

DFA votes in favor of strike action

Members of the Dalhousie Faculty Association last week voted in favor of strike action, says Dr. Marcia Ozier, of the DFA's negotiating team. Results of the vote were not announced.

But the 700 DFA members don't plan to man the picket lines immediately. "I cannot say what the next step is," Ozier says. "Our intention is to continue negotiations with the university."

It is understood that if a strike were to be called, it could not be for about two months.

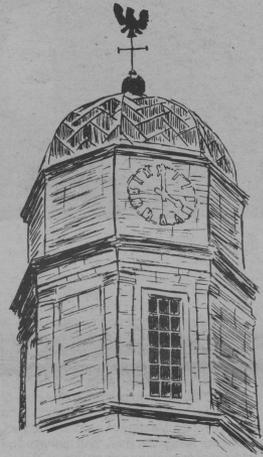
DFA President Dr. Sandy Young said the association was "not ready to take any strike action." No deadline, he said, had been set regarding the negotiations. "We're seeing some movement at the bargaining table," said.

DFA members met to consider the ramifications of strike action, after this issue of *Dal*

News went to press. The DFA, Young stressed, would not be considering a break off in negotiations.

Dr. Alasdair Sinclair, vice-president (academic and research), speaking on behalf of the administration, said, "Members of the Dalhousie community are naturally concerned about the positive strike vote taken by the Dalhousie Faculty Association. Clearly this is an important and serious development.

"We are seeking ways to address the problem areas still outstanding in the process of collective bargaining, and we will continue to work toward a negotiated solution and a new contract with the Faculty Association, within the limit of resources available to the university."



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Convocation draws big crowds

It was standing room only at the Cohn - but it wasn't a pop star or a Pavarotti drawing the crowd.

It was Dal's fall convocation, being held for the first time - at least in recent history - on a Saturday.

The 1,040-seat auditorium was packed on Oct. 20 and the guests who couldn't get seats were accommodated on the stage.

A total of 404 degrees, diplomas and certificates being awarded were listed in the program. Most of the graduating students were on hand to pick up their parchments but others had received theirs earlier in the term or were awarded them in absentia.

In his address, the president, Dr. W. Andrew MacKay, highlighted the previous Saturday's Leadership Day, at which the university's \$25 million fund raising campaign was launched. MacKay praised members of the Sobeys family for their service to Nova Scotia, to the Dalhousie Medical Research Foundation and to the new campaign. (Donald Sobeys is general chairman of the campaign; his father, Frank H.

Sobeys, was to receive an honorary degree at convocation.)

He also mentioned the \$10 million gift from the Province of Nova Scotia to the campaign. It was, he said, timely and would help to support renovations to the university's physical plant.

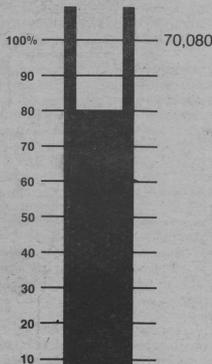
After the degrees, diplomas and certificates were presented to the graduating students, honorary degrees were conferred on Frank H. Sobeys, prominent Nova Scotia businessman and public servant, and Professor Adebayo Adedeji, United Nations under-secretary-general and executive secretary of the Economic Commission for Africa.

Adedeji, who gave the convocation address, said the world was at a crossroads. "It has, since the end of World War II, become more interdependent than ever before yet it continues to drift apart. While, thanks to scientific and technological breakthroughs, it is today much smaller... the gap between the developed and the developing countries is growing wider every day.

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Trevor MacLean, a student at the Dalhousie Elementary School, hammers away on the playhouse he's building with his school mates. The pupils planned the 1½-month project, produced a scale model and blue prints and got a building permit from Dal before the construction start-up. (Chislett Photo)



United Way campaign wraps up on campus

The Dalhousie United Way Campaign wraps up at 3:30 p.m. on Thursday, Nov. 8 when the United Way flag is officially taken down.

At 3:45 p.m. in Room 224 of the Student Union Building, awards and citations will be given for highest participation and per capita gifts.



United Way



President to president presentation: Dal president Dr. W. Andrew MacKay confers a Bachelor of Arts Degree (Honours in English) on Alex Gigeroff, president of the Dalhousie Student Union, at fall convocation ceremonies. (Carlos Photo)

"Today we talk about one world yet we are more divided than ever - divided by ideological differences, divided by different perceptions as to how our relations, particularly our economic relations, should be organized and, above all, divided by our capacities to generate additional wealth, to be master of our natural resources and environments and to meet the needs - sometimes the basic needs - of our respective national populations."

Adedeji said universities were unique institutions. They were local, national and international in their outlook and it was important that universities throughout the world projected to the fullest extent possible their international character by putting their weight strongly on the side of international dialogue, international understanding and positive international cooperation.

He paid tribute to Dalhousie for the research work and publications of some of its scholars on African and other Third World political and socio-economic problems.

"In this regard it is among the growing number of universities throughout the world that are seeking to promote international understanding and cooperation through research and the dissemination of the outputs of such research."

He mentioned the upcoming conference at Dal from Nov. 2 to 4 with the Economic

Commission of Africa on the Lagos Plan of Action and its implications for international co-operation which will examine some of Africa's financial problems.

Earlier, the president had singled out a few graduating students for mention. One of them was Dora M. Carbonu, of Ghana, who received her Master of Nursing degree. Carbonu, said MacKay, had served the international student community at Dal as vice-president and president of the International Students Association. She received a gold 'D' from the Student Union and is now taking her doctorate in nursing at Columbia University.

Neil Erskine, of Bathurst, N.B., who received his BSc, was also awarded a gold 'D'. He helped to turn the student radio, CKDU, from an AM to an FM station.

Alexander K. Gigeroff, president of the Student Union, presented the Malcolm Honor Award for "unselfish service to others," to former DSU president Peter Rans, who had also served as an executive member of the Dalhousie Association of Graduate Students and the Students Union of Nova Scotia.

Gigeroff, of Yarmouth, graduated with his BA (Honors in English) and Rans, of Shrewsbury, England, with his PhD in English. — Derek Mann

Among other items, Dalhousie paid about \$5.5 million more in salaries and benefits, and cut interest payments and bank charges by about \$600,000.

The university received about \$4.3 million in operating grants from the province, almost \$10 million more than the 1981-82 operating grant. Overall investment income remained about the same at about \$3.7 million.

Financial statement released

Dalhousie's Financial Statements, dated March 1984, note that the university came in \$8,400 under its budgeted deficit in 1983-84.

The year's deficit of \$1,093 million was down from the \$1,123 million deficit of 1982-83, and less than one-quarter of the 1981-82 deficit of \$4.8 million.

Total expenditures for 1983-84 were \$93.5 million, an increase of \$6.8 million over 1982-83.

Total revenues for 1983-84 were \$93.1 million, an increase of \$7.3 million over 1982-83.

New program for Micmac social workers

The Maritime School of Social Work has started a Bachelor of Social Work degree tailored to the needs of Micmac social program staff.

The 26 enrolled in the course are Micmacs employed as social workers on Nova Scotia reserves. Most, who are between the ages of 25 and 50, have considerable work experience. They will continue their jobs but take classes four working days a month — two in Halifax and two in Sydney.

Students will take three courses a year. Program co-ordinator Jackie Pace says it will take five years to earn a degree, although it will take longer for those who don't meet standard university requirements. The impetus for the program came two years ago when the Union of Nova Scotia Indians' Micmac Training Institute began discussions with the School of Social Work.

"The social workers felt they needed more professional training for some of the situations they were encountering on the reserves," says Pace who is not a Micmac

but has seven years experience as a social worker on a reserve. "They will take all the courses in the regular Bachelor of Social Work program, although the courses have been adapted to be more applicable to what they can do on the reserve."

In the past the workers had limited opportunities to upgrade their qualifications, because of family and work obligations.

The program will be evaluated after the initial group completes its five years of study and a decision made on whether to make it permanent. The only new students admitted during that interval will be Micmac students in other BSW programs, or replacements for employed students who leave.

The program has the unanimous endorsement of the Micmac chiefs of Nova Scotia and has also received strong support from the Department of Indian Affairs, the Native Council of Nova Scotia and the Native Alcohol and Drug Association. Band welfare officers and clerks have been consulted in designing the program. EM

To the editor:

ENTHUSIASTIC THANKS

I would like to express, on behalf of I am sure of the entire community, enthusiastic thanks and admiration to Professor Christine Boyle for her role in organizing the 1984 Killam Lecture Series. Although she was not the only person involved in the organizing, she was undoubtedly the one who contributed the most time and energy over a period of timeliness of the lectures and to the effective organizing.

Congratulations should also go to Dr. Phyllis Stern and other members of the organizing committee of the School of Nursing for bringing Halifax the very successful "First International Conference on Women's Health Issues."

Patricia D. Mac
Assistant Professor
French Department

Dalhousie University Statement of Revenue and Expenses

For the period ended March 31, 1984, with comparative figures for 1982-83

Revenues	1984	1983
Government Grants:		
Provincial operating grant	65,337,019	61,084,461
Other	692,231	652,174
Grants, corporations and foundations		
Academic fees	11,090,546	138,632
Non-credit and other fees	2,472,044	2,184,159
Recoveries: salaries, services, M.S.L.	6,184,355	5,275,518
General income	3,580,066	3,606,574
Gifts	59,495	16,467
Investment income	1,560	20,871
Investment income from other funds	3,697,767	3,529,480
Total revenues	93,115,083	85,816,106
Expenditures		
Salaries:		
Academic	41,308,942	38,094,331
Library	1,556,255	1,418,422
Plant maintenance	2,181,890	2,031,088
Administrative and support	18,612,260	16,887,381
Employee termination settlements	221,223	287,680
Benefit costs	6,030,403	5,778,912
Total salaries and benefits	69,910,973	64,497,814
Library acquisitions	1,802,273	1,649,389
Laboratory and teaching supplies	1,180,647	913,268
Equipment and service	2,735,463	2,263,316
Travel	1,289,473	1,079,769
Communication expenses	1,307,850	1,163,922
Interest and bank charges	2,862,456	3,471,298
Oil, electricity, water and taxes	5,376,820	4,878,661
Externally contracted services	4,961,701	4,554,254
Scholarships, bursaries, prizes	843,509	838,974
General expenses	3,923,899	3,552,995
Interfund transfers	(2,677,693)	(2,099,477)
Total expenditures	93,517,371	86,764,183
Net change before the undernoted	(402,288)	(948,077)
Ancillary surplus/deficit transferred to operating	(51,904)	(174,676)
Appropriations for the year	(637,397)	
(Deficit) surplus for the year	(1,091,589)	(1,122,753)



Marge Piercy discussed her feminist visions with members of the audience after her well-received lecture on "Feminism: A vision to end dichotomies." (Carlos Photo)

Piercy calls for basic human values

Feminist concerns are everyone's concerns, Marge Piercy said during a lively, thought-provoking lecture at Dalhousie last month.

She described feminist issues as "basic mammalian concerns: war and peace, the environment, race and class."

"How will my family survive?" and "Am I loved?" are obvious concerns for nearly everyone, she told a capacity audience - made up predominantly of women - at the Cohn Auditorium during the first in the three-part Dorothy J. Killam Memorial Lecture Series on *Feminist Visions*.

On the topic "Feminism: A Vision to End Dichotomies" she talked about equality, the family, the misleading image the media projects on women, a return to the basics of the feminist vision. Piercy, an American novelist, poet and political activist, spoke lyrically - and quickly - and with passion. "Nobody can be less equal than anybody else," she said. The "dung beetle" can't be viewed as less worthy than the "honey bee."

