



# University News

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Dalhousie University

February 7, 1980

## NSERC strategic grants program

# \$600,000 for Dal researchers this year

by Roselle Green

Grants worth almost \$600,000 for 1979-80 have been made to Dalhousie researchers as part of the Natural Sciences and Engineering Research Council's strategic grants program.

The awards are in support of university research aimed at contributing to the understanding or solution of problems of national concern in five designated areas: communications, energy, environmental toxicology, food / agriculture and oceans.

### Ocean Subventions

Professor **Carl Boyd**, oceanography, with **R.O. Fournier**, a strategic equipment grant for \$23,000. Funds from this grant will allow the modification and updating of an electronic apparatus which is designed to map such features of seawater as temperature, salinity and phytoplankton and zooplankton concentrations on a continuous basis by monitoring seawater pumped aboard a research

vessel. This apparatus was originally developed in the Oceanography Department and similar units have been built for use by other research institutions by a local electronics firm.

Prof. **Joe S. Wroblewski**, oceanography, \$18,000. The ultimate goal of this study is to enable prediction of recruitment to commercial fish stocks based on readily measured environmental factors such as wind, oceanic current flow and solar radiation. Production of fish stocks is sensitive to such factors as they may affect the "critical period" when fish larvae begin to feed. In particular, this study will look at the herring and mackerel populations of Georges Bank and Georges Bay.

Prof. **Chris Garrett**, oceanography, \$46,500. Funds from this grant will be used to purchase current and temperature sensing equipment for use in various ongoing projects in physical oceanography. Dr. Garrett has an ad-

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## 17% only partial rectification, says Hatcher



Dr. J. Donald Hatcher

# Medical school suffers from regional disparity and federal neglect

by Barbara Hinds

Dalhousie's medical school suffers from regional disparity and the federal government's long-standing neglect of medical research will be rectified only partially by the 17 per cent increase in the Medical Research Council's (MRC) budget for 1980-81.

The Dean of Medicine, Dr. J. Donald Hatcher, says that 17 per cent sounds like a lot of money, considered in the light of wage increases, but it still leaves a shortfall.

"Science's inflation rate has been 17 per cent for the past several years, and the MRC increments have not kept pace with this. So the 17 per cent will do little more than meet the inflation rate of the past 12 months.

"It will not permit any noticeable expansion to existing research programs nor the introduction of new ones."

The federal government's history of restraint and curtailment has contributed to a regional disparity that can wither research at the Dalhousie medical school, says Dr. Hatcher.

He was gratified to learn of the recent appointment of Dr. Matthew Spence, a Dalhousie faculty member, to the 22-strong Medical Research Council.

For the previous three years, the medical school has not had one scientist on the council, although the medical school serves the three Maritime provinces. The appointment will help to redress the imbalance, he said.

Dr. Spence is a researcher, a pediatrician, and the director of the

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# Election '80

See page 3



# The Hicks Era Part 4

Dr. Hicks talks about:

See pages 6 and 7.

The law school and public life;  
A move to keep him out of politics;  
The cost of university education.

FITNESS NOW!

To the Unfit  
If you just sit  
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PARTICIPATION  
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Five years of examination

by Roselle Green

## Wealth of data accumulated as squid studies snowball

Lack of basic information about the biology of squid led Dalhousie professor **Ron O'Dor**, more than five years ago, to undertake a study that has virtually snowballed in terms of data and interest.

Where squid breed, and where they migrate after they leave shallow water, prompted O'Dor to raise the specimens in captivity. He began by having a number of them brought into the Aquatron's large pool tank, where he applied a series of techniques to make them mature early. As they matured, they were placed in the high tower tank, where changes in their day-night vertical migration patterns were monitored. This was a first step in explaining why squid leave shore areas for deeper waters.

What has happened since the first squid went into the pool tank five years ago is encouraging, according to O'Dor.

We have been able to keep squid for significant periods of time for the past three years—in fact for nearly the

entire life cycle of the animal, says the researcher. We know something about their mating habits. We know what their egg masses look like and we can for the first time identify the larvae from them. We know, too, that the young larvae move north with the Gulf stream, grow rapidly in the nutrient rich upwelling along the edge of the continental shelf, move inshore to feed from about May to November, and then head out to deeper waters to spawn.

"Our collaborators in the federal fisheries department are accumulating masses of data about squid in the wild, and while we've determined the squid's life cycle in the lab, we still don't understand it in the sea."

"This is the ultimate puzzle where all the pieces must fit," says O'Dor. "We haven't solved this puzzle yet, but at least we've found most of the pieces."

Dr. O'Dor's work is continuing with support from Fisheries and Oceans Canada, and the Natural Sciences and Engineering Research Council.



**Ron O'Dor . . . the more we understand about the squid, the more we are confronted by additional questions. However, within this framework we are learning some rules about the conditions which govern the abundance. We have made considerable progress in the last two years.** (Green photo)

An extension of his initial project is to work out an energy budget for squid. O'Dor's associates here at Dalhousie will measure how much energy squid use in the process of digesting their food while he is on sabbatical at the Pacific Biological Station in Nanimo, B.C. There he will be making use of a tunnel respirometer to measure the squid's oxygen consumption during swimming (another major energy expenditure). Work on feeding and growth rates has already been completed at Dalhousie.

In the applied sense, Dr. O'Dor says, we want to be able to predict how many squid there will be next year so that a sensible quota and fishing effort can be planned. "This year's winter larvae samples from the Gulf Stream gave us a hint of a large population coming inshore during the 1979 season." To make earlier predictions we must understand how the squid divide their food resources between energy expenses and eggs for reproduction.

## \$600,000 for Dal

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ditional grant of \$80,000 for research in the area of physical oceanography of banks and seamounts. The theoretical component of this study involves the basic dynamical mechanisms associated with such submarine topographical features as Georges Bank, Hamilton Bank and Flemish Cap, all productive fishing grounds. Experimental work will include measurements of currents and thermal structures in key locations. It is hoped to establish a theoretical framework which will permit estimates of circulation and mixing that can be related to existing data. These estimates could be used as input to biological models and may provide clues to the causes of inter-annual variability.

Prof. **Robert Cooke**, oceanography, with Prof. **R. Moore**, \$4,000. This study involves examining the way in which organic carbon compounds are cycled in the marine environment, how rapidly these substances leave the productive surface waters as organisms die and what happens to them at greater depths. The problems associated with increasing concentrations of carbon dioxide in the earth's atmosphere are closely linked to this study as the oceans play a primary role in removing excess carbon dioxide from the atmosphere.

Prof. **Robert Moore**, oceanography, \$28,000. The concentration and distribution of three elements in the pore waters of nearshore marine sediments will be studied. This project is designed to describe in more detail some reactions occurring in the

sediments, to quantify their importance in the overall balance of dissolved elements in the oceans and to calculate the rate of movement of these elements across the sediment-water interface. These are substances which greatly affect the chemical composition of seawater and an understanding of processes such as these may be indispensable in assessing the impact of man's activities on the oceans.

Dr. **Pat Lane**, biology, \$25,875. The award will be used to examine the qualitative structure of marine ecosystems and their response to stress. It is a comparative study of the community structure of plankton in St. Margaret's Bay and Bedford Basin.

Prof. **Ken Mann**, biology, with **E.C. Pielou**, and **A.R.O. Chapman**, \$40,000. The grant will go towards studies on the ecology of harvested brown algae in Nova Scotia. Dr. Mann will continue work already in progress on the destruction of seaweed; Prof. Chapman will concentrate on the population dynamics of seaweeds; and Dr. Pielou will be involved in rockweed studies.

Dr. **James M. Hall**, geology, \$15,000, with **I.D. Reid**, **M. Zentilli**, **P.H. Reynolds** and **P. Ryall** (Dalhousie), **J. Dostal** (St. Mary's) and **I.L. Gibson** (Guelph). The grant is for a new investigation of the crest of the mid-Atlantic Ridge using an electric bottom drill.

**Barry Paton**, physics, \$15,525. The funding will permit continued study into the feasibility of replacing copper conductors with glass fibres as the transmission media in diving umbilical cables.

### Communication Grants

Dr. **Donald Arnold**, chemistry, has received two awards. They are a \$17,000 award for research involving a new class of organic photochromic materials potentially useful for processing and storing optical signals and a \$21,093 equipment grant for a scanning UV-visible double beam spectrophotometer.

### Environmental Toxicology Awards

Dr. **John Crocker**, paediatrics, with **K.R. Rozee**, **S.H.S. Lee**, **K. Renton**, **H.A. Robertson**, **S.H. Safe**, \$50,000. The research will deal with synergistic action of viral chemical combinations.

Announcements of environmental toxicology grants to **D. Regan** (psychology, \$14,000), **F.C. Law** (pharmacy, \$31,000), ocean grants to **L. Haley** (biology, \$40,000) and **J. Hall** (geology, \$150,000) were made earlier in *University News*. These amounts are included in the \$600,000 total.

## Refresher course for doctors

A refresher course for doctors will be held at Dalhousie Feb. 27-29, coordinated by the Division of Continuing Medical Education.

The Spring Refresher Course, as in the past few years, is geared toward emergency medicine and will this year feature sessions on dealing with emergency situations which happen outside the hospital emergency room, such as roadside accidents.

Another new addition to the course is an update on recent advances in family practice which will discuss: Treating Alcoholics in the '80s, Infectious Disease, Advances in Prevention of Hypertension and Periodic Health Screening, among others.

Kathy Cody, one of the program coordinators, said she expected approximately 100 physicians from the Maritimes, and hoped the course would attract many doctors from the outskirts, many of whom did not have ready access to emergency room procedures.

One guest speaker will be **Dr. Dennis Psutka**, Director of Emergency Services at McMaster University. He is also a member of the courtesy staff of St. Joseph's and the Hamilton Civic hospitals, and is an assistant professor in the Department of Family Medicine at McMaster.

