the department of business administration at the University of New Brunswick act as the resource person. He teaches in the areas of management and organizational behaviour.

The objective of this two-day seminar will be to help managers of industry and government understand the individual and his relationship within the organization.

A one-day seminar entitled Public Relations Profile will be offered on May 25.

This seminar is designed to show managers what public relations can do for the communications conscious organization. Seminar content will cover the public relations function in an organization, take a look at the four-step process used in carrying out a PR proposal and examine the trends in communication and communications technology.

Special workshop leaders will be Yves Jasmin, vice-president (public relations) for Air Canada and Professor Louis G. Vagianos, director of communications at Dalhousie.

# Drilling in Bermuda

How old is Bermuda, what are the secrets of the long dead volcano beneath the coral growth which forms the island's

Scientists from Dalhousie University are trying to find out by drilling to a depth of 2,500 feet into the body of the island — the first time such exploration has been tried.

Geologists Dr. Fabrizio Aumento and Dr. J.M. Ade-Hall and undergraduate student Keith Taylor are in Bermuda until June taking deep drill core samples of the mineral content of the island, measuring the age of rocks, magnetism, and the heat flow from below.

The present exercise is part of a continuing study on the nature of the earth's crust beneath the oceans. Last summer Dr. Aumento was chief scientist for Deep Drill '71, a combined geological and geophysical survey cruise to the Mid-Atlantic Ridge.



DR. AUMENTO

This year's program will not only contribute to our knowledge of the earth's crust, but also give Dalhousie scientists the experience necessary for handling a larger project scheduled for 1974, when scientists from the university and Bedford Institute of Oceanography will join others from Canada and the United States aboard the American drilling ship "Glomar Challenger" out on the mid-ocean ridge.

Born in Rome, Dr. Aumento received his early education in England. A graduate of St. Benedict's Public School and the University College of London, he subsequently received his M.Sc. and Ph.-D. from Dalhousie University.

He is also the author of many articles which have appeared in major scientific journals; was research scientist with the Geological Survey of Canada for 1965-69 and Senior Killam Fellow at Dalhousie

### PROFESSOR HARRISON, School of Library Service, is one of the Canadian delegates attending the first International Library Conference to be held in Jamaica. The Conference follows the recent establishment of the Department of Library Studies in the University of the West Indies.

"Probability Models With Business Applications," written by DR. ROBERT SHOOK of Dalhousie has been translated into Japanese by SHINOHU
MURAMATSU. Dr. Shook
teaches Quantitative Methods in the department of Com-

Mr. Muramatsu, now teaching at the Chinese University of Hong Kong was graduated from Dalhousie in 1969 with a Commerce M.B.A. degree. While at the university he studied Operations Research under Dr. Shook.

Published by Kajima Institute Publishing Co. Ltd., the Japanese translation rights were arranged through Orion Press, Tokyo.

ERIC GOZNA of Yarmouth and ROLAND CHAISSON of Sydney, third year medical students shared the Dr. J. Earle Hiltz Medical Association Award presented for the first time in 1971.

"Professor of the Year" award for 1972 was presented to DR. FRASER NICHOLSON of Halifax by the Dalhousie Medical Student Society at their annual banquet. This is an honor awarded to the professor who, in the opinion of the 4th year class, has been their most outstanding teacher.

## **PEOPLE and PLACES**

# Three courses offered by Faculty of Dentistry

Three continuing education courses in dentistry will be offered by Dalhousie University Faculty of Dentistry next month.

Operative Dentistry for Dental Hygienists, a two month course for graduate dental hygienists, will be held through May and June. Financial assistance is available to some candidates through the Department of Manpower and Immigration.

Conducted by Dr. H.J. MacConnachie and his staff, leactures through and laboratories, the course will dental anatomy. cover operative dentistry and dental materials, and include clinical practice for both child and adult

A one day course in Oral Surgery will be presented on May 5 at the Victoria General Hospital, by special guest professor Dr. James R. Hayward, University Michigan.

Dr. Hayward obtained his DDS and MS degrees from the University of Michigan and is at present co-chairman of the department of Dentistry and Oral Surgery in both the University of Michigan Medical Centre and the University of Michigan Hospital.

Past President of the American Board of Oral Surgery and the American Society of Oral Surgeons, he is also one of only two honorary members of the Canadian Society of Oral Surgeons.

The third course, emphasizing Periodontal Therapy and conducted by Dalhousie specialists Dr. D.G. Pentz and Dr. E.J. Hannigan, will be presented May 12 and 13, at Memorial University, St. John's, Nfld., for dentists and dental hygienists.