At the same time, the women's movement shouldn't be a closed shop. It can't exclude working-class women, lesbians, single women, women with men, she said.

Nevertheless, it can't be reduced to any of these one groups. "It can no longer be a symbol for the affluent." The media stars, she said, shouldn't set the agenda.

She condemned the dichotomy in our society between the feelers and the doers represented respectively by women and men. "We have a lot of feelings," she said. "They have a lot of bombs. It's not working out."

Feminism, she noted, is "a great deal more relevant than the patriarchy" which has led us to Armageddon. "Some of our values are monstrous," she said. "We do not act like we are relevant." To survive, society must become more caring, more able to think beyond our own family and to focus on the basics. "We want peace and dignity, she said. "We want to be thought of as human beings. We want love but we don't want to die of it."

Opinion: A male's view of the Piercy lecture

"Liberated women" or "feminists" threaten many men. To counter this threat to their perceived supremacy, men use the media to remake women in an image of how men want them to be: An obedient, subservient housewife who has supper cooked by six.

If women reject this - as they should - an alternative image offered by men is that of a bra-burner with body odour and more hair under her arms than a broom has bristles. There seems to be no middle ground.

Marge Piercy talked about the media images of women and said the media-created role models were impossible to live up to. This, she said, led to frustration, anxiety and an uncaring attitude towards others. Problems on television, for instance, were often solved in less than an hour. Body odour and bad breath were eliminated in less than 30 seconds.

Problems in the other world - the real one, that is - have no such instant solutions.

Divorce, pollution, loneliness, sexual abuse are never cleared up in an hour. Sometimes never.

Piercy demands a total restructuring of all levels of society so that men and women treat each other as equals while respecting their differences.

I get the feeling that if you take away the word "feminism" from what Piercy is saying, you get the basic human values: Caring for others, patience, hope and love. We need these attributes now more than ever as we plunge and crash into the future with our eyes glued to the rear view mirror. — Paul Chislett

Ventilation problems

Complaints about stale air, extreme cold or heat in some of Dal's buildings are nothing new. But the Killam Library is a good - or bad - example of the ventilation problem.

It is a sealed building - that means the windows don't open and that air temperature and circulation are controlled by what is known as a high velocity dual-duct heating and cooling system.

Under ideal conditions, this system should be able to keep a building like the Killam (or Tupper, Arts Centre, Physical Plant) at a consistent, comfortable temperature and provide plenty of fresh air. Ideal conditions include the proper use of space, and 24-hour operation of the ventilation system.

But ideal conditions don't exist and the building can be unpleasant for staff working there.

Crews from the Physical Plant are checking out the thermostats, the dampers and fan speeds to balance the building's ventilation system.

"It all comes down to improving the heating, cooling and ventilation systems we have, and at the same time using as little energy as possible," says Roger Jollimore, Physical Plant co-ordinator. "The unfortunate thing is that there's no quick fix."

A number of factors have caused the problems - ones that exist in buildings throughout North America.

Space in the Killam - and other buildings on campus - is now used for functions it wasn't designed for. Then there was the energy crises in the early Seventies which forced Dal to initiate cost-saving measures.

Areas in the Killam originally designed for storage and other "non-people" uses became classrooms and offices and the ventilation system had to support an extra

work load. The system wasn't able to properly balance air pressure and mix fresh and recirculated air. It was further taxed when it was taken off a 24-hour operation and shut down at night to save on energy costs.

When the Killam was designed, before 1970, and built, Jollimore says, energy was cheap, and like many other buildings of the same vintage, not designed for energy conservation. Although the design and ventilation systems were "state of the art" they soon became obsolete.

What his staff have been doing and continue to do, he says, is to provide the best mixture of air and temperature and make the buildings as comfortable as possible with the existing systems.

Jollimore can sympathize with the people who work and study in the Killam. The building housing his office (Central Services) has the same problems. His office (and the entire building) gets stiflingly hot in the summer and bone-chilling cold in winter.

The big problem to a quick solution is money - the money it takes to run the present systems and the money it would take for a complete overhaul.

To keep the power bill down, Dal must try to keep electrical consumption below a certain rate (6,500 kva - kilo volt amperes). If electrical consumption gets close to 6,500 kva, a monitoring computer shuts down some of the heating and cooling systems - a better solution than cutting power to offices and classrooms. This shutdown saves the university about \$200,000 per year.

It's important to note, says Jollimore, that air quality suffers only marginally and no where near dangerous. To ensure the safety of the people in the building, he's had the Health Department monitor the air's quality.

— Stuart Watson

Dal News

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Researchers thrown to the wolves

When Dr. John Fentress arrived at Dalhousie University 10 years ago he found himself in the midst of a pack of wolves. Fentress, in fact, brought some of the wolves with him from Oregon, where he had been teaching.

Fentress, who has never shied away from looking *Canis lupus* straight in the eye, has thrived so well in that wild environment that the Dalhousie University Animal Behavior Research Station at Shubenacadie, of which he is director, recently received a three-year Natural Sciences and Engineering Research Council (NSERC) infrastructure grant valued at \$40,000 per year.

The station, on land belonging to the Nova Scotia Wildlife Park at Shubenacadie, has earned international acclaim during the past decade for research into the social behavior of wolves.

The unique nature of the facility — which allows studies of social integration and development of a wild mammalian species over the animals' individual lifetimes — is reflected in the amount of publicity it has received from television programs such as *Science Magazine*, the new CBC show *Chain of Life* and a series on animal behavior produced by the BBC.

"I firmly believe we have the potential to realize the finest animal behavior research station in Canada," says Fentress, a member of Dalhousie's biology and psychology departments who has been studying the beasts for 20 years. He obtained his first wolf, Lupy, as a student at Cambridge.

Fentress cited co-operation between the university and the Nova Scotia Department of Lands and Forests as a key reason for the success of the project to date. Park director Eldon Pace has been very helpful.

Fentress, the principal applicant for the NSERC grant, was joined by Dr. Richard Brown of Dalhousie, Dr. B. Rusak of Dalhousie, and Dr. Fred Harrington of Mount Saint Vincent. Harrington is also an expert on wolves and Brown and Rusak will study rodent species.

"We're able to look at social behavior and development behavior in a setting approximating nature," says Fentress. "We're not just looking at an albino rat in a cage in the lab. We're doing captive studies in a relatively unrestricted area. We study communication, the significance of the many types of sounds the wolves make, their postures and the co-ordinated social activities you can't get a handle on in the field.

"Communication and social development are things we don't fully understand in any species, including ours, so we try to correlate the findings we get from wolves, rats, and other animals under study," Fentress says.

The research at the station focuses on the dynamic relations among animals, the way individuals within the pack develop socially and adjust their behavior to one another. The station also provides rich material for classes in ethology — the study of animal behavior (especially in relation to habits).

Studies done under constrained conditions, which severely cramp movement of the subject, and studies conducted in the wild, where sightings are rare, both have inherent drawbacks. It is hoped work at the station in Shubenacadie will bridge these situations. There are already indications that it provides strong grounding in scientific research for students in field work.

"I feel more comfortable with our wolves than with some strange dogs of similar size," he says. Full-grown male wolves average 80 to 95 pounds. Females are about 15 pounds lighter. "I certainly don't consider the work we are doing to be dangerous, although reasonable caution is obviously called for," he says. He won't let people that the wolves don't know inside the enclosures. A small child, for example, might make a sudden



Fangs for the memories: Sylvia and Zelda have fond recollections for years after this 1973 mating season picture was taken. (Parr photo)

movement that could trigger an attack, he says. "That's just too large a chance to take."

Since the compound opened in '74 two masters' degrees and two PhD degrees have been awarded for work conducted there. Data collection for a third PhD is complete and a fourth PhD project is well underway. Three pre-doctoral and two post-doctoral fellowships have been awarded to individuals working at the facility. Since 1978, 19 undergraduates from Dal, Acadia, Mount Saint Vincent and four U.S. universities have undertaken research projects at the station.

"Within the limits possible, we stress discipline and urge the students to pursue their own projects," says Fentress. "By letting them find their own projects, put programs together and put up with the procedural headaches all researchers have to deal with, we feel we have helped launch the students as professional researchers."

Wolves are studied in two separate observation areas — a large pen, enclosing about 10 acres of wooded area, which holds 12 animals, and small holding pens where six others are kept. Observing the wolves in the large area is more difficult, but the animals lead a fairly natural existence while those in the small pens are under closer scrutiny.

"One value of this program is the sheer quantity of data we have gathered from watching the animals over 10 years," says Jenny Ryon, head animal caretaker and research technician who has worked with Fentress since he was studying wolves at the University of Oregon in the early 1970s.

"Dave Mech (an American researcher with whom Fentress and Ryon exchange information) has studied wolves in the wild for 20 years, spotting them from the air and tracking them with radio collars. He has only observed one (pack) feeding in that time, while we've had seven seasons and more than a thousand feedings. People in the wild have to extrapolate from a few sightings, while we have the advantage of seeing how the entire pack interacts at feeding time."

The value of the research has been demonstrated in several ways.

"One benefit, obviously, is that we gain a deeper appreciation of one of North America's most fascinating — and poorly understood — animal species," Fentress says. A second benefit is the illumination of rules of behavioral organization that may apply to various species, even our own.

"In their social organization, wolves provide interesting analogies to man. They have a family group and a larger, co-operative group which is the pack. However, we have to stress that each species, indeed each individual, is in important respects unique and that uniqueness deserves careful investigation."

One of the wolves, a female named Zelda, died recently after experiencing nearly every experience life has to offer a wolf. She was the alpha, or most powerful female, until her daughter deposed her. She was observed through pregnancy and birth.

Just as every human is unique, each wolf has its own personality. "There are a great deal of individual differences," says Peter MacLeod, a PhD student who has spent a lot of time inside the large enclosure, videotaping *Canis lupus* in a pack situation. "After you've studied them closely, you can see a lot of individuality."

MacLeod recalls the time he was filming a wolf feeding on a deer killed on the highway. The lighting was bad and MacLeod decided, with some trepidation, to drag both food and wolf out of the shadows. While he hauled the deer leg about 15 feet, the wolf — one he had helped to raise — continued to gnaw away contentedly.

"If he had barked, I would have stopped immediately. They will usually bark to give you a warning. If they follow that bark with a growl, then you know you are in a bad situation."

MacLeod admits he would not consider trying that manoeuvre with some of the other wolves he works with.

Wolves have a definite hierarchy and the dominant male and the dominant female usually mate. The rest of the pack, from three to 30 wolves, can be ordered by social rank, although there are "subtle differences in behavior that defy simple linear scaling."

All animals participate in pup care, even females the dominant she-wolf has not allowed to breed. Theories differ on why these outcasts would co-operate. One is the concept of kin selection, whereby the wolf is genetically predisposed to look after its own kind — pack members are usually related — in order to increase the chances of survival of its genes.

Another, totally different possibility, has a more immediate explanation. They may be doing this in hopes of becoming re-integrated into the pack. By looking after the pups, they may gain social standing and

then be allowed to breed. In a pack with five females, it would be common for three to breed in a year.

Adult males and yearlings help feed pups, by regurgitation when they are very young, later by bringing home solid meat. Pregnant or nursing females are often fed too.

"It's so interesting to see how much the adults enjoy the pups. They just go wild over them," Ryon says.

The lone wolf does exist. Fortunate strays find a wolf of the opposite gender to mate with, which means the formation of a new pack. Wolves displaced from their birth pack may keep the pack from too much inbreeding.