## Halifax candidates in law school debate

The three Halifax candidates in the Feb. 18 general election attended last week's Law Hour and debated a number of issues.

### Cathy Kerr's report:

"It's a tough budget," said NDP Alexa McDonough about the proposals of the Tory government. To ask all Canadians to make the same sacrifices, low and high income families alike, was unfair. As for the tax credit provisions proposed, "The NDP has been advocating tax credit provisions for years, and without the increases in the Clark budget."

Gerald Regan, the Liberal candidate, also spoke strongly against the budget, claiming that the 18 cent tax was regressive.

"It's a disaster! You don't fight inflation with more inflation."

The question Do you honestly feel that your budget is a fair one to people on fixed income or low income? was directed to PC candidate George Cooper, who maintained that the budget was a good one, especially with the allowances for tax credit provisions and the proposed "cushioning" for the cost of gas and oil.

What role are the major oil corporations playing in Canada's future?

Mr. Regan disagreed with the idea of handing out shares in PetroCan, saying that "... without PetroCan I don't know what we would do. PetroCan walks side by side with private companies."

Mr. Cooper maintained that the only possible way to strengthen PetroCan was to make it a private company. The Conservatives favoured public enterprise where feasible, he pointed out, but PetroCan had lost money, and now money would have to be put back in.

Mrs. Alexa McDonough agreed that PetroCan's role had to be expanded, adding that she believed that in the short time it had been in existence, it had been a success.

"We must curb foreign corpor-

ations," she said, mentioning the 85 per cent foreign ownership of the petroleum industry in Canada.

A big issue was, of course, energy. Had any of the parties considered a rationing method? was one question asked.

None of the candidates had any intention of suggesting rationing measures, all taking the view that the focus should be on conservation.

"The NDP is advocating a quick move on conservation measures to avoid rationing," said Mrs. McDonough. "There has to be a much more serious reallocation of money to alternate energy sources."

Mr. Cooper again spoke of the "cushion" for low income Canadians, and mentioned the home insulation program and the retrofit furnace, all part of the budget package.

There was a lively discussion between Mr. Cooper and Mr. Regan about the Fundy Tidal Power Project, with Mr. Cooper maintaining that nothing had been done by Mr. Trudeau or Mr. Regan in all their years in government. Mr. Regan snapped back: "Power from the Fundy Power Project could light this law building."

On the question of offshore jurisdiction between the provinces, Mr. Cooper felt that offshore resources should be allotted to the provinces, and that the provinces should have the right to determine policy. Mr. Regan said that to give the ownership to the provinces would require a constitutional change, with agreement of all provinces. He advocated the proposal drawn up a few years ago in the Maritime provinces, that 75 per cent of the gross revenue be given to the provinces, and 25 per cent to the federal government, from which substantial amounts should be paid toward pollution control.

Alexa McDonough said: "We are going to develop the economy of this nation in the interest of all Canadians."

She felt there should be no "me first" from the provinces.

## Medical school

Cont'd from page 1

Atlantic Research Centre for Mental Retardation in Halifax.

The MRC is composed of scientists appointed by government, and its decisions help to develop research policies for the country.

British Columbia and Manitoba, which both have a medical school, each have two MRC representatives; Ontario has five schools and six representatives; and Quebec, with four medical schools, has eight representatives on the MRC.

"Dalhousie, with responsibilities to three provinces, has had no one on the council. It has been difficult to make a case for the Maritimes with no voice."

The MRC accounted for 75 per cent of research support five years ago, but that figure dropped by 1979 to 40 per cent.

Outside the Maritimes, the difference is accounted for by the provincial governments and by voluntary agencies which have their own declared national research goals and which are widely supported by the public.

Dalhousie is handicapped in its research endeavors because none of the three Maritime provincial governments has committed money to the direct support of medical research.

Across the country, 15 of the 16 medical schools have the benefit of provincial support, from British Columbia to Newfoundland. In Canada's newest province, a foresighted government levies two per cent of the cost of well-drilling from oil companies for a research and development fund. Medical research at Memorial University will benefit from that fund.

"Research is important in achieving the right environment for students and to ensure hospitals continue to provide their patients with the best, highly specialized care. That care can only survive with good research," said Dr. Hatcher.

Government failure to support medical research at the provincial level in the Maritimes could damage Dalhousie medical school's future.

"Good people who want to devote their lives to research will go where there is support for research. We see signs of faculty members leaving for richer provinces, and people who we are trying to recruit are going to richer provinces because we cannot compete.

"When rich provinces rob the poor, it's not good for the universities, not for the health service. We have Balkanization of research in Canada. That's a threat to us all.

"People's access to health care with the underpinning of research will no longer be equal. It is, in fact, already unequal.

"Canadian medical research needs a Marshall Plan, just as Europe needed the Marshall Plan to rebuild after World War II."

Dr. Hatcher explained that the more financial strength a province has, the more competitive its medical schools are when seeking federal support through the MRC because their base of well paid research scientists is strong.

"In a university with provincial support, you are laughing all the way to the bank. The University of British Columbia receives about \$3 million from the province. Alberta's two medical schools receive an average of \$15 million each. I know what we're getting—basically zero in direct support.

"Research is big business; 75 per cent of a federal grant is spent on salaries and local goods and services. Our current research budget is about \$4 million. That means \$3 million is returned to the economy of the Maritimes."

The brightest light in the Maritime research scene is the recently established Dalhousie University Faculty of Medicine Research and Development Foundation, headed by Nova Scotia businessman, William M. Sobey of Stellarton.

The foundation's aim is to raise a \$10 million capital fund and to use the interest to support medical research.

"The foundation plays a great role. We owe a great debt of gratitude to a hard-working board of directors," said Dr. Hatcher.

An initial gift of \$500,000 was made by board vice-chairman, Mrs. Arthur Balders. More than \$1.3 million has now been raised, and in spring, the first scholarships will be awarded to three students who propose making their career in medical research.

## Table Clinic Presentation

The annual **Table Clinic** presentation by Dentistry and Dental Hygiene students will take place in the McInnes Room of the Student Union Building, commencing at 7:30 p.m. Feb. 18.

A table clinic presentation is a table-top demonstration of a technique or procedure concerned with some phase of research, diagnosis or treatment related to dentistry.

The purpose of the table clinic program is to stimulate ideas, improve communication and increase the student's involvement in the advancement of his profession. All faculty, staff and students are welcome to attend.

## Alumni award deadline Feb. 15

Nominations for the award of excellence in teaching are still coming in to the Alumni Association office. But there's still time for students, faculty and alumni to submit the name of their nominee for this year's award.

Deadline is Feb. 15. That's when an eight-member selection committee made up of representatives from Senate, the student body and the alumni will begin their task—sorting through the candidates and making a final choice.

Nomination forms are available at the Alumni Office, SUB; the Information Office, Killam Library; and the

poster pads located on boards in all major buildings around campus.

### AWARD OF EXCELLENCE FOR TEACHING

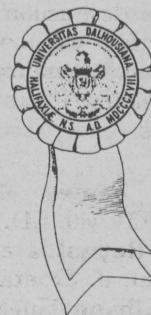
The Alumni Association of Dalhousie University will present an award for teaching excellence to a current full-time professor at Dalhousie who has taught for at least three years at this University.

You are invited to:

1. Nominate a candidate of your choice;
2. Submit four other names of students, or alumni who support your choice;
3. Explain why your nominee should be considered.

Deadline for nominations is February 15th, 1980.

Nomination Notices are available at the Alumni Office, S. U. B.



The renegotiation of an agreement between a multinational mining company and a third world country set the stage for a simulated exercise conducted by students in the MBA program. It was an assignment as part of their class in *The Firm in the International Environment*.

## Multinational company meets Third World government

**The actors:** representatives of Bougainville Copper and officials of the Papua New Guinea government.

**The setting:** a 1967 agreement between the two for exploitation of one of the world's largest copper deposits.

**The issue:** concessions made were so structured as to favour the company at the expense of the government and the people of Papua New Guinea, thus the need by the government to renegotiate the agreement by the mid-70's.



1. Professor Donald Patton (centre) reviews the guidelines for the exercise after which the government (left) and the company team (right) prepare to settle down for hard talks. The government after outlining the need for a new agreement, demands a 50 per cent tax rate and a windfall profit tax from the company—demands which bring about a negative response from the company.

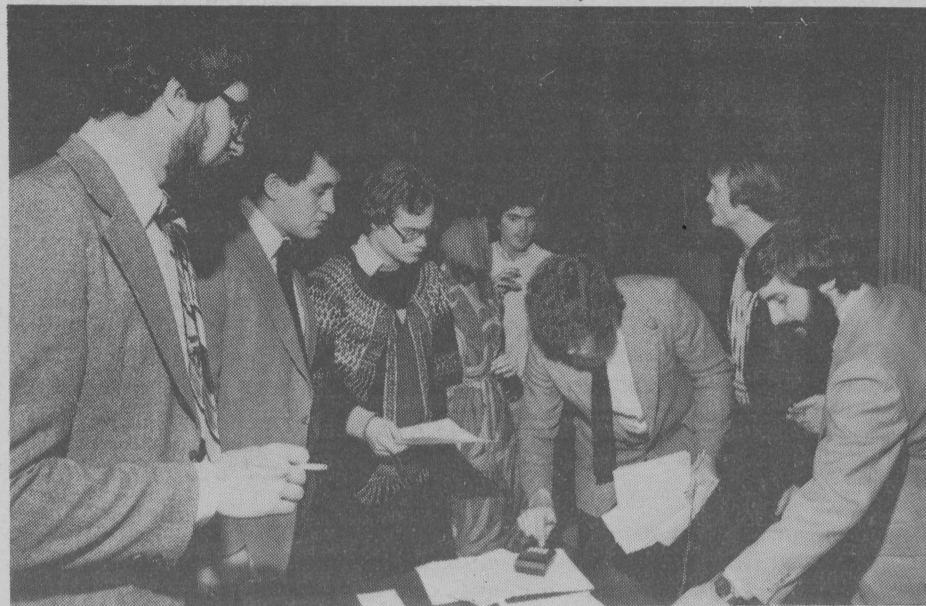


2. Amidst a series of harsh attacks by both sides, interspersed by moments of moderation, confrontation and occasional advisement, sits the New Guinea Goddess of Fertility which symbolizes the ultimate goal—fruitful discussions.

