

Monkey business with Morningside MacDonald?



What kind of monkey business is this? Actually it's CBC's Bob MacDonald, on campus last week from Toronto's Morningside show, doing an interview with Dr. A. Love, director of the Animal Care Centre. The young furry creature just hanging around back there is not a monkey, either, but one of the baboons under study in the Faculty of Medicine.

MacDonald will be doing a regular item on Morningside called *What's Cooking in Science*. While at Dalhousie he interviewed professors Max Cynader, Penti Rautaharju, and David Regan.

The CBC Radio item is one of several media events now taking off and looking to

Dalhousie for material. The Saturday favorite, *Quirks and Quarks* continues with its weekly half hour show. David Suzuki's efforts on behalf of science and the media are well known. TV Ontario has also arranged with the British publication *New Magazine* to produce a TV series called *The Leading Edge*.

In the past week, representatives from all these shows have been in touch with the Public Relations Office looking for story ideas in science. If you have any, please call Roselle Green at 424-2517.



Dalhousie News

Volume 14, Number 1, Sept. 22, 1983

Dalhousie joins industry in first Canadian marine fibre optics project

Dalhousie University has become part of the first Canadian effort to develop the marine uses of fibre optics. A new company, Focal Marine Limited, formed with the federal government assistance, has combined the research and engineering expertise of Dalhousie scientists and Sermic Limited.

The government's Ocean Industry Development Office will provide \$1.5 million over five years to Focal Marine Limited for design, installation and support services in fibre optic technology and to develop devices to adapt existing technology to the marine environment.

Focal Marine has, in turn, entered into an agreement with the Physics department of Dalhousie to support and develop fibre optics research at the university. Dalhousie has established an applied fibre optic research laboratory under the direction of Dr. Barry Paton, who has done extensive pioneering work in the field.

Agreements were signed Monday between the federal government and Focal Marine and between the company and Dalhousie. Signatories were Senator Henry Hicks, on behalf of Ed Lumbley, Minister of Industry, Trade and Commerce and Regional Economic Expansion; Gordon Archibald, Chairman of the Board of Governors of Dalhousie; and Hugh Macpherson, President of Focal Marine Limited.

"Focal Marine provides an excellent example of the kind of institutional/industry collaboration that will put Nova Scotia in the forefront of ocean industry development," Mr. Lumbley said.

The new company will create 15 new high-technology jobs and a large number of spin-off jobs, according to Focal Marine President Hugh Macpherson. The company is already engaged in contract studies and development for industry and government.

"Focal Marine will also help to retain talented physicists and engineers in Nova Scotia, to work on this new and exciting technology," said Mr. Archibald. Ocean industry support of \$1,497,000 for Focal Marine will assist with capital and operating costs to enable the company to do applied research in the use of fibre optics in marine products and systems.

The market for fibre optics systems has been estimated at up to \$1 billion by 1986 and, over the next four years, a growth rate of 41 per cent is expected. The technology has reached the point where an explosive growth in applications is imminent and a large portion of that growth is expected in the ocean industries.

Applications are expected in military, marine, scientific and offshore oil and gas activities.

"The research and engineering excellence which Dalhousie and Focal Marine bring to this venture have enormous potential to extend Canada's leadership reputation in fibre optics technology," said Mr. Lumbley.

More on Dalhousie and Focal Marine on page 5.

MacKay, Mugabe meet



Robert Mugabe, Prime Minister of Zimbabwe, was in Halifax last week and met with Dalhousie officials regarding the university's *Management for Change* program. Dalhousie, with financial assistance from the Canadian International Development Agency, has provided more than \$1 million in help to the African republic (see story p. 4). Mugabe is shown (on right) at the home of the Lieutenant Governor of Nova Scotia with Dalhousie professor Dr. Ian McAllister (left) and president Dr. W. Andrew MacKay. (Photography Services photo - Carlos)



Dal United Way 83

Your participation is a community investment

See story on p. 10

We asked you

As *Dal News* starts out a new year with a new look, one of our major aims is to find out what you, the Dalhousie community, are thinking about and have to say. With that in mind, we are introducing two new columns: "You Asked Us" and "We Asked You." If you have a complaint, are wondering if flies have eyes or need some help with an income tax form, write *Dal News* and we will find someone on campus with an answer. As well, we will be out with cameras and notepooks in hand to ask staff, faculty and students their opinions on a variety of subjects. This week, we talked with students as they registered for classes in the A & A building. We asked them the following questions:

Why have you come to university? Why did you choose Dalhousie? What do you think of Dal's registration process?



John Sewuster (above), from Charlottetown, is a first year Commerce student. After spending two years at a business college in Charlottetown, he decided to come to university because he did not have enough clout with the education he had. He says he needed more to be able to compete in the job market. He came to Dalhousie "because of its reputation and because I heard it had a good program." On the subject of the registration process, he says "pre-registration was excellent. I did it in June. When I came back I was really glad that I had registered."