The research station also has four coyotes in a separate area. While a wolf will usually steer clear of man at all costs, the coyote is different. The coyote tends to hide from man but it may set up housekeeping right under his nose. Coyotes have been known to make dens in suburban culverts. They've even been seen on the streets of Los Angeles.

"Coyotes are among the most persecuted mammals in North America, and yet they thrive," says Jenny Ryon. "I think of them as having a sort of joie de vivre, while wolves have a tragic and glamorous air about them."

"I prefer to think of the wolf as being kind of laid-back and cool," says Fentress.

"The coyote is definitely more curious," Fentress says. This trait sometimes gets the smaller wild dog in trouble. "It's almost impossible to catch a wolf in a leg-hold trap. If you aren't extremely meticulous and leave just a little human scent, he will be off as soon as he smells it. With coyotes, sometimes I think the best way to get them into a trap is to spray it with perfume and set off an alarm clock underneath."

Despite the coyote's lack of fear of man, the animal is so stealthy that Ryon says it had probably been in Nova Scotia for five years before its presence was proven.

Coyotes recently made the news. Pictou County farmers reported losing sheep to them.

Once the wolf roamed naturally in Nova Scotia. But with the encroachment of man on its habitat, it disappeared from this province early this century. — *By Ed MacLellan*

Janes receives \$28,000 research scholarship

Dr. Ron D. Janes, a 26-year-old physician at Dalhousie medical school who is contributing to the growing bank of knowledge about the human heart, has received a \$28,000 Patton Medical Research Scholarship. He is the first Dal graduate to receive the award from the Dalhousie Medical Research Foundation.

Although medical research has focused on the human heart for years, precisely how the nervous system affects the healthy and diseased heart is still not fully understood.

Janes' interest in research began as a biology honors student at Acadia University. In 1979 he entered med school and became became one of four students to win the first scholarship awarded by the then new foundation. Janes, a native of St. John's, Nfld., has worked with the International Grenfell Association in St. Anthony, Nfld.

His research into nervous control of the heart follows both laboratory animals and humans in a clinical setting. He's working with Dr. David Murphy, a heart surgeon; Dr. Chris Brandys, a surgery resident; Dr. Drew Armour, a physiologist; Dr. Gerald Klassen, a cardiologist; Dr. David Johnstone, a cardiologist; and Dr. David Hopkins, an anatomist.

They have made extensive studies on the effects of nerve stimulations on heart function in anaesthetized animals and have begun work, during cardiac surgery, on how those nerves function in man.

They are studying coronary vasospasm (sudden restriction of the heart arteries) which can cause chest pain or angina. If the spasm continues, Janes says, it can cause a heart attack or death. The spasm is sometimes treated by severing the nerves which supply those spastic arteries. Research may help to improve the treatment.

Researchers will also investigate patients with Raynaud's disease which can cause extreme pain because of artery spasm in the limbs. Chemically blocking the nerves which supply those spastic arteries frequently relieves the pain.

Patients with Raynaud's disease who will be studied before and after having their nerves blocked will perform an exercise test to see if the nerve block for Raynaud's affects their heart activity at rest or during exercise. "If we can show there is a beneficial difference, this may be a technique for relieving the pain of angina or treating arrhythmias, Janes says. — Barbara Hinds.

CKDU gets FM licence

CKDU fans are starting to hear the sound at the end of the tunnel but it will take another three months or so before Dal's FM stereo station starts broadcasting to metropolitan Halifax-Dartmouth on 97.5 on the FM dial.

While the CRTC has approved CKDU's application, the technical and logistic problems of setting up new equipment and renovating studio space is the cause of the delay.

"We have everything we need," says Keith Tufts, revenue-promotions manager of the station, which will have 160 people working in various capacities. "But we just can't go right away after being off the air for six months."

Part of the problem is that Dal's carpenters are busy and won't be able to devote as much time to the radio station as it needs, Tufts says.

For about three weeks the station has known it would get a licence but Tufts was confident all along that they would get the go ahead from the governing body.

"There were a lot of interventions (to the CRTC) on our part and none against us."

One hold up resulted because CKDU applied to broadcast on the 93.1 frequency, which they were told was available. The Department of Communications later said that would interfere with a new CBC French station. A switch had to be made to 97.5.

CKDU's objective is to provide creative and innovative programming.

"The station will broadcast a diverse selection of programming designed to provide Halifax-Dartmouth with a service alternative to local AM and FM stations and to complement the needs and wants of its campus and community audience," a release issued by the station said last week. "CKDU will support those types of programming not currently represented in the metro area in a manner that is informative, creative, innovative and entertaining."

Most programming will consist of new music. Rock pop, reggae, folk classical, jazz and blues will also be aired. The station will also air community-oriented shows that look at local issues and development.

The station will encourage freedom of expression by supporting artists outside or in opposition to the mainstream.

"In striving for this, CKDU-FM will combine the professionalism of commercial radio with a sense of scope on the world-wide developments in art and music."

The studio will be in the SUB, while CKDU-FM's 50-watt transmitter will beam its signal from the physical plant building. The station will carry no advertising, although some of its revenue will come from sponsorships of certain programs, or of the station itself. Most revenue will come from a nine-dollar segment of the student fee that is set aside for the station. EM

Who are the Acadians?

What promises to be an entertaining history lesson *par excellence* is scheduled for the Cohn on Nov. 8 and 9.

Who are the Acadians, being produced by the Dalhousie Medical Research Foundation is a historical documentary — being presented in film, story, song and dance. dance.

Five performances are scheduled (at 11 a.m., 2 p.m. and 8 p.m. on Thursday, Nov. 8 and 11 a.m. and 8 p.m. on Friday, Nov. 9) but, says co-producer Ron MacInnis, the three final ones are already sold out. Tickets for the evening performances (\$6.50 regular, \$5.50 students and senior citizens) are still available.

Schools in the province have shown an interest in the show and groups of students will be used in from Annapolis and Hants counties.

MacInnis, who is producing the show with Peter d'Entremont, said last week the show would have a broad appeal. "We think it's a lesson of Acadian history *par excellence*, and should be of interest to people inter-

ested in history, sociology — even psychology."

Background assistance for the production has come from Fr. Charles Aucoin, of Cheticamp, and Neil Boucher, of the Acadia Centre at Université Ste. Anne. The staff of Fortress Louisbourg lent period costumes, a troupe of willing actors to model them, and access to slides and photographs.

Among the performers will be Les Voix d'Acadie chorus, the singing trio of Susan, Clare and Joe, and Mme. Claudette Sapp, who will bring the character of *La Sagouine* to life on the stage.

Wendell and Philip d'Eon, and Kenneth and Johnny, all fine Acadian musicians, grade 3 students from Beaufort School who will sing under the direction of Mrs. Margaret Perron, and others will be in the cast.

MacInnis and d'Entremont hope the show will lead to better Anglo-French understanding and that it will give many Acadians and others an understanding of the Acadian heritage.



The School of Business Administration is getting ready to take a giant leap in the field of business education. It all goes according to plan, business courses in the school will integrate computers into the teaching process. (Watson Photo)

Business students to explore 'real' world through computers

Dalhousie's business school is planning to take a bold and unique step in the education of business students. All courses in the school's degree programs could be altered to include the use of computer programs.

"This radical restructuring of the curriculum will change the way students learn and the way faculty teach," says Dr. David Cameron, vice-president (planning and resources).

The motivation for the project came from business school faculty, who feel that students should be educated using tools and situations they will encounter in real life. Using computers to develop problem-solving techniques will give Dal students a distinct advantage in the business world, Cameron says.

Not only will students use what he calls "real world equipment," they will use "real world data (to be supplied some major Canadian corporations) complete with its flaws and gaps."

The information will serve as a basis for assignments and students will be able to see, for the first time, the "real" results of their work, as opposed to hypothetical or partial results.

A student's solution to a marketing problem, for instance, will be judged from more than a marketing angle. Using an integrated data base, the student will see the consequences of a proposed solution on the rest of the company, in terms of profit, loss, or even bankruptcy — much like a flight simulator tells a pilot if he's crashed the plane and killed the passengers.

The consequences of a student's solutions aren't always evident in traditionally

taught courses. The point of the computer-integrated courses is to provide practical, hands-on education.

For years corporations have called for such a development, and for the business school graduates who can meet the corporate challenge of the 80s and the future.

Dal students will learn about the business world, using the computers as a source of information, unlike students at other schools whose business courses deal in theory, or if computers are used, don't integrate them into the curriculum. But Dal business students won't have to become computer wizards.

"The idea of the integration is not to graduate business students who are expert computer programmers," says Cameron. "The computers are there to be used as tools for developing answers to problems. It's a new way of approaching problem-solving."

To finance the integration of computers into the business courses, Dal is looking for a computer manufacturer to provide the necessary hardware and software, including a mainframe (mini) computer and desktop (micro) computers. In return, the manufacturer will receive business programs (courseware) which can be marketed world-wide. The business school would share in any profits generated from program sales and it's possible that a locally-based software company may also be involved.

Like any new program, there are some risks, Cameron says, but they're worth taking because the benefits to the students, the school and the business community would be great. — Stuart Watson



Dr. Arend Bonen (right) discusses lab results with assistant Julius Espirito Jr. for the study on diabetes and exercise. (Christlet Photo)

Exercise benefits diabetics

Diabetics who exercise regularly obtain the same benefits as those without diabetes, with a definite bonus - they are able to make use of insulin more positively to control their disease.

It's known that skeletal muscle is the major tissue where blood glucose (a natural sugar) is stored. Dalhousie professors Dr. Arend Bonen and Dr. Meng Tan who, in a previous study, demonstrated skeletal muscle shows increased insulin binding and more efficient use of glucose after physical training, have received grants from the Canadian Diabetic Association (\$102,000) and the Medical Research Council of Canada (\$78,000).

They will study further the effects of exercise on insulin action in skeletal muscle and, therefore, how insulin regulates the metabolism of glucose. In the past four years, they have developed a method to study these phenomena in human skeletal muscle.

"We are trying to find ways to get the body to utilize insulin and glucose more efficiently," says Bonen, who began diabetes research with Tan four years ago.

The first stage of their study involves non-diabetics because "we have to know what happens to healthy people during exercise before we go on to diabetics," Bonen says.

Bonen, with the School of Recreation, Physical and Health Education, and Tan, of the Faculty of Medicine, are looking for 20 healthy volunteers between 18 and 40 who will undergo a supervised exercise program at Dalplex. The program which is designed

to work on cardiovascular fitness will run eight to 10 weeks. Because it will be conducted during winter, all exercise will be indoors.

Anyone interested in taking part in these studies may contact Bonen at 424-2152.

Diabetes is a greater health problem than many people realize. Injection or ingestion of insulin is not a cure for diabetes, merely a method of managing the disease. Exercise is good for both type I (juvenile) and type II (maturity onset) diabetics, says Bonen, but those with type II may have the most to gain.

While type I diabetics can't produce insulin, those with type II can; their problem is the body produces insulin but isn't able to use it efficiently. Type II diabetics must take extra insulin and this "shotgun" effect ensures that enough of the hormone enters the body to regulate blood sugar.

If exercise allows a diabetic to use insulin more efficiently, it will be easier to keep the level of sugar in the bloodstream within acceptable limits. Excessive blood sugar is a factor in the high rate of cardio-vascular, kidney and eye problems that diabetics are subject to.

"It's the training, not just one bout of exercise, that affects the insulin binding or the glucose uptake," says Tan. "You need repeated bouts of exercise to have this."