Photography Services photos

## —MBA students simulate negotiations

by Roselle Green



3. A heated exchange ensues when the company accuses the government of being unreasonable, considering that the company is forced to operate in an unstable political environment. Although the government acknowledges the importance of the company's presence in the country, Bougainville Mines must realize that they have also wrought social and economic problems for the citizens.

However, the government, fearing an impasse in the discussions calls a halt to discussions and assembles in caucus to evaluate possible tradeoffs.



4. Company representatives also realize they must be more flexible in their demands. While some are prepared to consider options others fear that everything is being given away.



5. The prime minister (third on the left) returns to the table with his representatives. His first move is the presentation of a banana as a token of the government's goodwill and their desire to be conciliatory. The company, sensing the mood, also prepares to soften its demands.



6. Although the discussions have their share of innuendos, the two sides do reach a settlement and handshakes are in order. The agreement calls for a 50 per cent tax rate with an 18 per cent wind-fall profit tax, a 15 per cent withholding tax, an a 1.25 per cent royalty across the board for copper, gold and silver.

Following the conclusion of discussions, the Prime Minister is quoted as saying . . . "we are relieved that the negotiations are finally over. The government feels the results of the negotiation are beneficial to both."

The representative for the company says that he is pleased with the agreement and feels the company did somewhat better than expected.



7. Professor Patton . . . "This simulation has been designed to highlight areas of tension and harmony between a foreign-owned company and a third world nation. The exercise is meant to demonstrate how business and society do and do not coincide in an international and cross cultural setting.

As a method of learning the rudiments of negotiation, it can prove very productive. The student has an opportunity to see himself in an inter-personal setting and to analyze his effectiveness in dealing with people."

## Business looks at ocean industry

Opportunity knocks when business looks at ocean industry in Atlantic Canada.

That will be the subject under review at a one-day conference sponsored by Dalhousie University's Centre for International Business Studies, on March 7.

The kick-off for the event will be a public lecture entitled Confessions of an Ocean Maverick the preceding evening. The speaker's roster on that occasion will be filled by **Dr. Joseph**

**B. MacInnis**, president, Undersea Research Limited.

The key conference speaker on March 7 will be **J. Alan Beesley**, permanent head, Canadian delegation, Law of the Sea Conference.

The agenda for the meeting will have two major topics—offshore oil and gas, and the fishery.

Resource people scheduled to participate will represent scientific research institutions, private enterprise and the government sector.

## At this Ibsen weekend, you can meet an ambassador, see a play and meet the cast

Learn about the work and influence of the Norwegian playwright Henrik Ibsen, meet an ambassador, take in a play and meet the cast at a reception after the show.

It's part of a weekend package on Feb. 29-March 1, arranged for theatre devotees by Dalhousie University's Office of Part-Time Studies and Extension.

The weekend is designed to coincide with Neptune Theatre's production of Ibsen's *The Master Builder*, which runs until mid-March.

On Friday evening, Feb. 29, **Ronald Bryden**, a distinguished critic, will speak on the subject of Ibsen and the *Sense of the Future*. The special guest at the reception following the lecture will be the Norwegian ambassador.

On Saturday morning, March 1,

**John Neville** and other members of the cast of *The Master Builder* will participate in a panel and audience discussion about the challenges and problems of producing and interpreting Ibsen's plays. That afternoon, **Alan Andrews** of Dalhousie's Theatre Department will discuss "Early English Productions of *The Master Builder* and *Their Impact*".

On Saturday evening participants will attend the Neptune performance as well as an informal reception with the cast afterwards.

All events, with the exception of the Saturday evening performance, will be held in the Dunn Theatre, Dalhousie Arts Centre. The registration fee includes a ticket to the play.

For information call 424-2375.

## It's not too late! (to register)

Get an introductory lecture on a Shakespearean play on Monday evening and then watch a BBC production of the same work on the Maine Public Broadcasting Network the following Wednesday or Sunday.

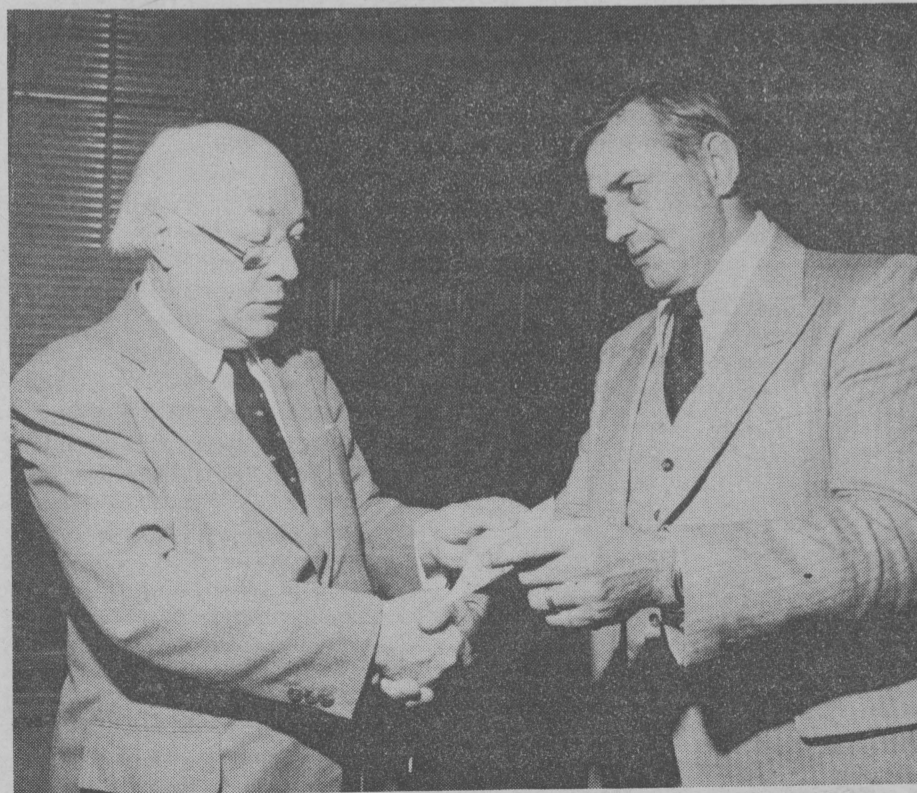
It's all part of a seven-week package arranged by Dalhousie University's Office of Part-Time Studies and Extension in co-operation with the university's theatre department and Neptune Theatre, and scheduled to begin on Feb. 11.

On opening night the spotlight will be on **John Neville**, Neptune's artistic director. He will present a recital program entitled *Sweet Swan of Avon* with the assistance of a Neptune cast.

Sessions will be led by Neville: **Malcolm Black**, artistic director of Theatre New Brunswick, and Dalhousie professors **David Overton**, Department of Theatre and **Bruce Stovel**, Department of English.

The Shakespeare works included in the series are: *Twelfth Night* (Feb. 18), *Richard II* (March 17), *Henry IV, Part I* (March 24), *Henry IV, Part II* (April 7), *Henry V* (April 21), and *The Tempest* (May 5).

The course will be conducted on Mondays, 7-9 p.m., in the MacMechan Auditorium of the Dalhousie Killam Library. For information on registration, and TV broadcast schedule, call 424-2375.

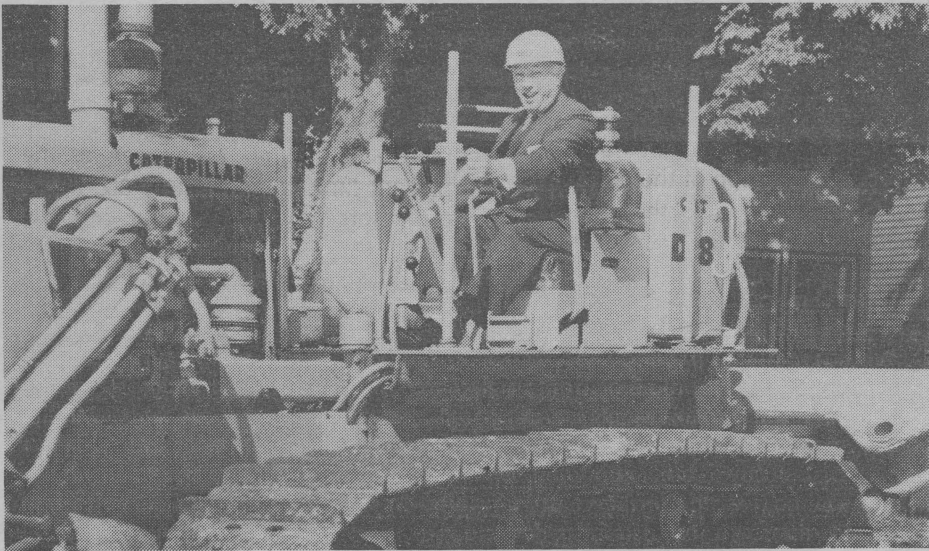


**Ray Mosher** from *Imasco Imperial Tobacco* presents **Dr. Henry D. Hicks** with a cheque, the last installment of the company's \$7,500 donation to the *Dalplex* campaign. *Imperial Tobacco* also donated the newsstands for *University News*, seen in all the major buildings on campus. (Photography Services Photo)

## The Hicks Era, 1960 - 1980

This is the fourth segment of a long interview, conducted with Dr. Hicks last fall, on his two decades at Dalhousie, the last 18 years as president and Vice-Chancellor. Dr. Hicks:

- Talks about the law school's influence on graduates going into public life;
- Reveals how some members of the Board of Governors wanted him to promise to stay out of politics and their change of attitude years later;
- The cost of university education)
- The effect of Nova Scotia's lateness in moving into financial operating support of universities.