Annie Bretschneider (above), from Montreal, came to Dalhousie to take Physical Education but switched to Arts. She is entering her second year. She chose university because "I figured I wasn't going to go anywhere working. You need a good job to make enough money to buy the things you want."

Annie says she chose Dalhousie because she met someone out west who recommended the Physical Education program. She describes registration as "a lot of B.S. You register and you get chased all over the place. There is too much red tape to go through."

Linda Smith (at right), from Chetzetcook, is enrolled part-time in her third year of the Bachelor of Social Work program. She is at university because she "was interested in taking a Social Work course. I wanted a change at work. I'm a mature student and a registered nurse in Nova Scotia." As Dalhousie has the only program in the area, she says her choice was easy. She describes the registration process as "horrible" and suggests they expand it by making it two weeks instead of one. She also says class approvals should be centralized and professors more accessible.

Arris Lau (below), from Hong Kong, is a first year Arts student. He wanted to come to university to further his studies and to gain more knowledge. He says he chose Dal because it is a good university and because tuition fees for foreign students are less expensive here than they are in Ontario universities. Arris says he found the registration staff "friendly and very helpful." The registration process took less time than he expected.



Mike Daniels (below), a first year Science student from Lower Sackville, says he came to university to further his education, to meet people and to train for a career. He selected Dalhousie because he felt it had the best Mathematics program. As for the registration process, he says "there is a big run around and hassles. There are a few things that could make it run more smoothly, like a better information system."



The Public Relations Office wanted you to know how often Dalhousie makes the news, so we put up a bulletin board in the main foyer of the A & A building. Next time you are passing through the A & A, stop and have a look at the top stories of the week, as printed in local and national newspapers and magazines. (Photography Services photo — Carlos)

Have we got News for you!

Dal News, Dalhousie's publication for faculty, staff and students! *Dal News*, formerly *University News*, has a whole new look this year, and a new approach which we hope you, the readers, will find useful and enjoyable.

Dal News is your newspaper, full of news and features about Dalhousie and Dalhousians. This year *Dal News* will be reaching out to you, members of the Dalhousie community, with a myriad of stories and columns including "Dalhousie People," featuring you and your achievements; "Notebook," a pot-pourri of news and announcements you will want to know about; "What's on at Dalhousie," a comprehensive listing of lectures, entertainment and events available to Dalhousians and members of the general public; "Academic Notes," featuring a listing of PhD orals, grant application deadlines, publication notices and award notices for your

information; "Profile," an in-depth look at one of you, your job, your hobbies; "Beyond Dalhousie," a look at the academic world a little further afield; "TrixDal," Dalhousie's own version of trivial pursuit; and much more (look around through these pages for some samples).

Dal News will be published every two weeks from now until the end of term next April, with a break at Christmas (see the full publication schedule below), and will be delivered to most paid members of the Dalhousie community in the internal mail system (students are invited to pick the paper up at one of the many bulk drop off points available around campus). If you're a paid employee of Dalhousie who is not receiving your copy of *Dal News*, please inform us by calling 3643.

So...

Do you have news for us?

So you just heard about a member of your department who is retiring after 25 years of service, or that big research grant you applied for finally came through. Why not share the news with your fellow Dalhousians? If you've got something you think other people would like to hear about, call us at *Dal News* and we'll help you spread the news to the whole community. Remember, submissions must meet our deadlines, so if your news has a date on it, you should make note of the following:

If you're interested, why not become a reporter for *Dal News*? All it involves is being a regular contact for the paper, and remembering to "think news" while involved in the day-to-day activities in your office, lab or classroom. Maybe you'd even like to write for us? Submissions are always welcome, but the editor reserves the right to accept or reject them and to edit them for style, spelling and grammar.

Remember, *Dal News* is your newspaper, so...

| VOL. 14 # | DATE | COPY DEADLINE |
|-----------|---------|---------------|
| 1 | Sept 22 | Sept 15 |
| 2 | Oct 6 | Sept 29 |
| 3 | Oct 20 | Oct 13 |
| 4 | Nov 3 | Oct 27 |
| 5 | Nov 17 | Nov 10 |
| 6 | Dec 1 | Nov 24 |
| 7 | Dec 15 | Dec 8 |

Think news, Dal News

Dalhousie University, Halifax, NS
Dal News, September 22, 1983

President makes senior appointments

A number of senior appointments were announced at Dalhousie during the summer by the president, Dr. W. Andrew MacKay.

At the vice-presidential level: Dr. Alasdair M. Sinclair has been appointed vice-president (academic) and Dr. David M. Cameron has been appointed vice-president (planning and resources). Dr. Gerald A. Klassen, formerly vice-president (academic and research), will continue on a half-time basis as vice-president (research) and will return to teaching and research in the Faculty of Medicine. Vice-president Robbie Shaw continues to serve with the new title of vice-president (finance and development).