Tan and Bonen will be studying this change in the way insulin attaches itself to skeletal muscle after a person embarks on an exercise program. *EM*

MAESSEN FUND SET UP

Former Dalhousie volleyball star Karin Maessen has to pay more than \$5,000 in legal fees after her unsuccessful court fight to gain a tryout with Canada's 1984 Olympic team.

Maessen, described by Dal volleyball coach Lois MacGregor as "the best and most committed athlete that our women's national team program has ever had," was a member of the national team for nine years. A perennial all-star, she was also the CIAU's most valuable player in women's volleyball for 1981-82.

She retired early this year when Canada could not qualify for an Olympic berth. National coach Lorne Sawula promised her an open tryout at any time, should she come out of retirement. After the Soviet-led boycott opened a spot for Canada, Maessen didn't get a tryout, although two other retired players did.

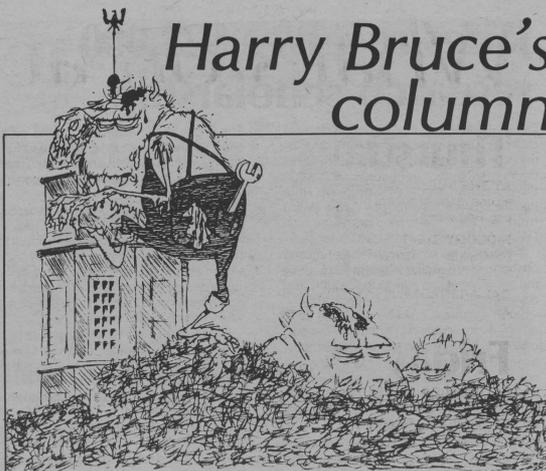
The Ontario Supreme Court ruled in July the team was not obliged to let Maessen prove herself before an impartial panel.

Maessen, finishing her master's in kinesiology at Dalhousie, has had to shelve plans to play professional volleyball in Europe because her father was seriously ill.

A fund has been set up to help Maessen defray her legal costs. Cheques and money orders may be mailed to: The Karin Maessen Fund, c/o Kent Rodgers, Davis Clark and Associates, Box 159, Dartmouth, N.S. B2Y 3Y3.

This isn't the firm Maessen hired for her court fight. Rodgers says all money received will directly support Maessen's legal bills; none will go toward administrative costs. Tax receipts will be issued.

Harry Bruce's column



THE YEAR OF UNIVERSITY BASHING

Has there ever been a year of such relentless university-bashing? For months now, the media, parents, students, professors, politicians, businessmen, bankers, everybody and his uncle have been bombarding the towers of academe, and ripping down ivy to bare the supposedly hideous failings of universities. Walter F. Light, chairman of Northern Telecom Ltd., fired a barrage last April when he suggested at his company's annual meeting, that the universities were in such pathetic shape Canada's very future was at risk. He was like the first soldier over the hill. Hooting and hollering, waves of others followed him in the charge on the universities.

Some of the complaints run like this: Universities waste money. Tenured deadwood litters every campus. Universities are gutless. Many submitted to pressure by ignorant students to invent credit courses that suck. Universities are turning themselves into glorified high schools and institutes of vocational training. In a sordid scramble for government funds, in an unseemly rush to comply with the popular but stupid notion that everyone has a right to attend university, they became too democratic. They swung their gates wide to welcome mobs of youngsters who just didn't belong in a true university. They abandoned their commitment to excellence. In short, the universities sold their principles down the river, and perhaps Canada's future as well. Bettereducated nations may surge past us in the race for a decent standard of living. And so on, and on.

Though not concerted, the abuse is dangerous. For it could serve as a softening-up attack to make the universities groggily receptive to doses of state control. Some argue if the universities are failing the people, surely the people's government should take a hand in their direction. Ironically, the book that both professors and students love to hate warns of the threat from bureaucracy. *The Great Brain Robbery - Canada's Universities on the Road to Ruin* says this:

"Big Brother is alive and well in Ottawa, poking his television lens and

sensor into every corner, encouraging research here and turning a blind eye there. If the judgments were made only on grounds of quality, we could not complain. But government funding decisions seem to be based more and more on what Ottawa thinks best for us all. There is an element of social engineering here that is unhealthy, and academics as a rule have little confidence in the bureaucrats who operate the federal system. How can we? Too many of them were our students."

Some regard *The Great Brain Robbery* as a hysterical polemic, but we need not take only its word for the fact that bureaucrats are ready to meddle. Here's evidence from the horse's mouth, from official principles and objectives of the Secretary of State: "The beneficiaries of federal education funding and the general public should be aware that this funding comes out of federal taxes. Information about the operation of the programs and their impact must be sufficient to allow assessment of their efficiency and effectiveness."

What's disturbing about this is its possible relationship to another objective of the Secretary of State's office: "To promote a post-secondary capacity which is responsive in providing Canadians with the opportunity to obtain the qualifications required for occupations critical to national economic growth and for occupations characterized by a high degree of inter-regional and international mobility."

As Dalhousie's brief to the Nova Scotia Royal Commission on Post Secondary Education put it, "Indeed, running through most of the 'Objectives' (of the Secretary of State) there is the implication that the function of universities is to serve the needs and interests of the State as these are defined by the government. This is a totalitarian approach."

That'll be something to remember long after the heat of this season of university-bashing has died. Names will never hurt you, but sticks, stones and government objectives may break your bones.

LOVE LIKES HIS JOB

When Doug Love retired as a top-level civil servant in May he wanted to keep busy. He got his wish. The School of Public Administration asked if he wanted to do some teaching and he accepted.

Love teaches two courses - one on management of the public service and the other on public personnel administration, and he "likes it very much."

"I can't speak for the students, but I'm enjoying it," he says.

Love should have no trouble with the course material. He's been in the public service since graduating from university 35 years ago.

In that time Love held many positions in the federal public service, including appointments as Deputy Minister of Labour, with the Department of Regional and Economic Expansion (DREE), and Employment and Immigration.

What's on at Dalhousie

Thursday

Nov. 1, 1984

AT THE SUB: Michael Newman. He has gained recognition as one of the important concert guitarists of his generation. 8 p.m. Reg. Adm. \$12/\$11; Students/Sr. Citizens \$11/\$10.

BIOLOGY DEPT SEMINAR: Heterozygosity and oyster physiology. P. Rodhouse, Dept. of Ecology and Evolution, SUNY, Stony Brook. Room 2970, LSC, 11:30 a.m.

DAL ARENA: Parent and Tot Skate. 10-11 a.m. Admission is \$2.

Friday

Nov. 2, 1984

ECONOMICS DEPT. SEMINAR: *The Productivity Slow-Down, The Falling Rate of Profit and the Current Crisis.* Prof. E.N. Wolff, New York University, Seminar Room 1, 6214 University Ave., 3:30 p.m.

SCHOOL OF NURSING WORKSHOP: *Road Map to Data Analysis.* 15th Floor, Conference Room, Sir Charles Tupper Medical Building, 8-4 p.m.

ART GALLERY BROWN BAG LUNCH SERIES: Gemyel Kelly, curator of the exhibition *Backgrounds: Ten Nova Scotia Women Artists*, will present an illustrated talk on the artists in the show, 12:30 p.m.

SCHOOL OF LIBRARY SERVICE LECTURE: *Gold in the Basement: Copyright Canadian in the British Library.* Prof. John R.T. Ettlinger, MacMechan Auditorium, 11:45 a.m. Open to the public.

FRIDAY AT FOUR: The R.C. Dickson Lecture in Medicine. *University Industry Interface: Overcoming the Barriers.* Dr. W.A. Cochrane, Chief Executive Officer, Connaught Laboratories Limited, Willowdale, Ontario. Lecture Theatre "A," Sir Charles Tupper Medical Building.

APPLIED MATHEMATICS SEMINAR: *Evaluation of multiple dimensional series.* Dr. Jon Borwein, Dalhousie University, Killam Library Room 2616, 4-6 p.m.

PSYCHOLOGY COLLOQUIA: *Social behavior and seasonability in wood rats.* Dr. Steven Glickman, Psychology Dept., University of California, Berkeley. Room 4258/63, LSC, 3:30 p.m.

PART-TIME STUDIES & EXTENSION: *Intensive Speed Reading Course.* 7-10 p.m.; Nov. 3, 9-4p.m.; Nov. 21, 7-10 p.m. For more information call 424-2375.

DALHOUSIE MEN'S VOLLEYBALL: AUSA Tournament, Dalplex, 8p.m.

Saturday

Nov. 3, 1984

DALHOUSIE MEN'S VOLLEYBALL: AUSA Tournament, Dalplex, 12 noon.

DALHOUSIE MEN'S & WOMEN'S SWIMMING: UNB/MUN Dal. Dalplex Pool.

DALHOUSIE MEN'S HOCKEY: UNB at Dalhousie, Dalhousie Memorial Rink, 2 p.m.

DALHOUSIE WOMEN'S VOLLEYBALL: UNB at Dalhousie, 7 p.m., Dalplex, Nov. 3 and 4.

PART-TIME STUDIES & EXTENSION: *Getting Started with Investments.* 9-4 p.m. For more information call 424-2375.

Sunday

Nov. 4, 1984

DALHOUSIE MEN'S HOCKEY: STU at Dalhousie Memorial Rink, 2 p.m.

MUSIC DEPT. RECITAL: William Tritt, widely acclaimed Halifax pianist will be heard in a solo recital at 3 p.m., Rebecca Cohn Auditorium. Reg. Adm. \$10; Students/Sr. Citizens \$6.

Monday

Nov. 5, 1984

PART-TIME STUDIES & EXTENSION COURSE: *Workers in the Maritimes: 1914-1984.* 7:30-9:30 p.m. For more information call 424-2375.

Tuesday

Nov. 6, 1984

PART-TIME STUDIES & EXTENSION COURSE: *Programming in BASIC.* Nov. 6 - Dec. 11, 7:30 - 9:30 p.m. For more information call 424-2375.

ART GALLERY FILM: *The Music of Man. Part Three: New Voices for Man.* Part three is an examination of the development of musical instruments and the refinement of the violin in Italy with Stradivari and Guarneri. MacAloney Room 406 at 12 p.m.; and in the Art Gallery at 8 p.m. Admission is free.

Wednesday

Nov. 7, 1984

DALHOUSIE ALUMNI ASSOCIATION: *Alpine Ski Workshop.* Dalplex — Room 206, 7-9 p.m. For more information call, 424-2071.

PART-TIME STUDIES & EXTENSION COURSE: *Introduction to Computers in Business.* 7:30 - 9:30 p.m. Nov. 7 - Dec. 12.

Introduction to Personal Computers. 7:30 - 9:30 p.m. Nov. 7 to Dec. 12. For more information call 424-2375.

Introduction to Microcomputers - Spreadsheet Application. 8:30 - 4:30 p.m. For more information call 424-2375.

GERMAN FILM: *Der Mond Is A Nackerte Kugel (1979)*, color, 112 min., German. This film is being shown in Theatre A, Tupper Medical Building, 8 p.m. Admission is free.

DAL FILM SERIES: *Heavy Metal.* A step beyond science fiction plus Pink Floyd's *The Wall.* General admission is \$3.

CENTERTAINMENT SERIES: *Third year voice repertoire class* directed by Elvira Gonnella will perform in the Sculpture Court of the Arts Centre at 12:30 p.m. Admission is free.

Thursday

Nov. 8, 1984

POLITICAL SCIENCE DEPT. LECTURE: *Why Do Public Virtues Lead to Public Vices?* Lewis Anthony Dexter, a leading expert on the activities of Congress and of Congressmen and in particular the extent to which they are influenced in policy by lobbying. Political Science Lounge, 3rd Floor, Arts and Administration Building, 8 p.m.