Dr. Hicks breaks the ground for the Weldon Law Building, in 1965. "At the law school," he says, "there's always been an attitude of public service . . ."

**Q: It's been said that more Dalhousians are in public life than graduates from any other Canadian university. How do you account for this?**

A: I suppose it goes right to the Dalhousie Law School, where there has always been an attitude of public service and involvement in public affairs since the appointment of our first Dean of Law, **Dean Weldon**, who for a good many years when he was dean of the law school, was a Conservative Member of Parliament as well. This is often forgotten now.

When I came to Dalhousie the atmosphere was quite different. Indeed I remember having to argue with the Board of Governors that we should make it easily possible for members of the university to run in provincial elections. And of the first candidates that we had during my presidency, fortunately none of them was from the Liberal Party, so I could argue objectively without anyone saying that I was arguing for my own party and so on. That has changed so much in those years that now I don't think

members of the university who want to run in election campaigns even seek the permission of their deans. Now we haven't had one who's won yet, and what we would be able to do if he did win an election would be a different matter. I would hope we could give him some kind of leave that would protect his university position and I firmly believe we would.

It might be worth recording my own experience in this respect. It's a little personal but I don't think it's confidential. For the first year that I was here, I was leader of the Liberal Party in Nova Scotia. I kept my political activities to a minimum and I wasn't disturbingly partisan—or at least I hope I wasn't—and then I gave up the leadership of the Liberal Party in the fall of 1961, and when I was offered the presidency of the university in 1963, I was waited upon by a committee of the Board of Governors of the university. I must admit frankly I wanted to be president of the university at that time—I didn't know that I was going to want to be when I came here in Sixty, but after three

## Part 4

by Derek Mann

years I would have been disappointed if I hadn't been offered the presidency. I was.

And then, almost as if it were an afterthought with them, a member of the committee put a letter in front of me and said "We think that perhaps, so that there may be no misunderstanding, that you ought to sign this letter." The letter was an undertaking that so long as I was president of Dalhousie I wouldn't express my opinions on political matters or have any involvement in politics. As I say, I wanted to be president then, but I didn't hesitate a moment. I said "Gentlemen, you've made a mistake. First of all, I think you've made a mistake in offering the presidency of the university to a person who you'd have to tie like this, to bind like this, and secondly you've made a mistake if you think I would ever sign a letter like that. Now, I don't intend to participate actively in politics when I become president of Dalhousie, but if there was an issue I felt so important that I had to speak on it, I wouldn't bind myself not



"Our (financing) system is very Canadian . . . we find ourselves betwixt and between . . . and this, I guess, is part of the Canadian temperament." *Wilkins photo*

Stay out of politics, said

"Gentlemen



"You've made a mistake if you think I would

to be able to do so," and I also referred them to my performance in the three previous years and I said that "I don't think my political activities have embarrassed the university in any way, and I don't think they will in the future."

That was in 1963. When I was offered appointment to the Senate of Canada in 1972, before accepting I asked for a meeting of the executive committee of the Board of Governors of the university, which contained most, if not nearly all, of the members of the committee that had waited upon me in 1963, and I told them that I had been summoned and what was their view—should I accept or not? Without exception, they said "Yes—but do not resign from the university." So in that decade there was a complete change in attitude insofar as the governors of the university were concerned. In the years that I've been in the Senate, I haven't been very political as a Senator—Senators are not as political as members of the House of Commons, of course—but I don't think that my political or Senatorial activities have adversely affected the university.

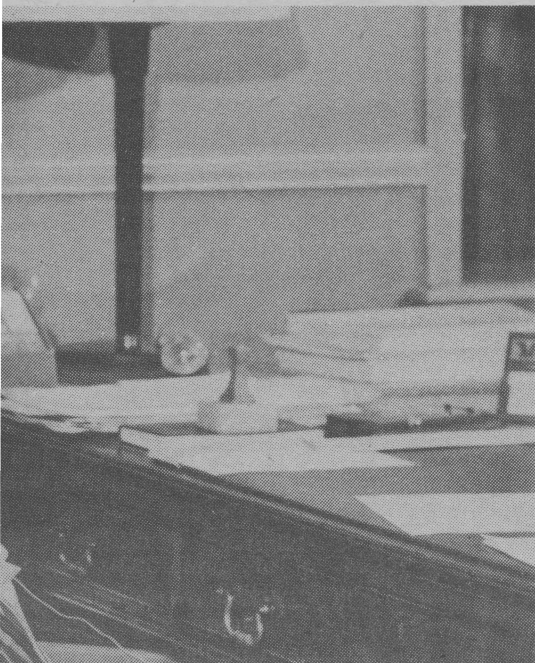
**Q: What prompted the change in the members of the committee who had wanted to keep you away from politics in the beginning?**

A: I would like to think that they saw that my performance in the years between 1963 and 1972 had not adversely affected the university by

February 7, 1980

and some of the Governors

## men, you've made a mistake"



would ever sign a letter like that."  
Wilkins photo

reason of my political or other activities. I think also there has been a change in our society in the last decade or more in attitudes like this . . . I like to think this, and I hope I'm right. I hope that there are more people concerned about the quality of government and politicians and the people who participate in them. If we're going to exclude a large spectrum of society from participating in the self-governing process that we call representative Parliamentary democracy, then we're just not going to be able to deal with our problems effectively enough.



**Q: Isn't it a fact, though, that since provincial governments have come more into the financial picture of universities that a good deal of what a university president says in public is going to be political?**

A: Yes, I suppose that's so; with governments providing from 70 to 85 per cent of our operating revenues and so on, the university president can't avoid involvement with politicians.

**Q: What about university financing? In some American universities which are not supported by their state governments, their students have to pay just about the whole cost of what it takes to educate them. Some other countries' education is almost totally free for those qualified. Canada's system is in-between in that the student pays only a small share of what it costs to educate him or her. Is there a better system?**

A: I don't know. Our system is very Canadian, isn't it? We find ourselves betwixt and between the two extremes, and this, I guess, is part of the Canadian temperament. When **Dr. George Holbrook** was president of the Nova Scotia Technical College, he advocated charging students the full cost of their university education and letting governments provide assistance to students by way of bursaries and scholarships, so that the university would get paid what it actually cost to educate the student. This is an attractive idea in many ways. It couldn't be implemented by any one university or, I don't think, by any one province in Canada. It would have to be done on a nationwide basis and knowing how slowly we move in matters of this kind, especially where constitutional issues are involved in Canada, I don't think it's practical to look forward to it.

The other thing, of course, is do you realize the enormity of the sums you'd be talking about? I had a rough calculation done on the cost of educating a medical student and it's about \$28,000 a year; \$22,000 a year for dental students, and so on. Well, I don't know.

On the other hand, I wouldn't go to the extreme of saying that the state should pay all, either. This is common in the totalitarian countries, of course, and it's common in a good many of the developing countries of the Third World as well, where family incomes would make it virtually impossible to

support any but a very, very small segment of the public—young men and women—in the universities. I think in a society like ours, in Canada, undoubtedly a university education does confer a benefit on an individual.

Only a few years ago the president of the Student Union at this university was arguing with my wife on one occasion, saying that within five years all the fees would be paid by government and university education would be free like the education in the public schools system. I don't think the same young man, or today's president of the Student Union, would anticipate that this is going to happen because, again, the attitudes towards universities and university students have changed.

So I think the present system is fair. I guess I'm typically Canadian in this respect. I think it's fair that we should charge some portion of the cost of the university education to the student. I also think it's important, however, that we have support programs for the students so that this does not preclude attendance at the university by any deserving young man or young woman. By and large I believe that we have such support programs, although I'm sure that students at Dalhousie could think of many examples where real hardships have been encountered because of the cost of attending university. Perhaps a little hardship is to be endured.

**Q: You've often said as well that Nova Scotia lagged behind other provinces in its financial support of higher education. That is, that the Nova Scotia government did not begin to make operating grants until the early Sixties: '61, '62. Why was this, and what sort of effect has that lag had on the development of Nova Scotia universities or Dalhousie?**

A: Obviously it has had some effect. Our building program, even as we envisaged it at the time of our Dalhorizons campaign in the late 1960s, has not been achieved yet because the monies have not been forthcoming in time for us to do all the



"It's remarkable that we've survived as well as we have . . ." Wilkins photo

things that we wanted to do. We have a lot of makeshift arrangements which we don't look upon as permanent solutions to our problems, although they're serving us quite well at the present time. Indeed, there are many professors now who would candidly admit that they'd rather have their offices in houses with windows to look out of, than in the centre of a windowless, air-conditioned building. Some combinations of houses, such as we've done on South Street with the sociology department, are very attractive and will probably serve us for years, if not for decades, to come. But we are lagging behind in that respect.

We're also lagging behind in salaries of our professors because our operating grants, which only relate to 70 per cent of our revenues, have not been increasing in the last three years as rapidly as the cost of living index has been growing.

**Q: You're fighting a losing battle?**

A: Well, it's remarkable that we've survived as well as we have, and of course one of the reasons, again let's be frank about it, is because in the meantime the market has shifted and our professors don't find it quite as easy to move away to more lucrative jobs, because the more lucrative jobs, while they exist, are already filled by other people. But you know, I hate even to say that, because it is a very bad basis on which to retain your good professors in the university.

Next week Dr. Hicks talks about:

- The brief popularity of universities;
- The need for private financial support;
- The need to remain independent.