The appointments were effective July 1. Drs. Sinclair, Cameron and Klassen will each serve for the current academic year.

Dr. MacKay said he was pleased that Drs. Sinclair, Cameron and Klassen were prepared to serve Dalhousie as vice-presidents for one year, while each would be continuing with teaching and research responsibilities in his own faculty.

Dr. Sinclair has just completed a three-year term as the first elected chairman of the Senate of the university. He will be responsible generally for academic policy and programs, their planning, evaluation, staffing and budgeting, as well as academic relations with other institutions, academic support services, and part-time studies and extension. He has been with Dal since 1961.

New director of PR, development also appointed

The appointment of Richard J. Bowman as director of public relations at Dalhousie University has also been announced by the president.

Mr. Bowman, whose appointment is effective immediately, joins Dalhousie from Trent University in Peterborough, Ontario, where from 1968 he served in a number of administrative positions, latterly as director of community relations.

Dr. MacKay said that Mr. Bowman, whose wide-ranging background in university

Dr. Cameron, who has served in the Office of the President for three years as executive director, policy and planning, will continue responsibility for co-ordination of long-range planning and for reporting to external agencies, and will assume responsibility for long range budget planning, for institutional information systems, for personnel planning and administration and for computing and communication services. He joined Dal in 1969.

Mr. Shaw will continue responsibility for management of financial planning and services used for physical plant operations and university services. In addition, he will assume major responsibilities for development and for student, alumni and community relations. He joined Dal in 1980.

Meanwhile, a search committee has been appointed to consider applications and nominations for the position of vice-president (academic and research).

Dr. Klassen will continue responsibility for advice on research policy and planning, administration of research budgets, which now exceed \$16 million annually, and for relations with external research agencies and for international development research activities. He has been at Dal since 1977.

At the Deans' level: Dr. Norman Horrocks, Director of the School of Library Service at Dalhousie since 1972, has been appointed Dean of the Faculty of Administrative Studies; and Dr. J. Donald Hatcher has

been reappointed Dean of the Faculty of Medicine at Dalhousie for a three-year term. Dr. Horrocks' term is for up to one year, pending the results of a review of the Faculty of Administrative Studies. The Faculty consists of the Schools of Business Administration, Public Administration, Social Work and Library Service.

Lorne Ferguson, who was manager of administration for Dalplex for two years, has been appointed director of management services for the university.

According to Robbie Shaw, vice-president (finance and development), Mr. Ferguson will be responsible for administrative planning in non-academic areas, including human resources, for operational audits of non-academic units, and for special administrative support. He will also be responsible for the recently established savings suggestions program.

Mr. Ferguson, who was born in Enfield, Nova Scotia, received his B.Comm. from Saint Mary's University in 1971. A business administration major, he worked in the federal public service in several branches, being regional manager of administrative services for the Nova Scotia region of Employment and Immigration before joining Dalhousie in 1981.

At Dalplex, Mr. Ferguson developed a business plan, implemented a new organizational design in several automated sys-

tems and oversaw a market research survey.

Mr. Ferguson is a member of Halifax Board of Trade, the Heritage Trust, and is a director of the Dalhousie Faculty Club.

John F. Chappell, who was administration and materials manager with the City of Fort McMurray, Alberta, has been appointed purchasing manager at Dalhousie.

Robbie Shaw, vice-president (finance and development), said that Mr. Chappell will provide centralized planning for the whole of the university. "He brings to Dalhousie, as a university graduate and a professional purchasing manager, the kind of experience that is required."

Mr. Chappell, who was born in Halifax, served for four years with the RCMP in British Columbia and Halifax before taking his B.Comm. at Dalhousie.

From 1977 to 1978 he was a research assistant at the Canadian Marine Transportation Centre in the Dalhousie School of Business Administration, from 1978 to 1979 staffing officer at Camp Hill Hospital, and from 1979 to 1981 director of materials management/purchasing at Camp Hill.

In 1979 he was appointed administration and materials manager for the City of Fort McMurray, Alberta.

Mr. Chappell is a member of the Purchasing Management Association of Canada.

See New administration, p. 6



Dr. Alasdair M. Sinclair



Dr. David M. Cameron



Mr. Richard (Dick) Bowman
Dal News, September 22, 1983



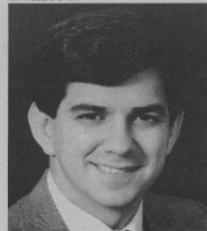
Dr. Gerald A. Klassen



Mr. John Mabey



Mr. Robbie Shaw



Lorne Ferguson



Dr. Norman Horrocks



John Chappell



Representatives from eight countries met recently at Dalhousie's new Centre for Marine Geology to discuss plans and funding for one of the Centre's major projects — core drilling on the island of Cyprus. (Carlos)

New Centre for Marine Geology

Geologists from China, Argentina, India and Zimbabwe will be working for the next two months at Dalhousie's new Centre for Marine Geology.