DALHOUSIE ALUMNI ASSOCIATION: *Cross Country Ski Workshop.* Dalplex — Room 206 7-9 p.m.

BIOLOGY DEPT. SEMINAR: *Genetics and Biology of post-poned senescence in Drosophila.* M.Rose, Dept. of Biology, Dalhousie University, Room 2970, LSC, 11:30 a.m.

Friday

Nov. 9, 1984

ECONOMICS DEPARTMENT SEMINAR: *The Structure of the N.W. Atlantic Fishery.* Seminar Room 1, 6214 University Avenue, 3:30 p.m.

MATHEMATICS SEMINAR: *Continuation techniques.* Dr. Pat Keast, Dalhousie University, Killam Library, Room 2616, 4-5 p.m.

FRIDAY AT FOUR: *Application of recombinant DNA to Medicine: the interferons.* Dr. Nowell Stebbing, Vice-President, Scientific Affairs, AMGEN (Applied Molecular Genetics), Thousand Oaks, California. Lecture Theatre "A," Sir Charles Tupper Medical Building, 4 p.m.

SCHOOL OF LIBRARY SERVICE LECTURE: *CAN/DOC and Inter-Library Loan.* Mrs. Bonnie Bullock, Head of Client Services, Canada Institute for Scientific and Technical Information, National Research Council, Ottawa. MacMechan Auditorium, 11:45 a.m.

CENTERTAINMENT SERIES: Flutist *Marlis Callow* and guitarist *Doug Johnson* will be performing in the Sculpture Court of the Arts Centre at 12:30 p.m. Admission is free.

AT THE SUB: *The Atlantic Linguistics Conference.* Normand Beauchemin, University of Sherbrooke will be the guest speaker. SUB, Rooms 100.318. For more information contact Terry Gordon, 424-2430.

Sunday

Nov. 11, 1984

ON STAGE AT THE COHN: Amanda Ambrose, American songstress. 8 p.m.

Tuesday

Nov. 13, 1984

ANATOMY DEPT. SEMINAR: *Neurochemical Studies on the Dorsal Vagal Complex.* Dr. R. A. Leslie, Anatomy Dept., Dalhousie University, Room 14B, Sir Charles Tupper Medical Building, 11:30 a.m.

ART GALLERY FILM: *The Music of Man. Part Four. The Age of the Composer.* Part four deals with the period of the great individual composer — Bach, Mozart, Haydn, Beethoven and Schubert. Screenings: MacAloney Room 406 at 12 p.m.; Art Gallery at 8 p.m. Admission is free.

Wednesday

Nov. 14, 1984

DAL FILM SERIES: *Flashdance.* McInnes Room, 7 p.m. and 9 p.m. General admission \$3.

CENTERTAINMENT SERIES: Guitarist, *John Ulrich* will be performing in the Sculpture Court of the Arts Centre at 12:30 p.m. Admission is free.

Thursday

Nov. 15, 1984

INSTITUTE OF PUBLIC AFFAIRS SEMINAR: This seminar is also sponsored by the Union of Nova Scotia Municipalities, Provincial-Municipal Council, Federation of Prince Edward Island. *Enforcement of Municipal By-Laws.* 1261 Seymour St., Nov. 15-16. For more information call 424-2526.

ON STAGE AT THE COHN: *Tom Paxton* one of the most significant contributors to the American folk scene over the years. He is the author of such classics like *Jimmy Newman*, *Bottle of Wine* and *The Last Thing on My Mind*. Rebecca Cohn Auditorium, 8 p.m. Reg. Adm. is \$12/\$11; Students/Sr. Citizens \$11/\$10.

ART GALLERY EXHIBITION: *W.J. Wood: Paintings and Graphics.* Suzanne Swannie, New York; Christine Ross-Hopper, New York are on exhibit at the Dalhousie Art Gallery, Nov. 15 - Jan. 13.

The above three exhibitions will be officially opened on Nov. 15 at 8 p.m. Suzanne Swannie and Christine-Ross-Hopper will be present. 8 p.m. Open to the public.

Friday

Nov. 16, 1984

PSYCHOLOGY COLLOQUIA: *About face: effects of lateral reversal and inversion on recognition memory.* Dr. Stuart McKelvie, Psychology Dept. Dalhousie University, Room 4258/63, LSC, 3:30 p.m.

ON STAGE AT THE COHN: *Nancy White*, three-time Acra Award winner is one of Canada's most prolific songwriters, Rebecca Cohn Auditorium, 8 p.m. Reg. Adm. \$10/\$9; Students/Sr. Citizens \$9/\$8.

LIBRARY SCHOOL SERVICE LECTURE: *Corporate Libraries: Issue and Answers.* Dr. James M. Matarazzo, Associate Dean, Graduate School of Library and Information Science, Simmons College, Boston, MA, MacMechan Auditorium, 11:45 a.m.

PART-TIME STUDIES & EXTENSION: *Career Options.* Nov. 16, 7-10 p.m.; Nov. 17, 9-4:30 p.m.; Nov. 18, 9:30 - 1 p.m. For more information call 424-2375.

CENTERTAINMENT SERIES: First and second year voice repertoire classes, directed by Elvira Gonnella, will perform in the Sculpture Court of the Arts Centre at 12:30 p.m. Admission is free.

Professor studies longevity

The tabloid headlines in Canada, the U.S. and Britain said, "Give up sex and live longer." The stories that followed said that Michael Rose, a Dalhousie biology professor, had conducted experiments proving celibacy and longevity went hand in hand.

The scandal-sheet accounts based their stories on an article Rose wrote for *New Scientist* magazine. But far from exploring the relationship between celibacy and longevity, Rose's article, and the experiments on which it was based, concern postponing the physical deterioration that accompanies old age (senescence).

"We already know how we age," Rose says. "What we have to find out is why."

To find out why, Rose experimented on the theory that breeding animals to have babies later in life would increase the mother's life span.

Using fruit flies as his subject, Rose discarded the offspring born to young mothers. He continued discarding the offspring of the mothers until they became old. At that point, he let the offspring of these older mothers live.

The offspring of the older mothers would in turn have their offspring discarded until they became old. They were then allowed to keep their offspring.

He repeated this with successive generations of offspring born to old mothers. Eventually, the offspring of older mothers began

to have their offspring later in life until, finally, Rose had bred a group of fruit flies who produced more offspring late in life and fewer early in life. These fruit flies lived much longer as well — 30 per cent longer.

When this was done, Rose compared the newly evolved long-living fruit flies and the short-living (normal) fruit flies.

Distinct differences existed. For instance, the long-living fruit flies had a higher lipid (fat) content, and their ovaries were smaller, than the normal short-living flies. The long-living fruit flies also survived longer when they were starved.

Rose is currently working on the next step: isolating the gene (or genes) that allow these flies to live longer. If he can isolate that gene, he will try to inject it into normal (short-living) fruit flies to instantly transform their offspring into the longer-living flies.

If you apply this research to humans, the implications are staggering. A shot in the arm could double the average human life span to 140 years.

But that's still a long way off. The life-lengthening gene(s) of the flies would not necessarily work in mammals, and because they're far more genetically complex than fruit flies, the search could take much longer.

Philosophical questions must be answered as well. Do we want to live for 140 years? — *Stuart Watson*



The implications of biology professor Michael Rose's experiments could eventually effect the future of mankind. (Watson Photo)



"I'm 'lary 'ambling of the 'ousing office," she used to joke. Her Nov. 1 retirement date means she'll be 'lary 'ambling on 'oliday in 'er 'orne on 'ollis Street. (Watson Photo)

Off-Campus housing manager retires

Hilary Hambling, off-campus housing manager, has retired after 17½ years at Dalhousie.

Hambling, who conducted the original study to determine the necessity of an off-campus housing office, set up and ran the office for 11 years.

The office served as more than simply a place to find apartments. Hambling regularly gave advice not only about the housing market, but on how to get along at Dalhousie and in Halifax. Sometimes she became surrogate mother to students away from home and felt comfortable with that role. She often received post cards from students who had long since left Dalhousie. "They'd drop me a line to let me know where they were and what they're doing," she says.

Foreign students regularly turned to her for help. She couldn't help them all but usually found somebody who could.

When Hambling came to Dal in 1967 she went to work in the computer centre showing students how to use keypunch machines. Later, she trained and supervised staff in keytaping.

In 1971 she went to the Registrar's Office when Dal set up its new computer system. She spent three years debugging it.

Later, she became a systems analyst with the Systems Design Group. One of her projects involved a study of the student housing situation. The study concluded that Dal needed an office to co-ordinate off-campus accommodations. When the office was set up she became its first manager.

Hambling and her husband, Ivor, director of family benefits in the provincial Social Services Department, are both taking early retirement. Their immediate plans include a Christmas vacation in Florida and later, a trip to their native England.

See how they run

Dalhousie Theatre Productions kicked off its season in fine, albeit frenetic fashion with its rendition of Philip King's *See How They Run* at Studio 1 in the Arts Centre last month.

The entire three-act farce takes place in 1946 in an English vicarage where characters in clothing varying from underwear to clerical garb make frenzied entrances and exits, sometimes brandishing weapons, sometimes merely brandishing brandy.

Mistaken identity is the key to the controlled chaos overseen by director (and theatre professor) Alan Andrews. This could be classified as a comedy of wearers, with much of the considerable hilarity caused by people dressed in other people's clothes.

The sartorial subterfuge comes to an absurd climax in which four men — an American soldier, a Russian spy and two real clergymen — are dressed as men of the Lord, three of whom might be Vicar Lionel Toop. This leads to the spectacle of a severely disoriented archbishop in his nightclothes, gooseberry leaves adorning his hair, ordering a policeman to "arrest — most of these people."

But while most of the characters don't know for sure who the others are, the audience is kept informed, and the running, jumping and physical assaults never become too difficult to keep up with.

The play begins with Scott Owen playing the solemn and correct Vicar Toop but, as the action unfolds, he becomes confused and frustrated. By the time he appears hopping volubly about the stage in his underwear he resembles a younger, skinnier Basil Fawlty, which is to say he is a funny sight, although not necessarily a pretty one.

His wife Penelope, skilfully portrayed by Sheri Pederson, is a former USO girl, an attractive blonde with a knack for innocent silliness. The beginning of the whole muddled business in *See How They Run* occurs when she "you-hoos" at a soldier in a jeep, not knowing he is an old friend. Clive, the soldier, finds out she is staying at the vicarage but doesn't realize she is married to Toop.

He appears after the vicar has gone out for the evening. Penelope is glad to see Clive, with whom she once appeared in a 42-week run of *Private Lives*. Just for old times sake, she asks him to go to a nearby town to see a production of the Coward play. So the gossip won't have anything to talk about, she gives him Toop's second-best suit to wear. Clive sensibly warns Penelope that this type of crazy stunt always gets characters in trouble in plays.

Penelope poots Clive, saying that things always get straightened out by the third act. This in-joke by playwright King is a

synopsis of the play itself: things do get cleared up by the end of the final act, although not before a fake Communist revolution is staged.

None of the cast, all of whom are Dal theatre students, gives a less than competent performance and some are excellent. Especially good are: John Jay as the befuddled Archbishop of Lax, who gets more than he expects when he visits his niece Penelope and the parson-husband he has never met; Stephen Tobias as the meek Reverend Humphrey, who also picks a bad time to drop in at the vicarage; Trinity Dempster as a meddling, self-righteous spinster who gets thoroughly soused for the first time in her life; and Christine Walker as an air-headed maid.