# Profile

by Cathy Kerr

It all started as a profile assignment on an interesting person—**Stan Watts**, Dalhousie Diving Officer. Then out came all the papers on the scientific diving course, the only one of its kind in Canada, and on Dal's research project in the high arctic. Then I was shown the uni-suits, special outer-space-looking suits that keep you warm even in Arctic temperatures, and the new \$1200 divers' propulsion vehicle.

"This is all very interesting, Mr. Watts," I said.

"Do you dive?" said Stan.

"No," I said.

"Come with us anyway," said Stan. I gulped. It was mid-November.

And so it began . . .

## The Background

Way back, during the first World War, a diving suit was developed by the Egyptians. It was, essentially, a lightweight, waterproof suit, designed to be worn over a diving underwear. Reasonably comfortable in shallow water, the suit compressed against the body at depths exceeding 30 to 40 feet, resulting in "suit squeeze," a condition in which the body ends up looking like a road map. Another more serious problem, clinically described as "reversed ears," often resulted as well when the pressure caused during the descent forced the rubber from around the neck into the outer ear canal. The rubber filled the diver's ear and the eardrums were actually pulled outward.

Around the early 60s came the "wet suit," which was supposed to answer all the cold water problems and prevent the conditions described above. As the name implies, the diver actually gets wet and the body heat is supposed to warm up the small amount of water that reaches the skin. This works well in theory, but the warmth of the suit depends on a great many other factors such as the design of the suit, individual tolerance and water time depth, to name but a few.

During the 70s, the Swedish-designed "uni-suit" became available in Canada. It is a combination of the best features of both the wet and the earlier dry suit.



Dalhousie scientists have been involved in diving projects and have been conducting year-round studies for the past seven years. One example is the marine plant study being carried out in the Arctic, in which a research team visits the site every six weeks, diving under five to six feet of ice.

## Dalhousie's Scientific Diving Course

or

## The guy who asked me to go scuba diving — without a tank!

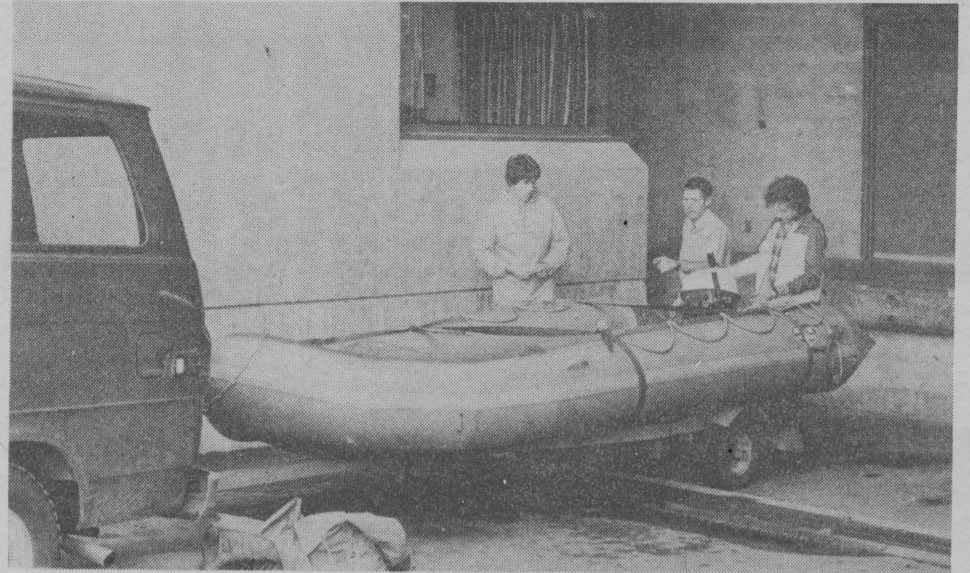
The Biology department at Dalhousie uses uni-suits for arctic and winter diving operations. All of the diving and associated tasks are completed from an open boat, therefore the warmest equipment available on today's market is required.

Until recently, marine studies were conducted by instrumentation remotely controlled from the surface. It was discovered that direct observation is required however, only to be accomplished by divers. Proper equipment and adequate training became a necessity.

Sports diving courses have been available for some time, but they do not often provide sufficient training for a student to adequately organize his own research program. Commercial courses, though, usually seven months long, are also not satisfactory.

On completion of the scientific diving course, developed at Dalhousie, a student will be able to organize and supervise a scientific diving program. During the two years of theoretical and practical experience, the student progresses in his academic and diving studies concurrently.

Directing the course is diving officer Stan Watts, a diving professional since 1955. His qualifications are impressive. He was trained as naval clearance



Barry Sinervo, Stan Watts and Tim Craft prepare the university boat for towing and later, the dive.

"This is the university diving boat!? It looks like a rubber dinghy to me," I exclaimed in a panic when I first saw it. "Perfectly safe" Stan assured me. "The best boat available for our purposes, in fact." (St. Onge photo)

diver with the fleet diving unit, and has served with the RCN and the CAF as a diving specialist for 20 years. He is still a diving officer for H.M.C.S. Scotian, the naval reserve division.

As well, Watts represents scientific diving in the Canadian Standards Association, which is presently involved with assembling the standards for safety and training procedures.

Watts' work here at Dal is 60 to 70 per cent "in field," which means he dives about three times a week, through snow, rain, sleet, or what have you. He supervises the diving and research programs at Dal and also does all the specimen-collecting for teaching and research in the university. Students and professors give him a list of required specimens in July, and Stan decides when and where to hunt them down.

Basically, his day would go something like this:

**A.M.:** He drives to St. Margaret's Bay, in the university's rented van, one of the Dalhousie driving boats in tow, and dives with students from the scientific diving course.

**P.M.:** Students depart. Stan eats lunch, and is then met by a research team of professors and post-graduates. He usually dives with a three-man team. If they happen to be in an area where required specimens are plentiful, out goes the net, and in comes another month's supply.

Stan thinks great things are possible at Dal.

"We need people to develop interest," he says. "We have here the expertise and facilities to develop a program."

At the University of Victoria, they developed the P.F.D. (Personal Floation Device) or floater, designed to

decrease chances of hypothermia, "and with not nearly the facilities of Dal," says Stan.

There is a great deal of enthusiasm about the scientific diving program, not only from Stan, but among the students as well. The program emphasizes diving and marine safety. Basic seamanship and boat safety is taught by actually operating and maintaining the university boats.

It is not a credit course. A two-part certificate in scientific diving will be issued to successful students, and it is hoped that this certificate will be recognized by the Canadian Standards Association.

The program is limited to eight students. Applicants must be qualified Scuba divers and must have a medical examination before starting the course, since diving, of course, makes considerable demands on a person.

Demands? you ask. Why, what's so demanding about being at the bottom of Halifax Harbour in the middle of February with 120 pounds on your back—swimming? Really. . . .!



The Uni-suit is 1/4-inch foam neoprene nylon-packed on both sides, making the suit completely dry inside. An inlet and exhaust valve attached to it allows the diver to control his own buoyancy. The diver may also keep a layer of air in the suit, thus preventing "suit squeeze."





## SCIENCE IN THE 80's: WHERE DO YOU FIT?

That's the theme of a briefing and talk session for undergraduate and graduate students to be held at 5 p.m. on Feb. 15 in Room 117 of the Sir James Dunn Science Building.

The meeting, designed to provide information on Canadian research needs in this decade and to outline funding sources available in support of students, has been arranged by the Faculty of Graduate Studies and the Information Office in co-operation with the university's science departments.

On deck for the meeting will be **Gilles Julien**, executive director of the Natural Sciences and Engineering Research Council (NSERC), university

faculty and representatives from the public and private sector. Mr. Julien will explain the NSERC's funding policy which has been developed as one means of overcoming shortages of highly qualified research manpower predicted for the next five years.

Much of the funding will go towards scholarship and fellowship programs at the pre and post master's level, the doctoral and post-doctoral level. In addition, the council will provide 1,000 summer scholarships. The awards at all levels are tenable in either industry or university and range in varied lengths of tenure.

## Engineering-physics gets new head

**Dr. Hugh William Jones** has been appointed professor and director of the engineering-physics section of the university's Department of Physics.

He has BSc degrees in mathematics and physics and a PhD in electrical engineering, all from London University.

He held teaching and research posts in the U.K. and U.S. before being appointed professor of physics and adjunct professor of engineering at the University of Calgary in 1967. While at Calgary he was also chairman of the university acoustics group in the department of physics.

Before joining Dalhousie last month Dr. Jones was head of the department of electrical engineering and physical electronics at Newcastle-upon-Tyne Polytechnic in England.

His research interests are varied. He has done work in acoustical imaging and holography, architectural and environmental acoustics, in addition to research in the development of receivers for faster ultrasonic scanning.



**Dr. Jones**

At Dalhousie he hopes to organize a comprehensive research group with others working in the same field. He will also examine the feasibility of developing in conjunction with others, academic programs that will be useful in an applied way to this region.

## Special course for volunteers

A nine-week course aimed at providing prospective and practicing volunteer workers with some practical approaches for dealing with problems they encounter on the job will get underway at Dalhousie on Feb. 12.

The sessions are designed for persons engaged in volunteer activities through their church, charitable organization or social service agency.

Arranged under the auspices of the Volunteer Bureau Help Line, it has support from the Secretary of State

and is being conducted in co-operation with Dalhousie's School of Social Work and the Office of Part-Time Studies and Extension.

Learning to work with children, volunteer work with the handicapped, human relations, and volunteer job satisfaction are a few of the topics on the course agenda.

Resource leaders have been drawn from government, university and professionals in the field.

## Top drug expert Dal visitor

**Dr. E.J. Ariëns**, one of the world's leading scientists in the fields of drug design, drug metabolism and drug toxicity, will be a Medical Research Council of Canada Visiting Professor to the College of Pharmacy, Dalhousie.