The Centre for Marine Geology, operating under the direction of Dalhousie geologist Dr. James Hall, is made up of 35 geoscientists, technicians and graduate students who are involved with many aspects of ocean research at Dalhousie. According to Dr. Hall, the Centre, which was formed last spring, will enable these people to work from joint funds on projects, some of which are international in scope, and therefore will act as a focus for the expansion of research in marine geology. The Centre will also permit advanced training of third world geologists in marine geology, he says.

The four international geologists are coming to the Centre to use both its facilities and its staff's expertise as they carry out sophisticated analytical work related to one of its major projects — research drilling in the ancient ocean crust of the island of Cyprus.

The Cyprus project, which has been under way for several years and which is estimated to cost \$2.5 million, has brought together 100 scientists from many countries to study geological phenomena usually found on the ocean floor (Cyprus represents a rare geological phenomenon where a piece of the ocean floor has been pushed up, intact, to become an island). In early September, representatives from eight countries associated with the Cyprus project met in Halifax to discuss core drilling

operations for next May. Dr. Hall says the group also discussed the need for further funding, and is now applying to agencies in various countries for money to complete the Cyprus project.

Dr. Hall says the Centre also has one of the best groups of micropaleontologists in Canada. They are currently working on a project to date drill holes for petroleum companies involved in offshore drilling on the east coast of Canada. Although most oil companies have their own research teams which are involved in day-to-day operations, Dr. Hall says the Centre's micropaleontologists are able to provide valuable background material through their study of small fossils brought up during drilling.

During the next year, this group will also be studying fossils on the coasts of Portugal and Morocco, pieces of land which were once a part of Canada's east coast.

Ronald Boyd, a geoscientist with the Centre, is working with the east coast offshore industry studying the movement of sand. Oil is often found in fossil sand bars, Dr. Hall explains.

The members of the Centre for Marine Geology are also concerned with the development of marine instrumentation, and to that end will be seeking opportunities for further interaction with scientists at other research institutions.

The new Centre is operating under a budget of \$1.25 million. Jane Barrett is co-ordinator and Margji Pavlovski is training program co-ordinator. SW

\$1 million Dalhousie expertise for Zimbabwe

Dalhousie's president, Dr. W. Andrew MacKay, met with Zimbabwe Prime Minister Robert Mugabe last week to discuss further associations between the university and the young African republic. Dalhousie University, with financial assistance from the Canadian International Development Agency (CIDA), has provided more than \$1 million worth of help to Zimbabwe in recent years.

Zimbabwe was the first country to take advantage of a "Management for Change" aid program initiated by CIDA and administered through Dalhousie's Centre for Development Projects. Zimbabwe became an independent republic and a member of the Commonwealth in April, 1980, and one of the first tasks of Prime Minister Robert Mugabe was to develop for the country a public service that would respond to the

challenges of reconstruction and a socialist development process. Dalhousie's Centre for Development Projects was asked by CIDA to develop a program of co-operation in support of the Zimbabwe Public Service Commission's work.

As a result, 28 senior officials for 18 ministries in Zimbabwe worked at Dalhousie and, through the university, in a number of Canadian federal and provincial government organizations on programs to provide practical training and management development skills for their assignments in Zimbabwe.

"Advisory projects have led to long-term training projects for senior management, the philosophy being to foster self-help and self-advisory capabilities rather than to build up

See Dal aids Zimbabwe, p. 10

Forrest restoration means jobs for NS tradesmen

Restoration work on the Forrest Building, the oldest building on Dalhousie's campus, has begun.

And the 11 or 12 months work needed to put the building in first-class condition is providing close to 100 jobs in a variety of trades, says the contractor, Boyd and Garland Construction Ltd., of Dartmouth.

Dr. W. Andrew MacKay, president of Dalhousie, said recently that when the restoration work is completed — target date is May next year — the Forrest Building will house the Schools of Nursing, Physiotherapy and Occupational Therapy.

"I am pleased that the government of Nova Scotia is supporting the project. It will provide the university with badly needed facilities and will restore for modern purposes a building important to the history of Dalhousie," said Dr. MacKay.

The restoration, he added, will permit the concentration of nearly all teaching of health professions on the Forrest campus and will complete the integration of facilities serving the Atlantic region that was planned when the Dental School was opened many years ago.

Under the Nova Scotia Universities Assistance Act, the provincial government is providing a grant of up to \$2,524,100 towards the total cost of the restoration work, estimated at \$3,155,125. The government grant covers 80 per cent of approved construction costs. Dalhousie provides the balance. Some of the Dalhousie funds are expected to come from money raised for the purpose and in part from the proceeds of the sale of properties now occupied by the School of Nursing.

Work on the restoration of the interior of the Forrest Building began early in July after the university had called tenders and awarded a contract for \$1.9 million to Boyd and Garland Construction. The project has created jobs for many Nova Scotia tradesmen, including plumbers, carpenters, electricians, painters and wood workers.