Sheldon Davis plays the local constable with the proper amount of officious aplomb and Marlin Surette is a suitably menacing Russian. The role of Clive is played by Paul D. Smith.

Studio 1 doesn't have a large stage, especially for the athletic performances necessitated by this play, but Peter Perina created a compact and serviceable set.

EM

SORRY, WE GOOFED

A Notebook item on Page 12 of the Oct. 18 issue of Dal News was incorrect.

The item, headlined *Acadians target of "Laughter"*, reported that the medical school's annual production of "Laughter is the Best Medicine" concerned the history of the Acadians.

The report was in error. The production about Acadian history is in fact called "Who Are The Acadians?" and is a historical documentary stage show comprising film, story, song and dance being produced for the Dalhousie Medical Research Foundation.

The show will be at the Cohn Auditorium on Nov. 8 and 9.

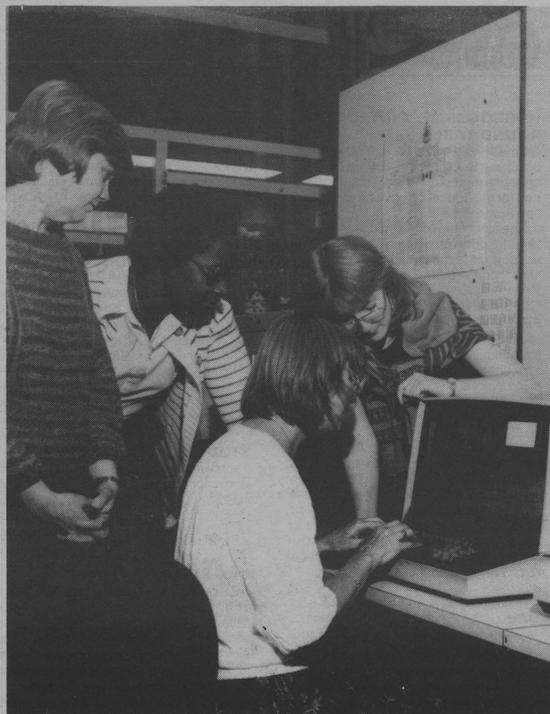
Dal News regrets the error and apologizes to the producers of the show and to Acadians generally.

The comedy production, *Laughter is the Best Medicine*, will be staged Feb. 19 and 20.

In the report, Pearson Institute to help third world (Page 3, Oct. 11 Dal News), it was incorrectly stated that in the first year of the Institute's programs, "more than 300 officials from Ghana will participate in Dalhousie training programs there."

The report should have read, "In Ghana's case, more than 300 officials have taken part in Dalhousie training programs in that country."

Dal News regrets the error.



The School of Library Service recently bought new micro-computer equipment software with help from the Annual Fund. Professor Mary Dykstra (standing, from left) with Edwina Peters-Roberts and Joan Clogg watch as Professor Edie Rasmussen works at the terminal. (Carlos Photo)

Two professors study social change with \$54,658 grant

Dalhousie professors David Braybrooke and Peter Schotch, with the assistance of a two-year, \$54,658 grant from the Social Sciences and Humanities Research Council of Canada, have started a project to explain social change from the perspective of deontic logic.

Deontic logic is concerned with norms or rules and the professors will study strictly enforced rules and laws, as well as norms that are not legally prescribed but tacitly adhered to within a society.

"If you can draw up a systematic description of a society, and characterize it by the chief rules it observes, then you will have given a snapshot of that society," says Braybrooke, of the Political Science department. Since societies are constantly subject to forces of change, it follows that there are periods when conflicting rules govern a given situation.

The main research subject has not been decided, but Braybrooke and Schotch may include the history of the family (developments like the supplanting of arranged marriages by marriages of affection), the history of penology (changes in attitude toward capital punishment) and the rise and development of political parties.

One political example would be that MPs today are under tremendous pressure to toe the party line. In the last century, it wasn't uncommon for individual members to side with the opposition in certain votes.

"The process of moving from inconsistent rules to consistent rules is not well understood," says Schotch, who's with the Philosophy department. He's concerned with how logic of a society might be recast. "The transformation doesn't happen instantaneously."

While Schotch and Braybrooke will complete the project by writing a book, they will first publish shorter works. They will work with research associate Bryson Brown who will, to a large extent, explore historical literature for background material. Brown has completed PhD studies in philosophy at the University of Pittsburgh.

The researchers will consider the hypothetical and historical examples of shifts between rules. Computer programs will be devised for various logics to test their usefulness in application to the examples. Schotch is no stranger to the computer. In a separate project, he's been developing computing programs as instruments for research into logic.

"Sets of rules seem ideally suited to computer modeling and one or more computer programs are sure to result from the investigations of our team," wrote Braybrooke and Schotch in their submission to the council.

Schotch intends to design programs that will change the rules the computer follows during the course of the running of the programs. A consideration will be the parallels between social change and changes in scientific theories.

"Recent work in the philosophy of science has made it clear how untidy (on a simple logical view, which relies on classical contradiction) is the succession of scientific theories, and how much affected by sociological factors," said Braybrooke and Schotch.

"We conjecture that the logic of change between sets of social rules has much to teach about the logic of change between sets of scientific propositions, and shall be looking for chances to follow up this conjecture."

Staff Matters

NEW APPOINTMENTS

Matthew Salisbury, honorary adjunct professor, Department of Geology, Oct. 1, 1984 to Dec. 31, 1984, and professor (research), Department of Geology, Jan. 1, 1984 to June 30, 1990.

Kenneth Abramovitch, assistant professor, Department of Oral Diagnosis and Oral Surgery, Jan. 1, 1985 to June 30, 1987.

Richard B.T. Price, assistant professor, Department of Restorative Dentistry, Oct. 1, 1984 to June 30, 1985.

John F. Jeffrey, assistant professor, Department of Obstetrics and Gynaecology for three years, effective July 1, 1985.

Patricia Jardine, program coordinator, Municipal Administration Program, Institute of Public Affairs, effective Sept. 24, 1984.

Fay Cohen, associate professor, Institute for Resource and Environmental Studies, Sept. 1, 1984 to June 30, 1987.

SABBATICAL LEAVE

T. Jack Murray, Medicine, leave from Jan. 1, 1985 to June 30, 1985.

Kenneth Renton, Pharmacology, leave from Jan. 1, 1985 to June 30, 1985.

Michael Wilkinson, Physiology/Biophysics, Obst./Gyn., leave from Jan. 1, 1985 to June 30, 1985.

Peter R. Camfield, leave from Jan. 1, 1985 to June 30, 1985.

Ford W. Doolittle, leave from July 1, 1985 to June 30, 1986.

PROMOTIONS

Robert Bortolussi, from assistant professor to associate professor, Department of Paediatrics, effective July 1, 1984.

Lawrence C. Dymond, from lecturer to assistant professor, Department of Pathology.

W. Allen Ernst, from assistant professor to associate professor, Department of Urology.

Maurice A. Nanton, from assistant professor to associate professor, Department of Paediatrics.

Arthur J. Hanson, from associate professor to professor with tenure, Institute for Resource and Environmental Studies. Also holds an appointment as associate professor, Department of Biology, Faculty of Arts and Science.

REAPPOINTMENTS

Leslie Haley, chairperson, Department of Education, for a further period of three years, effective July 1, 1984.

James E. Holloway, acting chairperson, Department of Spanish, for a further period of one year, effective July 1, 1984.

Conference on crisis

Dalhousie's Centre for African Studies has organized, with the UN's regional organization in Africa, an international conference on Africa's economic crisis and the response from Friday, Nov. 2, to Sunday, Nov. 4.

With the Economic Commission for Africa, in Addis Ababa, the centre will bring together some of Africa's leading economists, planners and scholars, including ministers from Kenya and Tanzania, and senior officials from the World Bank, UNDP, the International Monetary Fund and Commonwealth Secretariat.

The conference, to be held at the Institute for International Development on Edward St., will discuss "The Lagos Plan of Action" and "Africa's future international economic relations: projections and implications for policy-makers."

Canadian participants will include representatives from the Department of External Affairs, the Canadian International Development Agency, the International Development Research Council, Match and North-South Institute in Ottawa, and regional representatives of non-government agencies such as the Canadian Universities Service Overseas, OXFAM, UNICEF and the Red Cross.

The conference, which is funded by the ECA, CIDA, Commonwealth, Ford Foundation and IDRC, will discuss a range of issues central to Africa's economic difficulties. They include: regional co-operation, food and agriculture, industry and technology, planning and management, women and finance. For more information contact Elfrieda Schneider at 424-3814.

Oxford professor delivers Chute Lecture

Inorganic chemistry has generally been associated with non-living processes but recently scientists have recognized the essential role that inorganic elements play in the chemistry of life. Professor R.J.P. Williams, a distinguished inorganic chemist from Oxford University, said at Dalhousie recently.

Williams, who presented several lectures in the Chemistry Department's Walter J. Chute Lecture Series, has spent much of his time investigating the role of inorganic elements.

In his public lecture, he presented a scenario regarding the evolution of our world which involved, in order of time, major "effort" by the sciences of physics, chemistry and biology.

Physics reigned supreme at first, he said, being responsible for creating the elements and supplying them in various abundances. When the universe had cooled to the point that chemical compounds could form, chemistry took over and determined the availability of the elements through the forms in which the elements found themselves. Biology then began to build the world as we know it, he said, drawing on those elements made abundant by physics and available through chemistry.

Man has independently discovered and used many of the inventions biology has built into nature. Nature, for instance, turns to the element calcium to build hard structures

such as shells and bones. Man does the same when he uses materials like plaster and concrete. Man has discovered that certain elements such as iron, manganese and molybdenum make good catalysts. Catalysts are materials that make chemical reactions easier.

Recently, man has also discovered that nature knew this all along, using these elements in living systems as catalysts.

This should not be too surprising, Williams said, since man and nature must both play by the same set of scientific rules. Nature, however, has been playing the game much longer and has developed complex, finely tuned systems.

Before the lecture's conclusion, Williams noted that we have arrived at a stage in our technology when we can begin to disturb the balance of the chemical elements so carefully maintained by nature through biology. Acid rain, for example, causes an increase in the concentration of aluminum in natural waters. This in turn may disturb certain biological processes. We should not cease to use technology to our advantage, he said, but must exercise extreme care not to disturb those biological systems upon which we depend so completely.

The Chute Lecture Series is presented annually by the Department of Chemistry with financial help from Dalhousie and the Xerox Research Centre of Canada. — Louis Ramaley

Academic Notes

WELCH FOUNDATION SCHOLARSHIP

The Welch Foundation Scholarship is available to a promising scholar who wishes to contribute to the study of vacuum science techniques or their application in any field.

The one-year scholarship begins in Sept. 1985 and is worth about \$10,000 U.S.

Deadline is April 15, 1985. For information and application forms, write: Division of Electrical Engineering, Room 162, Building M-50, National Research Council, Ottawa, Ont., K1A 0R6.

CREATIVE WRITING CONTEST FOR STUDENTS

There's a \$1,000-prize available in the National Literary Contest for University Students for substantial work in fiction, drama or verse.

Deadline for entries is May 15, 1985. Entry forms and rules are available from: The Registrar, University College, University of Toronto, Toronto, Ont., M5S 1A1. Winners will be announced in Nov. 1985.

DAL EPIDEMIOLOGIST EDITS PUBLIC HEALTH BOOK

A Dalhousie epidemiologist, Dr. Franklin White, recently edited a collection of scientific papers entitled "Uses of Epidemiology in Health Services Policy."