Dr. Ariëns, who is Professor and Director of the Department of Pharmacology, University of Nijmegen, The Netherlands, will deliver a number of lectures at Dalhousie between Feb. 11 and 14. All those interested are invited to attend.

Prof. Ariëns is the author of numerous journal articles and a number of books. The 1978 edition of his text on general toxicology has been translated from the Dutch into five other languages. He is the editor of a continuing series of books entitled, "Drug Design", of which the eighth volume was published in 1979. Prof. Ariëns sits on the editorial boards of one dozen international journals. Among the many awards and honors bestowed on Prof. Ariëns, are three honorary degrees.

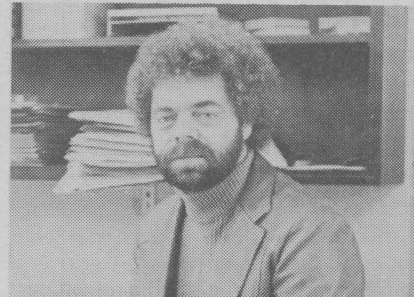
Financial assistance to bring Prof. Ariëns to Dalhousie has been provided by the Medical Research Council of Canada, the Dalhousie Faculty of Graduate Studies, and the Eli Lilly and Company (Canada) Limited.

## Anatomy adds Nance to faculty

**Dr. Dwight Nance**, formerly at UCLA and recently at the University of Southern Florida in Tampa, has taken up an appointment as associate professor of anatomy at Dalhousie.

His research specialty is psychoneuro-endocrinology. In describing his work, Nance explains that his studies are directed at the morphological, hormonal and biochemical basis of sex differences in the neural control of behaviour.

To do this he employs a specific type of model system. It involves



**Dr. Nance**

localized implants of sex steroids directly into various brain areas of neonatal rats. These implants make it possible to identify designated regions where hormones act to organize sex-specific functions.

In addition to his research he will be teaching gross anatomy and will have assignments in the department's graduate program.



## ISSUES IN SCIENCE

Co-sponsored with the "Science Focus Working Committee"

A look at fetal alcohol syndrome, new chemicals in the treatment of cancer, telecommunications, future inheritance—choice or chance, are some of the topics to be under review when the Halifax City Regional Library inaugurates its **Issues in Science** lecture series on Feb. 15.

The nine-part series, which will focus on local scientific research and topics that affect our everyday lives, are scheduled for 12-1 p.m., each Friday, at the library on Spring Garden Road.

Invited speakers are drawn from scientific institutions in the Halifax-Dartmouth area.

The schedule of talks and dates are: Here's to Baby—A look at the Fetal Alcohol Syndrome, Feb. 15;

Traditional and New Chemicals in the Treatment of Cancer, Feb. 22;

Future Inheritance—Choice or Chance, Feb. 29;

Telecommunications—Past, Present and Future, March 7;

Radio Activity: Is It All Bad, March 14;

Research Response to Ecological Emergencies, March 21;

The Mussel Watch: Monitoring the Health of Our Oceans, March 28.

## Surgery sponsors students

Four students who did research electives last summer in the department of surgery, Faculty of Medicine, had an expenses-paid trip to Vancouver this month and presented papers at a national meeting of The Canadian Academy of Sport Medicine.

They were **Kathy Bell-Irving**, **John Kirkpatrick** and **Howard F. Lamb**, medical students, and **Gordon Valiant**, a research fellow with **Dr. W.D. Stanish**, orthopedic surgeon.

The four were among 15 students sponsored by the department of surgery to the extent of \$2,000 each for the summer elective period.

During 1980, the department of surgery will extend its research program for students and a "Surgical Forum Day" is planned at which the students will present their papers. Prizes will be awarded.

According to **Dr. G.W. Bethune**, head of the department of surgery, the 1979 program was successful and judged worthwhile by both students and the preceptors involved.

# Sport Review

by Joel Jacobson

## Track and field team takes AUAA title; women stay on top

The honors continue to accumulate for the Dalhousie Tigers' teams as the season wends its way to conclusion. Another AUAA title was gained as the track and field team took top place at Moncton.

The women's basketball team strengthened its hold on first place as did the women's volleyball squad. The men's volleyball club retained a solid grasp of second. The hockey Tigers split a pair of games with St. F.X. and hold second place in the league. The men's basketball squad dropped games to St. F.X. and UPEI, while the men gymnasts competed at UNB.

### Track and field teams dominate

The Tigers took the first major indoor championship ever held in AUAA track and field with a thrilling last event win in men's competition and a somewhat easier first place finish in women's.

**Wendy Toussaint** led the women's team with two firsts and two seconds plus a strong relay performance. She won the 50 metres and long jump and took second in high jump and 200 metres. **Al Yarr**, coach of the team, was very pleased with the performance of the freshman from Lower Sackville. "She is an excellent athlete, very versatile and should be a national athlete if she keeps at it. She would be a wonderful pentathlete."

**Pam Currie** won the 1500-metre and 3000-metre runs, qualifying in the latter event for the National Senior Indoor championships.

**Tom Stanley** keyed the men's victory with a 50-metre win and a solid anchoring performance in the relay. Entering the relay, three teams were tied for first with 26 points and another had 23. Moncton won

the relay, the resulting five points and had 28. Dalhousie's second place relay finish gave the Tigers three points and a total of 29 for the meet title.

### Swimmers churn to victory

**Susan Mason** produced her best swimming of the season to lead the Tigers to their seventh straight dual meet title of the year. Mason registered two top Canadian College times of the season with a 9:03.8 in the 800 free and 2:25.2 in the 200 fly.

**Louise Deveau** and **Krista Daley** recorded personal bests in winning the 100 and 200 free and 50 and 400 free respectively. **Janie Flynn** also recorded double victories. The most improved performance was by **Kathy MacDonald** who dropped over 30 seconds off her previous best in the 800 free.

**Arthur Rennie**, **Brian Jessop** and **David Sweett** all scored double wins in men's competition. Rennie collected two CIAU qualifying times while Sweett recorded season bests in the 200 IM and 200 breast. **Ron Stegen** also qualified for the CIAU's.

The next big challenge for the Tigers is the AUAA title meet at UNB Feb. 15-17. The Tigers are defending men's champions and hope to unseat Acadia as women's titleholders.

The divers also performed well on the weekend against Mount Allison and Memorial. **Marcel Arsenault** won the one and three metre boards while **Tracy Willar** qualified for the CIAU's with a win in the one metre board.

### Memorial is the target

The women's volleyball team heads for St. John's this weekend hoping to come back with first place cinched in the AUAA

volleyball women's section. Last weekend, they increased their record to 9-0 in conference play with a 15-8, 15-3, 15-4 sweep of St. F.X. at Dalplex. **Karen** and **Beth Fraser** and **Kathy Andrea** were outstanding for the Tigers.

### Moncton the next goal

The men volleyballers, meanwhile, have to wait a week before meeting Moncton at Dalplex in what should be a battle for first place in the AUAA Conference.

Last Saturday, the Tigers humbled St. F.X. 15-2, 15-5, 15-4 to increase their second place record to 8-2. After a game at Acadia on February 13, the Tigers will host Moncton at Dalplex as part of a double bill with the women's teams.

**Sandy MacLean** and **Jean Comeau** worked well together as coach **Al Scott** tried to focus on a quick attack system. Last year's MVP, MacLean, according to coach Scott, "is showing confidence and team leadership."

### Hockey Tigers hold second

The hockey Tigers continue to play spottily and last week split a pair of games with St. F.X. The Wednesday night win at home 5-2 was one of the better games played this season, according to coach **Pierre Page** but Saturday night, a close 3-3 game turned into a third period nightmare as the Xaverians took a 7-3 win.

Page is alarmed about the cheap and seemingly unnecessary penalties his club is taking. "We are retaliating and getting caught," he said, "and we have to become more disciplined. We're in second place now (two points back of SMU as of Feb. 4) but still want the top spot. We can't get it if we take silly penalties."

### Basketball women retain first

The women Tigers continue to be first in the AUAA women's section and could clinch top spot and the hosting of the AUAA playoffs with a win over UNB this weekend. They play a pair in Fredericton.

Two wins last week were recorded over St. F.X. (60-33) as **Carol Rosenthal** scored 18 and over UNB (65-45) with **Jill Tasket** leading the way with 21.

The Tigers are now undefeated in 11 games and have a four point edge on the Red Bloomers with five games left.

### Basketball men stumble

The Tigers took a pair of losses last week as their record dropped to 2-9. In Tuesday's loss to St. F.X. the Tigers held their own for a half until the Xaverians started to roll and ran off with a 99-73 win. Saturday in Charlottetown, the Tigers lost 96-74 with **Phil Howlett** leading the way with 19 points and **Steve Lambert**, hampered by early foul trouble, ended with 13. Lambert had paced the Tigers against X with 22 points while Howlett contributed 18.

### Steve Banks leads gymnasts

**Steve Banks** won the men's individual title at a gymnastics meet at Fredericton as he topped all comers from UNB and Moncton. Banks won the individual title with firsts in side horse, vault, and parallel bars. **Ted Brereton** finished third in parallels for Dal.

## Dalplex

### RECREATIONAL SWIMMING SCHEDULE January - April 1980

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
7:15 a.m.	middle and deep	closed for physical education classes	middle and deep	closed for physical education classes	middle and deep		
9:00 - 9:30 a.m.	closed for cleaning		closed for cleaning		closed for cleaning	closed for classes and clubs	closed for classes and clubs
11:00 a.m.		whole pool	whole pool	whole pool	whole pool		
1:00 p.m.	whole pool					deep and middle	1:00 p.m.
3:00 p.m.		middle and deep				Public Swim Whole Pool	Public Swim Whole Pool
5:00 p.m.	middle section				middle section		4:30 p.m.
6:30 p.m.	CLOSED FOR CLUBS, VARSITY, AND CLASSES						
8:30 p.m. - 10:00 - 10:30 p.m.	whole pool	whole pool	whole pool	whole pool	Public Swim		

NOTE: The above schedule indicates pool sections available for recreational swimming.