The Forrest Building was constructed in 1887 when the university found its Grand Parade building too small and negotiated an exchange with the City of Halifax whereby Dalhousie acquired the Carleton Street site, plus \$25,000 for the Grand Parade property where City Hall now stands. DM



Restoration work on the Forrest Building has been underway since July. The contractors hope to have most of the work finished by May. (Photography Services photo — Carlos)

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Government, industry, and research together at Dalhousie

Focal Marine is a private, incorporated company whose purpose is to develop and market fibre optic products for use in a marine environment.

Focal Marine is the result of the efforts of Seimac Ltd. and its president Mr. Hugh Macpherson and Professor Barry Paton of the Physics department at Dalhousie.

Dalhousie University has been active for several years in research investigations concerning the behaviour of fibre optic cables in salt water environments. Professor Barry Paton, as head of the university's research team, has developed several devices embodying electro-optics for the marine science community.

Seimac Limited has for the past five years provided a custom microelectronics engineering service to the ocean industries.

The university and Seimac have established the new company, Focal Marine Limited, with the support of the federal department of Industry, Trade and Commerce. In effect, there has been a transfer of technology from the university research lab

to a commercial facility. The newly developed technology within the university and the marine manufacturing capacity of Seimac have given rise to a new "high tech" Nova Scotia company.

Dalhousie has acted to facilitate this development by permitting Dr. Paton to have release time to devote to the new venture. As well, Dalhousie will provide space for the sophisticated fibre optic equipment which will be used by the new company.

Focal Marine has several objectives: to provide technical and engineering services to the marine and offshore industries in the applications and design of fibre optic based systems and products; to provide a service and support capability to users of fibre-optic devices; and to provide a research and development capability in the use of fibre optic technology at sea.

With the federal assistance of \$1.5 million, Focal Marine will be ready to start production of new fibre optic facilities in the near future.

Dalhousie's Barry Paton A forerunner in the fibre optic field

Although his lab is his ultimate domain, Dr. Barry Paton of Dalhousie's Physics department is not a researcher with his "head in the clouds." Barry Paton is an entrepreneur, a realistic researcher who is always looking for practical applications for the phenomena he is studying.

This most recent venture with Focal Marine, in which his studies on fibre optics will see practical applications in the marine industry, is only the latest of many such endeavours. Dr. Paton has set up a cooperative Physics program at Dalhousie, through which Physics students can gain practical experience in industry. He was also instrumental in the set-up of the Applied Microelectronics Institute, one of eight Centres of Excellence in microelectronics established across Canada by the Department of Industry, Trade and Commerce.

Dr. Paton's formal education included a Bachelor of Science (Honours in Math and Physics) in 1965 and a Master's Degree in Laser Physics in 1966, both from the University of Waterloo. Three years later, in 1969, Dr. Paton received his Doctor of Philosophy Degree from McGill University in the field of Solid State Physics. This was followed by two years as a research postdoctoral fellow at the Royal Society Mond Laboratory, Cambridge University. Dr. Paton then returned to Canada to take up an

appointment in the Department of Physics, Dalhousie University.

Dr. Paton has been involved in many research activities and is the author of numerous scientific papers. His research interests include solid state physics, micro-computer instrumentation, solar energy applications, ocean electronics and fibre optic sensors.

In 1978, Dr. Paton received a three-year Strategic Grant from the National Sciences and Engineering Research Council of Canada (NSERC) to study the effect of an ocean environment on fibre optic cables. Today, the fibre optics laboratory in the Sir James Dunn Science Building at Dalhousie University carries on research in fibre optic systems, sensors and ocean cables. The main fields of application are in marine and medical electronics.

Dr. Paton has given numerous short courses on the subject of Microprocessor Controlled Instrumentation at research institutions, in industry, and within the university environment. In 1978 and 1980 Dr. Paton was an invited lecturer at the 5th and 7th International Symposiums on Solar Energy. He is the author of a correspondence course in Microcomputer Essentials and is always in demand as a lecturer in the marine course.



Seimac Limited
Canada

Focal Marine Limited

together at Dalhousie

This poster was hand painted by Kathi Petersen of the Public Relations Office to illustrate the close relationship struck up between Dalhousie University, industry and the federal government. (Photography Services photo - Carlos)

Dal News, September 22, 1983



Dr. Barry Paton, Dalhousie's enterprising researcher (Wilkins photo)

What are fibre optics and what can they do for the marine industry?

Fibre optics is the communications technology that transmits information, as pulses of light, along glass fibres.

A fibre optic system consists of a transmitter, a receiver, cable, and connectors. The transmitter converts electrical signals to optical signals, while the receiver detects light and re-converts it to an electrical signal. The cable preserves the optical properties of the fibres while providing environmental protection, and the connectors link the optical fibres to a terminal device or to another optical fibre.