Dr. Pentz, associate professor of periodontics, graduated from the University of New Brunswick and received his DDS from Dalhousie in 1947. He also has a diploma in periodontics from Tufts. A member of both the Canadian and American Academies of Periodontology, he is past president of the Nova Scotia Dental Association and registrar-secretary of the Provincial Dental Board of Nova Scotia

Dr. E.J. Hannigan, assistant professor of periodontics, graduated from St. Francis Xavier and Dalhousie. After two years in general practice in Halifax he entered Boston University, graduating in 1970 with a Master of Science in Dentistry and a certificate in Periodontology.

At present on the part time staff at Dalhousie, he is also in private practice in the city and a consultant in dentistry at the Izaak Walton Killam Hospital

for Children.

Dr. Hannigan is a member of the Canadian and American Academies of Periodontology and secretary of the Halfax County Dental Society.

DR. C.W. BECKWITH, retired executive secretary of the Nova Scotia Medical Society was named Alumnus of the Year at the annual meeting of the Dalhousie Medical Alumni Association. DR. D.C. LANGILLE

(Neurosurgery) is attending a two-month radio-pathologic course at the Armed Forces Institute of Pathology in Washington, D.C. Dr. Langille is doing post-graduate work in diagnostic radiology with Dalhousie University and the Victoria General Hospital.

The proceedings of the International Conference on Tidal Power, held at Nova Scotia Technical College last May, have now been published in book form.

Entitled Tidal Power, and edited by DR. T. J. GRAY, director of the Atlantic Industrial Research Institute at Tech, and DR. O.K. GASHUS, head of the department of Electrical Engineering, the book is available through Plenum Press for \$28.

### Three more sessions in seminar

The current series of seminars sponsored by the Department of Psychiatry at Dalhousie is drawing to a close. On Friday, May 5, Dr. M.

Burslem will speak on Halfway House and, on May 12 and 19 reports on the American Psychiatric Association meetings will be read by staff who attended the meetings. Program for the final meeting on May 26 has yet to be confirmed.

All meetings take place on the 11th floor, Centennial Wing, Victoria General Hospital, at 4 p.m., and are open to interested persons in the profession.

# Summer displays planned

The summer schedule for exhibitions and displays in the Killam Memorial Library has been announced.

From May 3-31 the Special Collections Area (Harvey Room) will feature historical documents and photographs of Dalhousie. Among the items are an early Minutes Book dated 1820, the students' petition for Munro Day, yearbooks, newspapers, letters, and building and class photographs.

Eighteenth and early nineteenth century books and engravings of the Maritimes will form the exhibition during June, July and August. Included will be engravings by J. E. Woolford, draftsman to the Earl of Dalhousie, H. Pooley, William Eagar, William Hickman and Shortt and books by century Haliburton, James DeMille and J. M. Oxley.

The first exhibition of the fall, in September, will feature memorabilia of Ellen Ballon, famous Canadian pianist. The collection will contain music manuscripts; a Mozart score; letters from composers; autographed books photographs; early 19th century first editions and the Epstein bust at present in the Dalhousie Arts Centre.

The annual Neptune Theatre exhibition will open in October.
Plans for the Killam Library

main lobby display cases are still tentative. However, the exhibit of Dolls in National Costume, postponed in April, has been rescheduled for May 4-29. The dolls are from the private collection of Mrs. Stompton, North End Branch of Halifax Regional Library.

The Wednesday morning sale of discarded books, discontinued for the time being, will be started again on May 17 at 10

# Chamber festival May 13

A "Saturday of Chamber Music'', sponsored Dalhousie Department of Music, is planned for Saturday, May 13, from 9 a.m. to 4:30 p.m. in the Arts Centre.

The festival, open to chamber from schools ensembles throughout the province, will feature workshops in instrumental music conducted by specialists from Dalhousie and the Atlantic Symphony Orchestra. It will also give student musicians a chance to hear each other in performance

in a non-competitive setting.

Over 120 students from New Waterford, Amherst, Middleton and Halifax metropolitan area took part in last year's festival, and more are expected this

Any group interested in entering an ensemble or wishing to obtain details should contact Professor John Galish, 424-2086, or the music department office, 424-2418.



The Leonardo da Vinci exhibition in the Dalhousie Arts Centre was officially opened by Canadian contralto Maureen Forrester. She is shown with Dr. Henry D. Hicks, university president, and Ernest Smith, gallery director.

# Refresher courses drawing to a close

The current series of short refresher courses for practising physicians presented by the Division of Continuing Medical Education, Dalhousie Faculty of Medicine, is drawing to a close for the year.