# Swimmers on top of the world

by Joel Jacobson

Dalhousie Tigers teams have had marked success this season. During the fall, the women won the AUAA field hockey championship while the tennis teams (men's and women's) won their umpteenth successive AUAA titles.

This winter, the volleyball teams have shown remarkable strength; the women's basketball team should win the AUAA title; the track and field teams won the AUAA championship; the swimmers have raced to new standards; the hockey Tigers have battled for league honors all year; and the men's basketball team has struggled in the always tough AUAA. Gymnastics and wrestling Tigers have yet to compete in AUAA championships tournaments, yet have shown promise in their exhibition outings.

Let's take a closer look at a team that is on top of the world as it enters the final stages of its season and one that now can just play out the string and hope for better things in 1980-81.

**Swimming:** Coach **Nigel Kemp's** swimmers might be waterlogged before their season ends with the CIAU championships in March because they are getting much more practice time than ever before.

"As a team, we have worked much harder this season because we have our own facility. We workout 1-1/2 hours in the morning and two hours in the evening five days a week, with swimmers compelled to attend five practices of the 10 per week. Last year, we swam at Centennial Pool for only 1-1/2 hours a day. Some swimmers received extra time early in the morning but the norm was the one practice per day. Our own pool has made a tremendous difference in the times we have achieved."

The Tigers have won several dual meets this year, including a couple by the women over arch-rivals Acadia. "This is the first time in my nine years at Dal," said Kemp, "that the women have been undefeated. They are swimming with much more intensity. The men were undefeated last year and kept the string alive this season."

So far three men have qualified for the CIAU championships as well as one diver.

Five women have qualified along with one diver. "Last season we had a total of 12 swimmers and two divers but I fully expect more of our current team to qualify at the AUAA's Feb. 16 meet at UNB," said Kemp.

"The standards are extremely tough this year. Our men haven't broken a single Dalhousie or AUAA record this season because every Dal standard is also an AUAA one. However, our men should win the AUAA title again, while the women will have a real battle with Acadia. On the women's team, we have good strength in all events except maybe the back stroke. Acadia has excellent depth."

Asked if any Dalhousie swimmers might represent Canada on the Olympic team, Kemp said: "**Susan Mason** and **Brian Jessop** have qualified for the Olympic trials through earlier times over a long course. Many Canadian Olympic swimmers have taken the year off from school to train and swim with their club teams. They have made their commitment. **Derek Snelling**, coach of the Olympic team, has built a stable of about 40 swimmers who have worked with him all winter. Other coaches feel their swimmers have to work their minds and bodies together. Mason, for example, is carrying a full course load at Dalhousie while training hard for the Tigers and for her swimming future."

Kemp rubbed his hands with glee when he said: "The Canadian Amateur Swimming Association is making every attempt to upgrade Canadian college swimming by establishing improvement as a priority." In past, Kemp pointed out, Canadian swimmers went south for their education and training. Today, more and more are staying home because the facilities are now here as is the coaching. The CASA is trying to provide competition through funding.

This raised the recruiting question as college coaches in Canada battled for the best swimmers. "Ontario and Québec have provincial funding schemes that assist the swimmers who remain in their native province. There is competition among Maritime coaches for the best swimmers in this area. Fortunately we have the Dalplex which is an attraction for good swimmers," said Kemp. He modestly omitted saying that Dalhousie also has the coaching to attract good competitors.

Kemp wants to improve the program even more by attracting good competition to the university. "There are several outstanding college swim teams outside the Maritimes. Laval is very strong, there are good teams in Ontario and New England could provide excellent competition. I want to develop our schedule more—to travel away and to bring better teams here."

"We've drawn more spectator interest at Dalplex than we ever did at Centennial. As people know more about the program, they will come out to see our team. That can only help our overall program," concluded Kemp.

The swimmers and divers (under **Marg McGregor**) have had a marked record of success so far. Next weekend should indicate how far the team can go at the Nationals. If time invested were a criterion, the dividends should be plentiful.

**Men's Basketball:** At the other end of the spectrum, coach **Doc Ryan** and his basketball Tigers carry a 2-9 record into the final weeks of play in the AUAA. Most students of AUAA basketball expected the

Tigers to finish in the bottom half of the league, with a faint expectation of a playoff berth.

"When I arrived in early August, my goal was a playoff spot," said Ryan, after Saturday's 96-74 setback at UPEI. "Today, I hope we can cause some discomfort to the other clubs in the league by doing a little upsetting." The Tigers have seven games left, two each with Acadia and Saint Mary's and one each with St. FX, UNB and Mount Allison. One more win will mean three AUAA victories and five overall during the season, an improvement by one over last year's record.

"It has been a mixed-up season," said Ryan. "I expected more from certain players but received excellent efforts from others. It has been a difficult coaching year. Our talent hasn't been equal to that of the top three clubs. We have played well for certain periods of games but then run into problems. We have to hide areas where we are deficient by switching defences or by keeping the other teams off balance in other ways. When they make their adjustments, their better talent and extensive experience enables them to take it to us."

Ryan hopes to return to the Tigers in 1980-81. He has made some contacts for players for next season but realized they will need help to come to Dalhousie. "There is no question strong recruiting goes on in this conference. I won't say players are directly assisted to attend other schools but if I could offer some kids jobs on campus or assistance with tuition and expenses, I could find some good ball players who would also be excellent students. I am working on the problem and feel, if it can be solved, we can be as competitive as other teams in the league."

"The Dalplex is certainly a drawing card and players realize they will get a chance to play on this team."

Ryan came to Dal from a winning program at St. FX and has not been used to losing. Several of the players also came from winning traditions. "It gets the guys down to lose much of the time yet they haven't quit. They will play as hard when

down 20 points as they do in the first two minutes or the first half.

"I have enjoyed coaching and seeing the efforts the kids put out. I just feel so badly that I can do everything for them but put the ball in the hoop. We work hard in practice, they pay attention because they want to learn and they are trying very hard. The other teams generally beat us by experience."

Doc Ryan's enthusiasm hasn't waned. Given a bit of time, and a bit more talent, he should be able to bring the Tigers into the winning tradition that basketball held in the late 60s and early 70s and that has been established by so many other varsity sports this year.

## Athletes of The Week

### WENDY TOUSSAINT:

The freshman from Lower Sackville had a marvelous weekend at the AUAA Indoor Track and Field championships in Moncton winning two events and taking second in two others. She also anchored the relay team as Dalhousie won the title. Toussaint took first place in the 50 metres and long jump and won second place honors in the 200 metres and high jump.

### ARTHUR RENNIE:

Was one of several Dal swimmers to record two firsts in the dual meet against Mount Allison and Memorial but the first-year student from Dartmouth also qualified for two CIAU championship events with his times in the 100-metre and 200-metre freestyles. Arthur is a former member of Nova Scotia's Canada Games Team (1977) and was a member of Dartmouth Crusaders.

## Athletic Schedule

### Basketball (women's)

Fri. Feb. 8—Dal at U.N.B.—6 p.m.  
Sat. Feb. 9—Dal at U.N.B.—1 p.m.  
Thurs. Feb. 14—Dal at Acadia—7 p.m.

### Basketball (men's)

Sat. Feb. 9—Dal at U.N.B.—3 p.m.  
Sun. Feb. 10—Dal at Mt. A.—2:30 p.m.  
Thurs. Feb. 14—Dal at Acadia—9 p.m.

### Hockey

Sat. Feb. 9—U.N.B. at Dal—8 p.m. (Forum)  
Sun. Feb. 10—St. Thomas at Dal—2 p.m. (Forum)  
Wed. Feb. 13—Dal at SMU—7:30 p.m.

### Volleyball (women's)

Sat. Feb. 9—Dal at MUN—7 p.m.  
Sun. Feb. 10—Dal at MUN—12 p.m.

### Volleyball (men's)

Wed. Feb. 13—Dal at Acadia—7 p.m.

## The "Wolf in Academe" lectures tonight

**Warren Tallman**, who teaches English and creative writing at the University of British Columbia, is not an ordinary critic and poet. As Jack Kerouac might have said of Tallman, he never yawns or says a commonplace thing, but burns like a fabulous yellow roman candle across the skies of academe.

His legion of friends and enemies view him as the wolf in the academy, a title that is certainly related to that of his famous essay "**Wolf in the Snow**", one of the most significant critiques of Canadian literature ever written. He has recently published a perceptive and challenging book of essays on North American Literature, **The Godawful Streets of Man**, a title which itself suggests Tallman's perception of literature as not confined to or by the hallowed halls of ivy.

Warren Tallman has been at the centre of many poetry events in both

Canada and the United States. As teacher and poetic entrepreneur at UBC he has been a major force in the development of a rich and productive school of poetry and has been a major influence on many younger Canadian writers.

Through his personal contact with the San Francisco poetry scene and the Black Mountain poets, Tallman has introduced many Canadian writers to the works and performances of Allen Ginsburg, Charles Olson, Robert Duncan, Gary Snyder, and Robert Creeley.

Tallman will give a lecture entitled "The Romantic Self in Poetry" at Dalhousie University tonight at 8:30 p.m. in Room 401 of the Arts Centre. He will read his own poetry tomorrow at 3:30 p.m. in the English Department lounge at 1434 Henry Street. The public is invited to both events, along with faculty and students.

UNIVERSITY NEWS is published by the Information Office at Dalhousie University every week between September and May, with the exception of a break at Christmas.

Final deadline for inclusion of items in the paper is noon the Friday preceding Thursday publication.