THE ADVANTAGES OF FIBRE OPTICS

The explosive growth in communications threatens to overload conventional data communication systems. Copper, our traditional transport medium, is both a strategic and a limited resource. In the last 10 years, over 10 billion pounds of copper have been used for communication cable.

Optical fibres promise swifter transmission of more messages in a more slender cable than is possible with electrical signals in copper cables. And the transmission is virtually error-free.

MARINE ADVANTAGES OF FIBRE OPTICS

Glass fibres are an ideal choice for marine environments because the fibres are impervious to sea water, while copper corrodes.

Fibre, rather than cable, provides for considerable savings in terms of size, weight, and cost.

Optical transmission is immune to ambient electrical noise, which is a chronic problem in shipboard installations.

Optical fibres also provide wider spacing between repeaters, normally needed on underwater cables at 10 km intervals. Less repeaters means less costly maintenance.

Fibre is more resistant to fire, since optical fibres eliminate the hazards of short circuits.

The use of fibre optics will be useful in the communication system of ships. The weight of complex communications and control systems can be greatly reduced by this technology, a fact that is of considerable importance to military vessels where the communication systems are a major component of vessel weight.

Another application could be on the oil rigs. Information from the drill face can be transmitted to the surface providing unique opportunities for decisions. According to researchers, the ideal situation would be to have all control systems for the rig using fibre optics since Electrical shorting of such systems by sea water, as was reported to have occurred in the Ocean Ranger, could not happen.

Many other possible applications exist for this technology. Another advantage of the establishment of Focal Marine is that a uniquely-trained work force will be based in Nova Scotia. These highly trained scientists can be exploited for new opportunities in the development of a sophisticated "high-tech" industrial base for the province.

New sponsorship program at Dal

HELPS AFRICAN REFUGEES CONTINUE STUDIES

Dorah Kitaburaza and Ambaya Kidane are studying at Dalhousie this year because of a new sponsorship program for student refugees involving the university administration, the Dalhousie Faculty Association (DFA), the Student Union and Beaver Foods. Karanja Njoroge, Dalhousie's new international student coordinator, said the program has worked very well to date and both students are adjusting to life at Dalhousie.

The program was set up so that each sponsor would be responsible for one portion of the students' expenses. Tuition has been paid by the administration, accommodations by the DFA, meals by Beaver Foods and textbooks by the Student Union. The Student Union also agreed to give the students an opportunity to work as SUB staff.

Njoroge also gives credit to the World University Services of Canada (WUSC) for helping to make the sponsorship program a success. WUSC paid for the students' travel to Halifax. As well, WUSC volunteers, working in the "trouble spots" of third world countries, helped find eligible student refugees to come to Dalhousie, he said.

Both Kitaburaza and Kidane began their studies at universities in Africa but were forced to quit because of political problems

within their countries which resulted in personal persecution.

Kitaburaza is from Uganda, where she was a student at a university in Kampala until 1980, when the government changed hands. Because her father was a member of the new opposition party and because she was active in student politics, Kitaburaza was arrested and put in prison. Although she later fled the country and tried to continue her studies at a university in Kenya, that university was soon closed down because of the political climate.

Kidane, formerly an economics student at an Ethiopian university, was also persecuted for his involvement with student politics. Since 1976, his studies have been interrupted with prison terms and months of hiding or fleeing military authorities.

At Dalhousie, Kidane is continuing his studies in economics. Kitaburaza is working towards a Bachelor of Education. Although their expenses will only be paid for 12 months, Njoroge does not anticipate problems because both students will be eligible for student loans by that time. As well, because they have landed immigrant status, they are eligible to work in Canada. SW

New appointments

Continued from p. 3

In 1968 he was appointed high school liaison officer at Trent, and three years later became director of student awards and placement, a post he held until 1977.

From 1978 to 1980 he was director of admissions and academic awards, from 1980 to 1981 was university planning officer, and in 1981 was appointed director of community relations.

During his 16 years at Trent, Mr. Bowman was a member of many university-related organizations, including the Ontario Committee on Student Affairs (1971-77); the Ontario University Council of Admissions (1978-80); the Board of Management of the Ontario Universities Application Centre (1979-82); the Ontario Social Services Association (1974-83); the Ontario Student Awards Officers Association (1971-77); the University and College Placement Association of Canada (1972-77); the Association for Institutional Research (1980-); the Society for College and University Planning (1981-); the Ontario Planning and Analysis Group (1981-81); the Ontario Registrars' Association (1971-83) and a member of the executive of that association in 1978-79; the Council for the Advancement of Studies in Education (1979-). In 1975-76 he was vice-president of the Ontario Personnel and Guidance Association; in 1974-75 chairman of the Ontario region of the University and College Placement Association of Canada; in 1974 an assessor for the Canada

Council Grants Committee's higher education project; and in 1980 chairman of Dialogue '80 for the Ontario University Registrars Association.