The papers included in the book were presented at a symposium held by the Canadian Public Health Association in St. John's, Nfld.

BUSINESS PROFS IN CHINA ON EXCHANGE

John Scheibelhut and Cecil Dipchand of the School of Business are in China for a two-month period teaching courses on international business.

Later this year, Xiamen University in China will send two of its senior faculty members to Dalhousie for three months to observe teaching, research and administrative techniques.

SMITHSONIAN FELLOWSHIPS

Fellowships (1985-86) for research in residence at the Smithsonian Institution are available in various amounts in a variety of fields.

For more information write to: Office of Fellowships and Grants, Smithsonian Institution, Room 3300, L'Entant Plaza, Desk P, Washington, D.C., U.S.A. 20560 or call (202) 287-3271. When applying include area of study and dates of graduate degrees received and/or expected.

FELLOWSHIPS FOR HISPANIC AMERICANS

Canadian or U.S. Hispanics may apply to the Fund for Theological Education for Fellowships for Hispanic Americans Preparing for Christian Ministries. The application deadline is Nov. 20.

For more information write: The Fund for Theological Education, Research Park, 421 Wall St., Princeton, NJ, USA, 08540.

FELLOWSHIPS FOR BLACKS

The Fund for Theological Education offers the Benjamin E. Mays Fellowships for Ministry to blacks citizens of the U.S. or Canada who are at least graduating seniors. The deadline for applications is Nov. 20.

For more information write: The Fund for Theological Education, Research Park, 421 Wall St., Princeton, NJ 08540.

Bryan David Fantie conducted his thesis defence for the degree of Doctor of Philosophy in Psychology on "Operant Conditioning of Central Nervous System Electrical Activity: Implications for Research on Brain Stimulation Reward," on Oct. 31 in the Life Sciences Centre.

JAPAN FOUNDATION GRANTS PROGRAM

Application forms for the 1985 Japan Foundation Grants Program are available from the Embassy of Japan in Ottawa and from Consulates-General throughout Canada.

Eight individual and institutional grant programs are available for fellowships, institutional project support, library support, teaching materials, Japanese speech contest support, training for foreign instructors of the Japanese language, publication and teaching materials. The deadline for applications is Dec. 1, 1984.

IMPERIAL COLLEGE SCHOLARSHIPS

The Imperial College of Science and Technology in London, England, has available a number of scholarships and bursaries in the fields of mining and forestry. Some scholarships are earmarked for Malaysian or Arab students.

Deadlines for applications vary from March 1985 to June 1985. For more information and application forms write: The Registrar, Imperial College of Science and Technology, London, England, SW7 2AZ.

THEOLOGICAL EDUCATION FELLOWSHIPS AVAILABLE

The Fund for Theological Education offers North American Ministerial Fellowships for citizens of the U.S. or Canada who are at least graduating seniors and who are prepared to enrol in a Masters of Divinity program at a theological school in the fall following the awarding of the fellowship.

Individuals must be nominated by a minister, member of a faculty or administration or former Fellow of programs administered by The Fund and send applications no later than Nov. 20 to Princeton. For more information write: The Fund for Theological Education, Research Park, 421 Wall St., Princeton, NJ 08540.

DEXTER PRESENTS LECTURE

Lewis Anthony Dexter, who Dalhousie's Political Science Department describes as "one of the most notable and most notably versatile American political scientists," will deliver a lecture at 8 p.m., Nov. 8 in the political science lounge on the third floor of the Arts and Administration Building.

The lecture, "Why Do Public Virtues Lead to Public Vices?" is sponsored by the Departments of Political Science and Public Administration.

Dexter, an expert on the activities of the American congress, congressmen and the extent to which lobbying influences them, was one of three authors or a prize-winning book, *American Business and Foreign Policy*. He also wrote *The Sociology and Politics of Congress and How Organizations Are Represented in Washington*.

Dexter, who teaches at the University of California at Berkeley and Johns Hopkins University in Baltimore, has also been active in politics. He's served as advisor to two Massachusetts governors, a governor of Puerto Rico and, as a professional consultant, in many U.S. political campaigns.

MEDICAL REFRESHER COURSE

About 150 Atlantic region doctors are expected to attend the 58th annual Dalhousie Refresher Course from Nov. 19 to 21 to update skills and learn the latest research developments in medicine.

Topics to be reviewed include aspects of gastroenterology, inflammatory bowel disease in adults and children, and new methods of investigation and diagnosis.

Workshops will be held concurrently in such topics as computers in medicine and ophthalmology.

Dr. David Roy, director of the Centre for Bioethics, Montreal, will deliver the John Stewart Memorial Lecture on "Ethics at the Extremes of Life."

HORROCKS APPOINTED TO ROUND TABLE

Norman Horrocks, director of the School of Library Service, has been appointed to an eight-member Round Table on Support for the Education of Library/Information Professionals.

The aim of the round table is to discuss how the private sector might increase its support of education programs in the library and information field.

CIBS ANNOUNCES MBA FELLOWSHIPS

Dr. Alan M. Rugman, Director of the Centre for International Business, is pleased to announce the awarding of student fellowships to seven second-year MBA students: Mary Kay Black, Louis Cavaliari, Bernard Leblanc, David Loewen, Ian Miles, John Oudyk, and Greg Ross.

The fellowships which total \$24,000 are a gift from the Department of External Affairs, in Ottawa. They aim to promote an understanding of international business in Canadian management educations. During the term of the award the students conduct research assistance in international business projects which Business School faculty members supervise.

UN DELEGATE TO SPEAK AT DAL

"Africa's Economic Crisis and the Lagos Plan of Action" is the title of a talk by Adebayo Adedeji, executive secretary of the United Nations Economic Commission for Africa, to be given at 3:30, Oct. 19 in the MacMechan Auditorium.

The talk is the second in a series on international development and is sponsored by the Centre for Development Projects, Centre for African Studies and the International Student Office.

RELIGION CHAIRMAN PUBLISHES BOOK

Ravi Ravindra's book "Whispers from the Other Shore: A Spiritual Search — East and West" is available in the Dal bookstore in the SUB.

The book deals with the differences (and commonalities) between Judeo-Christian and Indian traditions and is an attempt to confront the two challenging questions: "Who am I?" and "Will I be given salvation from above or from within?"

ECONOMICS PROFESSOR DELIVERS PAPER

Zbigniew A. Konczacki, an Economic Professor at Dal, delivered a paper on "Society, Economy and Environment in Eighteenth-Century Poland," at the Canadian Society for Eighteenth-Century Studies Conference in Winnipeg last month.

SINGAPORE SCHOLARSHIPS

The National University of Singapore is offering renewable research scholarships towards a master's or doctor's degree. Value of the scholarships is roughly \$1,500 to \$2,000 (CDN) a month.

For further information and applications write to: Peter Lim, Director, North America Office, National University of Singapore, 61 West 62nd St., Suite 4J, New York, NY, USA, 10023.

STUDY IN AUSTRALIA

If you want to study environmental studies, landscape architecture and urban planning in Australia, write to: The Chairman, School of Environmental Planning, University of Melbourne, Parkville, 3052, Victoria, Australia.

NRC RESEARCH ASSOCIATESHIPS AVAILABLE

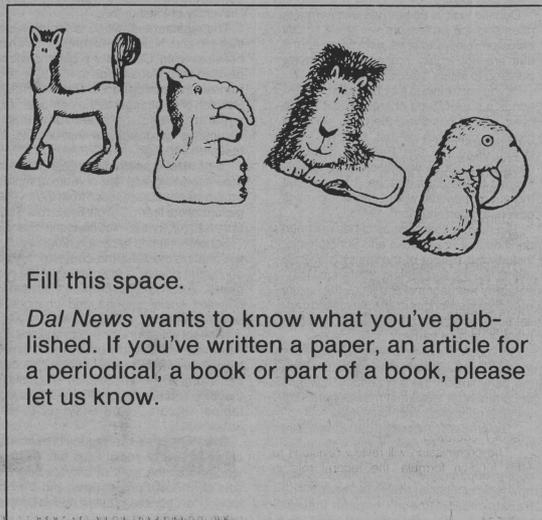
The National Research Council has research associateships available to holders of PhD's in natural sciences or Masters in engineering. Initial appointments are for two years and subject to renewal. Travel allowances will be provided.

Deadline for applications is Dec. 15, 1984. For applications write: Research Associates Office, National Research Council of Canada, Ottawa, Ont., K1A 0R6.

TERRY FOX HUMANITARIAN AWARDS

Scholarships valued at \$3,000 are available for studies at any Canadian university. The awards are available to students who have demonstrated the highest ideals and qualities of citizenship and humanitarian service while in pursuit of excellence in their academic, amateur sport, fitness, health, community service and related endeavours.

The awards are available for up to four years or completion of a first degree. Deadline for applications is Feb. 1, 1985. For applications write to: Terry Fox Humanitarian Award Program, 711-151 Sparks St., Ottawa, Ont., K1P 5E3.



Fill this space.

Dal News wants to know what you've published. If you've written a paper, an article for a periodical, a book or part of a book, please let us know.

Beyond Dalhousie

INDIAN COLLEGE RECEIVES PROVISIONAL AUCC MEMBERSHIP

The Saskatchewan Indian Federated College received provisional membership at the Association of Universities and Colleges of Canada at its annual meeting in Saskatoon in October.

The college, which is federated with the University of Regina, operates under the jurisdiction of the Federation of Saskatchewan Indian Nations.

Its programs include bachelor degrees in Indian Studies, Indian art, Indian education and Indian social work.

BATES ABANDONS S.A.T. AS ADMISSION REQUIREMENT

Bates College in Lewiston, Me., has dropped Scholastic Aptitude Test scores as an admission requirement, *The Chronicle of Higher Education* reported in an October issue.

After several years of study the faculty voted by a 2-to-1 margin to require three achievement tests instead of the S.A.T.

CMEC APPOINTS DIRECTOR GENERAL

Dr. Harry K. Fisher, Ontario's Deputy Minister of Education and Deputy Minister of Colleges and Universities, has been named director general of the Council of Ministers of Education, Canada effective Nov. 1.

SCIENTISTS FIND NEW EVIDENCE ON AIDS

Scientists at the University of California at Davis, Harvard University and the National Institutes of Health have found evidence to suggest that acquired immune deficiency syndrome (AIDS), may be transmitted through saliva, *The Chronicle of Higher Education* reported in October.

But top officials with the U.S. federal government played down their reports saying the overwhelming body of scientific evidence developed on the disease so far had demonstrated that AIDS is transmitted through blood, blood products and semen.

THE STRIKE AT YALE

About 1,800 striking clerical and technical workers at Yale University in New Haven, Conn., continued their walkout with no new negotiations scheduled, *The Chronicle of Higher Education* reported in October.

In a strike-related incident, New Haven police arrested about 200 of the 1000 striking workers who staged a sit-in outside the house of Yale President A. Bartlett Giamatti.

NEW AUCC V.P.

McGill University principal David L. Johnston is the new vice-president of the Association of Universities and Colleges of Canada.

He was elected vice-president after serving the first of a two-year term as a Quebec universities representative on the AUCC board of directors. Concordia University rector Patrick Kenniff will replace him on the board.

Dal president Andrew MacKay begins his second year as AUCC president.

QUEBEC UNIVERSITIES' FINANCING UNDER REVIEW

A Quebec parliamentary commission will hold a three-day public hearing into the financing of Quebec universities.