The staff includes: Derek Mann, Editor-in-Chief, Gina Wilkins, Editor; with the assistance of Cathu Kerr, Roselle Green, Pam McWhinnie,

Doreen St. Onge, Marge Veitch, Barbara Hinds, Dalhousie Graphics and Dalhousie Photography Services.

Inquiries and contributions should be sent to The Editor, University News, Information Office, Killam Library, Dalhousie University, Halifax, N.S., B3H 4H8. Tel: 902-424-2517. Registered as third class mail: permit number, Dartmouth, N.S. 59.

# 12—Behind The News

February 7, 1980

## Calendar

### Thursday, Feb. 7

**English lecture.** 8:30 p.m. Rm 401, Arts Centre. Warren Tallman, University of British Columbia, "The Romantic Self in Poetry."

### Friday, Feb. 8

**CME.** Update for specialists in obstetrics and gynecology. Tupper Bldg.

**History seminar.** 4 p.m. Seminar Room, 1411 Seymour St. Bryan Palmer, McGill University, "Edward Thompson and the making of the English working class."

**English lecture.** 3:30 p.m. Lounge, 1434 Henry St. Warren Tallman, Univ. of B.C. will read his own poetry.

**Dance.** Dancers from the Halifax Dance Co-op will explore the spatial definitions created by the sculpture by Louis Stokes. 7:30 p.m. Art Gallery.

**History lecture.** 10 a.m. MacMechan Aud., Killam Library. Bryan Palmer, "Class and culture in nineteenth-century Canada: Cleavage, Antagonism and Struggle."

**Friday-at-Four.** Theatre A, Tupper Bldg. Dalhousie Research Presentation. Dr. B. Issekutz, physiology & biophysics, "Diabetes and Exercise."

**Psychology seminar.** 3:30 p.m. Room 4258, LSC. Jim Love, physiology department, "Behavioural problems in the primate colony."

**Arts Centre.** 8:30 p.m. Carlton Show Band.

### Sunday, Feb. 10

**Dance performance.** 1:30 p.m. The Halifax Dance Co-op will perform in the gallery with the new sculpture by Louis Stokes.

**Dal Film Theatre.** 8 p.m. Rebecca Cohn Aud., Arts Centre. Aguirre, The Wrath of God. German with English subtitles.

### Monday, Feb. 11

**Theatre department and Neptune Theatre.** 7 p.m. MacMechan Aud., Killam Library. Seven-part series to provide an introduction to Shakespeare's plays to be shown on MPBN. Tonight—recital—"Sweet Swan of Avon".

### Tuesday, Feb. 12

**Geology seminar.** 11:30 a.m. Room 101, Dunn Bldg. Philip Hill, "Changes in sedimentary regimes on the Scotian Slope since glacial times."

**Oceanography seminar.** 3:30 p.m. Room 2970, LSC. Dr. George Needler, Director, AOL, BIO, "Modeling low level radioactivity in the oceans."

**Chemistry seminar.** 11:30 a.m. Room 215, Chem. Bldg. Dr. C.A. Fyfe, Guelph-Waterloo Centre for graduate work in Chem., "The dynamic structures of molecular solids."

**Art Gallery.** 7:30 p.m. Guided visit of the exhibition Louis Stokes: Alchemy Spirals.

### Wednesday, Feb. 13

**Films on Architecture.** 7:30 p.m., Art Gallery. "Spirit of the Age: A New Heaven, A New Earth."

**AMC seminar.** Critical skills for the effective manager—the five Cs. Seminar leader, R. Stuart-Kotze. Holiday Inn, Halifax.

**United Church at Dalhousie symposium.** "The Crisis of the University" with James Gray and Bill White. For information call Tom Sinclair-Faulkner, 3579.

**Biological-Oceanography seminar.** 4 p.m. Room 4660, LSC. Don Douglas, "Microheterotrophic coupling with autotrophic production in the euphotic zone."

**International Business & Ocean Studies seminar.** 7 p.m. Room 4208, LSC. Offshore Petroleum: The On-shore Impact of North Sea Oil with guest speaker Dr. L. Kasdan, sociology & anthropology.

### Thursday, Feb. 14

**Biology seminar.** 11:30 p.m. Room 2970, LSC. Dr. A. Bal, Memorial University, "Cell Biology of Rhizobium—legume Association."

**Caribanza variety folk concert.** 7:30 p.m. McInnes Room, SUB. Features folk singers, costume parade, calypso band. Tickets: \$3.50 and \$2.50 with student ID; available from the SUB Lobby Feb 11-14; Red Herring Book Store or from 423-7063.

**African Studies seminar.** 4:30 p.m. 1444 Seymour St. A. Kanduzi, "Zambia National Union of Teachers and the State."

**Public Administration lecture.** 8 p.m. MacMechan Aud., Killam Library. "The Future of Government" with Michael Pitfield.

**Art Gallery.** 11 a.m. Guided visit of the exhibition by Louis Stokes.

**Films on Architecture.** 12 noon, MacAloney Room (406), Arts Centre. "Europa Nostra."

**Cultural Activities.** 8:30 p.m. Arts Centre. Los Indios Tabajaras.

## CARIBANZA '80 to aid Dominican victims

CARIBANZA, the highly successful Caribbean cultural exposition of past years, is to be staged again on Feb. 14 and 15. Caribanza has always provided top quality entertainment and unique exposure to the cultural experience of the Caribbean.

This year will be no exception. The organizers have assembled a variety of musical, dramatic and artistic talent guaranteed to provide patrons with an ambience that is uniquely Caribbean—largely to benefit victims of last summer's hurricane disaster in Dominica.

Caribanza 1980 has been extended to two days from the usual one.

The Carimuda Folk Singers have emerged out of the Caribbean Students Associations' program of cultural development. This group will be one of the main

## Notices

**Out-of-Town Directories**  
As of January, requests for out-of-town directories must be made in writing to the University Telephone Coordinator, **Pauline Dempsey**. For billing purposes, an account number must be supplied. All inquiries should be directed to Pauline Dempsey at 424-2246.

## Feb. 18 Polling Day

In accordance with the requirements of the Elections Act (Canada), staff whose regular working hours do not allow for four consecutive hours while the polls are open for the purpose of casting their votes shall be given additional time to provide for those four consecutive hours, Vice-President MacKay has announced.

On Feb. 18, the polls are open from 9 a.m. to 8 p.m. For most staff working during regular daytime hours, it may prove most convenient if they are able to leave at 4 p.m., says the Vice-President.

## Executive Secretary Workshop

A three-day seminar to develop key managerial skills required of the executive secretary, will be held at the Holiday Inn Feb. 18-20.

It is sponsored by the Advanced Management Centre of the Institute of Public Affairs at Dalhousie.

The seminar is for secretaries with several year's experience who have attained a position of responsibility, such as executive secretary or administrative assistant.

Participants will work in small teams to discuss, experiment with and apply the workshop concepts to "real life" case situations.

Topics for workshop discussion include communication, problem solving, job definition and time management.

Registration forms may be obtained by writing or phoning the Advanced Management Centre.

## People

Professor **Jim Hoyle**, head of the undergraduate physical education division, has been appointed manager of the Canadian Canoe-Kayak White-Water Team. The two-year appointment involves sending the National Team to Europe this summer and to the World Championships in 1981, which are to be held in Wales.

**Dr. David F. Grey** has been appointed Director of Computing Services at Mount St. Vincent University, effective Feb. 4, 1980. He will also teach part-time in the Mount's Mathematics department.

Dr. Grey graduated from the University of Toronto and received a Masters and Doctorate degrees in Applied Mathematics from Dalhousie. He has several years experience in computer programming, in addition to working as a research scientist with Dalhousie and with the Department of Fisheries and Oceans.

Professor **Doreen Fraser** of the School of Library Service, has been elected to a Fellowship in the Medical Library Association, the 1979-80 directory of which lists only 32 other people in this category.

The association is a professional organization of approximately 5,000 individuals and institutions in the health sciences library field. Founded in 1898 and incorporated in 1934, its major purpose is to foster medical and allied scientific libraries, to promote the educational and professional growth of health science librarians, and to exchange medical literature among the members.

Through its programs and publications, MLA encourages professional development of its membership, whose foremost concern is for the dissemination of health sciences information for those in research, education and patient care.

## Attention 1980 Graduates!

Deadline for receiving graduate photos is Feb. 15. It's now or never . . .

features of Caribanza.

The Caribanza folk variety concert to be held on Thursday, Feb. 14 at 7:30 p.m. in the McInnes Room of the SUB, is being billed as "The Family Event of the Year." It will feature the greatest variety of Caribbean talent that has ever been available in Metro—folksingers, dramatists, dancers, calypsonians, instrumentalists and costume paraders. Caribanza Jump-up, the more traditional event, will be held on Friday, Feb. 15, 9 p.m. - 3 a.m. in the Rosaria Hall cafeteria at Mount Saint Vincent University. This will feature dancing to a live Caribbean band, Caribbean food and a Caribbean floor show. A special feature will be the appearance of the reigning Junior Calypso Queen from Trinidad, who is pursuing her studies at a University in Metro.

The Caribbean Students' Association have undertaken as their major project for the 1979-80 academic year, the raising of funds for hurricane relief in Dominica. The organizations have already sponsored film shows and a small folk concert, which have raised nearly \$300.

Caribanza is the culminating activity for this project. A portion of the proceeds from Caribanza will also go to the association's scholarship fund, established three years ago.

Tickets for Caribanza are: \$3.50 for the variety folk concert (Students with I.D. \$2.50) and \$5.00 for the "Jump-Up". They are available at the Red Herring Book Store, 1652 Barrington Street, Dalhousie SUB Feb. 11-15, 11 a.m. - 2 p.m. Further information may be obtained by calling 423-7063 or 443-7471.