Mr. Bowman was also active in the community, being an elder in a Peterborough United Church, a member of the mission and service committee of the church board, a founding member of the group leader for the Peterborough chapter of the Epileptic, a member of the Peterborough Theatre Guild, social convener for the 1980 Ontario Summer Games, and publicity chairman for a number of projects.

Mr. Bowman has written several articles for education journals and was co-editor of a recruiting manual for the University and College Placement Association.

Mr. Bowman, who is married and has three children, lives in Dartmouth.

John D. Mabley, former executive director of the Ontario Crafts Council, has been appointed director of development at Dalhousie.

Dr. MacKay said that Mr. Mabley, who has an impressive background in fund raising, will perform an important role for the university. "This is particularly so now that Dalhousie is in process of entering the renewal phase of its 'Restraint and Renewal' program."

The president added that special initiatives were being planned in support of the annual alumni fund and other major fund raising activities.

Mr. Mabley, who was born in Toronto, received his early education there. He obtained his BA from the University of Guelph and graduate degrees in human relations from Bowling Green State University and the University of Northern Colorado. Mr. Mabley has broad experience in the field of institutional advancement. He has carried out alumni and fund raising assignments since 1972 at the Universities of Northern Colorado, Queen's and Windsor. From 1979 to 1981 he was director of a \$2.5 million capital fund raising campaign for the Toronto French School, Canada's largest non-denominational independent school.

At the Ontario Crafts Council, he developed programs that increased membership by one third, raised fund raising results 20 per cent, and initiated corporate sponsorship for the first time in the Council's extensive exhibitions program.

Mr. Mabley helped to found the Southwestern Michigan Association of Alumni Directors in 1977; served as Vice-President of the Ontario Association of Alumni Administrators in 1978; was a member of the Board of Directors of the National Society of Fund Raising Executives (Canada) from 1981-1982; and has chaired a number of committees for the Canadian Centre for Philanthropy. DM

Driving to Dalhousie? Where do you park?

Parking at Dalhousie used to be a problem, especially for visitors. But the Security and Traffic department, and the university's parking committee, have taken a good hard look at the situation and, in response to some changes to the regulations in order to better serve visitors to the campus and members of the Dalhousie community alike, and to save the university some valuable dollars.

Maybe you have noticed the addition of parking meters on campus? There are 150 of them distributed throughout the various parking areas, and they are part of Dalhousie's attempt to improve the way "outsiders" see the university.

The meters are intended to make the campus more accessible to visitors, instead of having to pay for a \$2 daily parking fee for a half hour visit, visitors may now park on campus for however long they like, at the rate of 25¢ for 30 minutes. The limit on the meters is two

hours, plenty of time to attend a class or have a lunch time meeting.

The meters are not only intended for visitors to the campus, although it is hoped that they will be left relatively unoccupied for that purpose. That's why Dalhousie parking stickers are not valid in the metered areas. The signs above the new parking areas tell the story, "Welcome to Dalhousie," expressing not only a true sentiment, but also implying that these areas are reserved for visitors; "Metered parking, Dalhousie University parking permits are not valid in metered areas. Meter violators will be ticketed." Dalhousians with or without parking stickers are, of course, welcome to use the metered areas as well, but they must remember to "feed the meter" just like everyone else.

The new parking regulations, including termination of the sales of the \$2/day passes, went into effect last Monday, Sept. 19.

According to **Max Keeping**, Director of Security at Dalhousie, the new rules will not only make the campus more accessible to visitors, but will also alleviate the problem of having outsiders coming to the campus and buying expensive day time parking, and will save the university money since they eliminate the need for parking lot attendants.

Parking meters are located in the Dalplex parking lot, in the parking area between Studley field and the new Arena, outside the Kilam Library, near the north entrance to the Life Sciences Centre, in the Arts Centre parking lot, in the parking lot on the corner of South and LeMarchant Streets, and behind the Central Services building.

Yearly parking passes are available to all Dalhousians \$67 for students, \$82 for faculty and staff (it should also be noted that parking stickers issued this year are valid until August, 1984). GW

Athletes of the Week

MARY McGLONE — Women's Field Hockey — Mary McGlone, a fourth year Health Education student, is Dalhousie's first female Athlete of the Week for 1983. McGlone led the Tigers field hockey team to three straight victories in the opening week of AJAA action. McGlone, playing forward, scored five goals in three consecutive 3-0 victories. Two each against Acadia and Mount Allison, and one against UPEI. This is McGlone's fourth year with the Tigers.

MANOJ VOHRA — Men's Soccer — Manoj Vohra is the first male Athlete of the Week for 1983. The third year BSc student scored both goals in the Tiger AJAA opening game, come-from-behind victory of Memorial. Vohra also scored the winning goal against St Wilfred Laurier in the semi-finals of the Invitational. The Tigers leading scorer last year, Vohra is in his fourth year with the Tigers.