The Education and Manpower Commission will hear submissions from the Ministry of Education, the Conseil des universités, provincial students' associations, the Conference des recteurs et des principaux des universités du Québec and the provincial faculty federation.

The commission will review revisions to the funding formula, the federal role in financing Quebec's universities and alternative funding sources (from *Notes from AUCC*).

ENROLMENT LEVELS OFF

An informal survey of universities across Canada shows a national increase of 2.4 per cent in full-time enrolment, down from five per cent in 1983-84. These are preliminary figures.

The highest increase is 16 per cent in Newfoundland, however, that is due to the moving of grade 12 to the provincial school system, causing a disproportionately low number of first-year students last year.

Elsewhere, Quebec shows a four per cent increase; Alberta, three per cent; the Maritimes, 2.3 per cent; Ontario 1.6 per cent; Saskatchewan one per cent; and Manitoba

0.4 per cent. British Columbia enrolment dropped four per cent.

The survey also indicates a moderate increase in part-time undergraduate enrolment, except in Ontario and Quebec where there has been a slight drop. Saskatchewan's part-time undergrad enrolment increase by 13-per cent, (from *University Affairs*).

ROMANOW DISCUSSES ACCESSIBILITY

Roy Romanow, former Attorney General and Deputy Premier of Saskatchewan, called for closer co-operation between the

federal and provincial governments when framing policies on the future development of Canadian universities, at the general meeting of the AUCC at the University of Saskatchewan last month.

At the meeting on "Accessibility and Canadian Universities" Romanow suggested that the Council of Ministers of Education, Canada could encourage greater public participation in the development of higher education policies by holding public hearings and becoming more accountable to provincial governments and Parliament.

The conference marked the 75th anniversary of the University of Saskatchewan.

Sports Shorts by Craig Munroe

HOCKEY

The hockey Tigers have two home games this weekend. On Saturday (Nov. 3) the Tigers host the defending AUAA champions, the University of New Brunswick, and on Sunday (Nov. 4) they host the St. Thomas Tommies. Both games begin at 2 p.m. at the Dalhousie Memorial Arena.

VOLLEYBALL

The men's volleyball team will kick off the AUAA season this weekend as they host an

AUAA tournament at the Dalplex. Action begins at 8 p.m. on Friday (Nov. 2) and picks up again on Saturday (Nov. 3) at 12 noon. All four AUAA teams are taking part.

The women's volleyball team are also at home this weekend. They host UNB on Saturday at 7 p.m. and Sunday at 2 p.m.

SWIMMING

The swim team will host a dual meet at the Dalplex pool this weekend. The women Tigers will be gunning for their 43rd consecu-

tive victory in AUAA dual meet competition. They'll oppose UNB and Memorial on Saturday.

BASKETBALL

Both Tiger basketball teams are on the road this weekend. The men's squad will visit Acadia to defend the Tip-Off Tournament title they won last year, while the women will be in Maine to take on the University of Maine (Orono) and the University of Southern Maine in exhibition play.



With mid-terms just around the corner, it's all Greek to these Dal students. (Chislett Photo)

Notebook

CPR COURSE DATE CHANGED

A one-day course Dal is offering in cardio-pulmonary resuscitation has been changed to Nov.6 from Oct.30. It will still be held in Room 314 of the SUB.

SPEAKERS BUREAU

The Dalhousie Speakers Bureau is a community service offered by the university to groups and associations in the metro area.

It provides speakers on a wide range of topics, from time management to wine appreciation.

For further information on the Speakers Bureau call 424-2517.

TRITT IN CONCERT

Dal Music Department professor William Tritt will perform a solo recital at 3 p.m., Nov. 4 at the Rebecca Cohn Auditorium.

DENTISTRY HELD CONFERENCE

Last month the Faculty of Dentistry hosted a conference on the role of the university in delivering continuing education to dental practitioners in Atlantic Canada.

Dr. Michael Cross, Dean of Continuing Education, discussed "Continuing Education: A new commitment." Alan Thomas, of the Ontario Institute for Studies in Education, from Toronto, served as a facilitator to bring the university and the professional associations to a better understanding of their roles to make better use of their resources.

MABLEY ELECTED TO SOCIETY BOARD

The Development Office's director, John Mabley, has been elected to the board of the Canadian Society of Fund Raising Executives.

The CSFRE monitors standards of professional conduct in fund raising and provides professional development opportunities.

DAL WOMEN INVITED TO RECEPTION

A workshop concerning female athletes' awareness of issues in women's sports will be held at Dal Nov. 16-19. A reception on Nov. 17 in the Faculty Club is open to all women faculty members.

MABLEY TO GO TO PHILANTHROPY CONFERENCE

Director of Development John Mabley, will be one of five keynote panelists for the opening plenary session of the Toronto-based Canadian Centre for Philanthropy's fifth annual conference Nov. 13.

Mabley has been an active member of the Centre for Philanthropy since its establishment in 1979.

He and his co-panelists will speak on the subject, "Trends and Attitudes Influencing Canadian Philanthropy."

The conference is expected to attract over 300 delegates from across the country representing all branches of the charitable field.

WORKSHOP IN EARLY MUSIC

A workshop in early music performance will be held in Room 111 of the Dalhousie Arts Centre on Thursday, Nov. 8 at 7:30. The public is invited. Admission is \$5. In conjunction with the workshop, "New World Consort," a four-person early music group will perform Friday, Nov. 9, at St. George's (Round) Church at 8 p.m.

ATHLETES OF THE WEEK

Darren Cossar, a third-year arts student and goaltender on the Tigers hockey team is Dalhousie's male athlete of the week.

Cossar was outstanding in Dalhousie's third annual Lobster Pot Hockey Tournament and was selected the tournament's all-star goaltender.

A Dartmouth native, Cossar is a former AUAU all-star and Tiger rookie of the year.

The female athlete of the week is Claudette Levy, a fourth-year physical education student. She is the goalkeeper on the Dal women's field hockey team. Levy, who is from Halifax, recorded two shut-outs in a recent competition to bring her year's total to seven shut-outs in 10 games. She has 11 shut-outs in 14 AUAU regular season games, allowing only five goals in that time.

NATIONAL COACH AT DALPLEX

The first full-time coach for Canada's National Women's Basketball team, Wayne Hussey, visited Dalplex last month to conduct a tryout camp for girls from 14 to 16. He also ran a clinic for the Dal Tigers and other interested players.

Hussey, a former coach of the Junior National Team and assistant coach of the National Team, is conducting a cross country search for prospective talent for the national program.

GRAD HOUSE NOW OPEN SUNDAYS

The Grad House is now open on Sundays between 1 to 6 p.m. Tea, coffee, softdrinks and snacks will be available at the bar.

ALUMNI SKI WORKSHOPS

Two workshops on skiing are being held for Dal alumni in Room 206 of the Dalplex.

The first is on alpine skiing at 7 p.m. on Nov. 7. The instructor is Micky Hindlet of the Canadian Ski Patrol.

The second is on cross country skiing at 7 p.m. on Nov. 8 with instructor Ike Whitehead of the Nova Scotia Cross Country Ski Association.

There is a \$10 fee for each course.

VOLUNTEER TUTORS WANTED

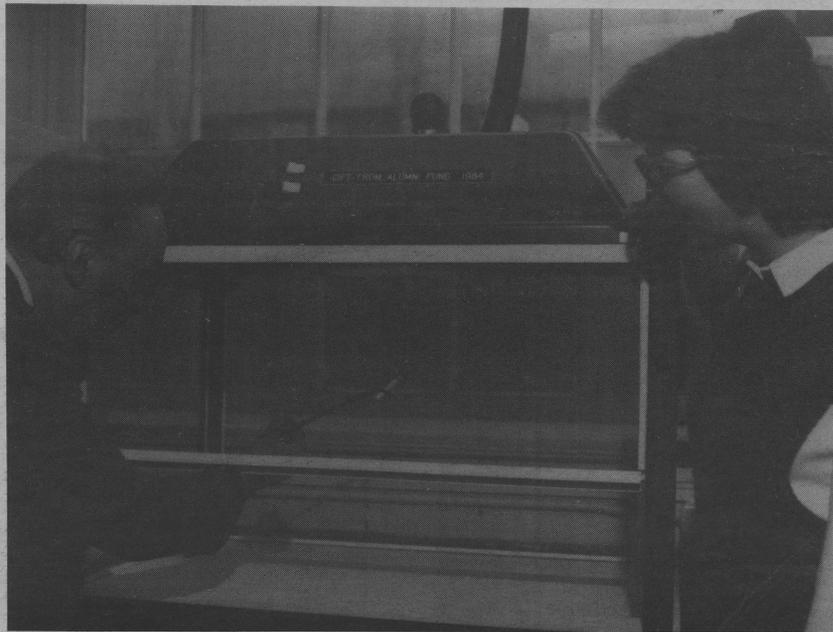
The Veith House Outreach Tutoring Service is looking for volunteer tutors to assist students in elementary and junior high school grades in various subjects. For more information call 453-4320.

PARAPLEGIC ASSOCIATION REUNION

The Canadian Paraplegic Association, Nova Scotia Division, holds its annual reunion dinner on Nov. 2 at 6 p.m. at the Lord Nelson Hotel.

Special awards to be presented include the Arthur D. Stairs Award and the Dr. James W. Reid Memorial Award, presented to a paraplegic and a quadriplegic who have demonstrated outstanding courage, persistence and initiative in overcoming his or her disability.

The public is invited to attend. Tickets can be purchased by contacting the CPA office at 5599 Fenwick St. (423-1277).



Professor Gerry Dauphinee holds a cigarette to the Chemistry Department's new portable fume hood — a gift from the Annual Fund — to show how the device vents out smoke while lab instructor Karen Thompson looks on. The \$2,000 hood vents fumes to the outside. Undergraduate students will use it in their labs. (Carlos Photo)

Classified

If you have something to sell or rent, or if you want to buy something, this space is reserved for you. *Dal News* will list your classified ad free of charge. Just mail us your submission (please keep it as short as possible) and we'll run it (space permitting) for one issue. Send it to: Dal News, Public Relations, Old Archives Bldg., Dalhousie University, Halifax, N.S. B3H 3J5. Please include phone number,

which we'll publish only on request. Sorry, we can't accept placements over the phone.

FOR SALE: Buescher clarinet, excellent condition. Call 835-2821.

FOR SALE: High quality computer-prepared graphic printing service. Your thesis or publication can be presented with clean computer-produced plots. Fast turnaround time,

very high quality. Negotiable prices for bulk jobs. Please call Don Weld at 429-8300, ext. 140.

FOR SALE: Large upright Le Sage piano and stool. \$850. 466-2010.

FOR SALE: Amethyst, garnet and tiger eye bead necklaces. 18" - \$89 each. See S. Parkh, Room 3015-17LSC. No phone calls please.

WANTED: One or two bedroom unfurnished accommodation for faculty member and wife from Dec. 1. Up to \$700 per month (excl. utilities). Must allow pets (cat). Contact: John Connelly, Psychology, Univ. of British Columbia, Vancouver, B.C. V6T 1W5 (604) 228-5906.

FOR SALE: Honey \$2 per 1,000 g. Available in Room 125 (Awards Office), A and A Building.

FOR RENT: Furnished 3-4 bedroom faculty house. Jan. 1 to July 1, 1985. \$1,000/month plus utilities. Phone 425-5848 (H), 424-3187 (W).

FOR RENT: Furnished or unfurnished two bedroom house. Late Dec. 1984 to June 1985. One block from Dal. \$700/month plus utilities. References required. Call Mary Dykstra at 424-3656 or after 6 p.m. at 422-9283.