Six times each academic year teaching visits by Dalhousie medical specialists are paid to community hospitals in the Maritime provinces. The wide variety of fields covered include among others office psychiatry, haemotology, obstetrics and gynaecology, dermatology, respiratory system problems, immunology and preventive medicine and various types of

In a recent article in the Nova Scotia Medical Bulletin, Dr. Lea Steeves points out that the Dalhousie Refresher Course was introduced 46 years ago at a time when medical schools showed little or no interest in the competence of graduates.

"Government, through the Provincial Medical Board, shows a specific interest in

continuing medical education through the provision of the annual 'Dr. John Stewart Memorial Lecture' and by an annual grant to provide or assist in the provision of postgraduate medical education...Voluntary agencies such as the Nova Scotia Heart Foundation and the Nova Scotia Division of the Canadian Cancer Society recognize the doctors' need for keeping current in their areas of interest through grants to the Division of Continuing Medical Education Dalhousie University.'

Through the publication of scientific articles in its Journal, and in other ways, the medical Society of Nova Scotia has shown interest in quality medical care through continuing education, and the College of Family Physicians of Canada is one of a small group professional societies requiring evidence of such continuing medical education as a condition of membership.

## CONVOCATION WEEK **SCHEDULE**

### MONDAY, MAY 8

**5 p.m.** — McInnes Room, SUB — Registration and "Ice-Breaker" COCKTAIL PARTY. Alumni Association Reunion: Class of '22, '47, and '32.

6:30 p.m. — McInnes Room, SUB — BUFFET and ALUMNI ANNUAL MEETING.

### TUESDAY, MAY 9

10 a.m. — Faculty Club — Alumni Association Reunion, Class of '22, '32, and '47 — COFFEE & DANISH followed by a tour of the Life Sciences Centre.

12:30 p.m. — Shirreff Hall — Alumni Association Reunion

LUNCHEON hosted by Dr. Henry D. Hicks.
6:30 p.m. — Cameron Dining Hall — Alumni Association
Reunion CLASS DINNER — Class of '22 and '47.—

6:30 p.m. — Halifax Club — CLASS DINNER — Class of '32. 7:30 p.m. — Sir James Dunn Theatre, Arts Centre — BAC-CALAUREATE SERVICE.

9 p.m. — McInnes Room, SUB — WINE AND CHEESE PARTY — Graduating students and guests.

### WEDNESDAY, MAY 10

9 a.m. - Memorial Rink - Convocation REHEARSAL for

10:30 a.m. — Memorial Rink — Convocation REHEARSAL for

- Alumni Association Reunion Class of '22, '32, '47 -CAMPUS TOURS, ending with coffee at Sir Charles Tupper Medical Building.

2:30 p.m. - King's Gym - KING'S UNIVERSITY CON-VOCATION.

6:30 p.m. - R'N.S.Y.S. - Alumni Association LOBSTER SUPPER.

8:30 p.m. — Cohn Auditorium — The Dublin Corporation with Peter Law IN CONCERT — for graduating students and guests.

10:30 p.m. — Green Room — CONCERT POST MORTUM, with bar, for graduating students.

### THURSDAY, MAY 11

2 p.m. — Memorial Rink — CONVOCATION for BA., BSc., BSc (Eng. Phys), B. Com., Dip. Eng., B.Mus. Ed.
9 p.m. — McInnes Room, SUB — GRADUATION BALL —

with the Dublin Corporation. For graduates and guests.

### FRIDAY, MAY 12

10 a.m. - Cohn Auditorium - CONVOCATION for LAW GRADUATES.

2 p.m. — Memorial Rink — CONVOCATION for Dip. Physio. Dip ON., Dip. NSA., Dip. PHN., BPE., BSc (Pharm), BN., Dip. Ed., B.Ed., Dip. Dent, Hyg., DDS., MA., MSc., MBA., MPA., Dip P.A., MLS., Dip SW., MPE., PhD.

### TUESDAY, MAY 16

3 p.m. - MSVU, Seaton Academic Centre - CONVOCATION.

# Professors get \$18,000 grant

Two Dalhousie University professors have received an \$18,000 grant from the Medical Research Council of Canada to carry out a program of research on the treatment of sexual frigidity in women.

Dr. William Caird and Dr. John Wincze of the psychology department will conduct the research over the next two

Using a new approach, they hope to develop procedures which will be effective and practical for the treatment of

this serious problem; it has been estimated that from five to 33 per cent of women suffer from frigidity, ranging from complete or partial absence of sexual arousal to actual pain or serious discomfort during in-

Frigidity is widely accepted as a source of serious marital difficulties, with about 15 per cent of married couples being affected.

At present there is no effective treatment for the large number of women involved.