Senate's new officers assume posts



We caught Senate's first three elected officers, who earlier this year completed their terms of office on Senate, at convocation this year for this picture. Left to right are: Dr. William E. Jones, Dr. Alastair M. Sinclair, and Dr. John A. McClure. Dr. Jones, who was vice-chairman, is now chairman of Senate. Dr. Sinclair, who was returned, has become vice-president (academic) of the university. Dr. McClure was secretary and now returns to research and teaching duties in the Psychology department. All three, said the president, Dr. W. Andrew MacKay, contributed valuable service to Senate and the university during their years in office, and he was grateful for their advice and support. (Photography Services photo — Carlos)

The new officers of Dalhousie's Senate have been busy since their election this summer, and have already officiated as a convocation (during orientation week).

Dr. William E. Jones is the new chairman of Senate. He was elected to succeed Dr. Alastair M. Sinclair, whose three-year term of office expired earlier this year.

Dr. J. Philip Welch, professor of paediatrics, was elected vice-chairman and Professor Miriam Stewart, of the School of Nursing, is the new secretary.

Dr. Jones, who was vice-chairman, Dr. Sinclair and Dr. John McClure, who was secretary, were the first elected officers following reorganization four years ago of the Senate and its committees.

Dr. Jones, who has been at Dalhousie since 1962, was chairman of the Chemistry department from 1974 to 1983.

Dr. Welch, who joined Dalhousie in 1967, was president of Dalhousie Faculty Association in 1977-78.

The President's Sports Festival

Have you ever walked the plank, tried a cannonball splash or seen the president of walking in top hat and shoes? If you haven't, you missed out on the excitement of last year's President's Sports Festival. Not to worry — on Sept. 30, you will have another opportunity to join the fun and frolic, as the fourth annual President's Sports Festival goes into high gear.

Last year, more than 200 staff, faculty and students in more than 200 different shapes and sizes demonstrated varying degrees of athletic ability as they bicycled, walked, wheelchaired and cannonballed for their teams.

Why not join in the fun and frolic this year? Deadline for entering a team is Monday, Sept. 26. Call Campus Recreation at 2555 for details.

Here's a schedule of what you could be doing if you form a team:

3.2 KM ROAD RACE 5:30 p.m. Friday, Sept.

FRIDAY TEAM ASSEMBLY at the Dalplex Fieldhouse, 6 p.m.

OPENING CEREMONIES 6:30 p.m.

POOL EVENTS Inertube Relay, Slide Race, Cannonball Splash Contest, Traffic Jam, 7:00 p.m.

SATURDAY TEAM ASSEMBLY at the Dalplex, 9 a.m. Oct. 1

TRACK & FIELD EVENTS Bicycle Races, Walk-the-Plank, Tug-of-War, Car Push & Pull, 9:30 a.m.

LUNCH 12 noon 1 p.m.

FIELDHOUSE EVENTS Wheelchair Slalom, Obstacle Course, Three Legged Race, Egg Toss, and Over and Under, 1 p.m.

THE PRESIDENT'S STRUTT Walking Race, 3 p.m.

CLOSING CEREMONIES AND AWARDS 4 p.m.

SOCIAL Multi-Purpose Room, Dalplex — Cash Bar & Deli, 4-8 p.m.

***NOTE:** Teams must be in costume which depicts their faculty or department for the Walking Race.

TEAM COMPOSITION: 15 members: 8 males; 7 females. Each member must enter 3 events.



Funding for PA mediation project reaches \$170,000

The Institute of Public Affairs (IPA) has received grants totaling \$170,000 over a three-year period in support of its work in neighbourhood conflict resolution. A Donner Canadian Foundation grant of \$125,000 will help establish a community mediation service in the Halifax-Dartmouth Metropolitan area, while a Laidlaw Foundation grant of \$45,000 is earmarked for the research part of the project.

The Community Mediation Project has three components: the voluntary Community Mediation Network Service, a program of community education, and an evaluative and applied research effort.

The project will rely on cases of interpersonal and interorganizational conflict referred from various agencies in the community, such as the police, social service agencies and voluntary groups. The mediation service will provide a neutral third party to sit down with the disputants to help them work out a resolution to their differences.

The project will be governed by a Board of Directors comprised of representatives from various community agencies as well as the Institute of Public Affairs, and incorporated under the Societies Act of Nova Scotia.

The Donner grant provides funds for the first three years of operation — \$50,000 in each of the first and second years and \$25,000 in the third year. The granting of funds in the second and third years is contingent upon the receipt of additional monies from other sources. — J.S.

Dal News, September 22, 1983

In announcing the grant, Kell Antoft, Director of the Institute, stated: "The news of the Donner grant was most welcome. It means that the investigational work we put into the community mediation concept over the last year has paid off. The grant not only represents over half the amount we have been seeking, but will make the rest of the funds much easier to obtain with this endorsement from Donner."

"The Donner Foundation is one of the most respected granting agencies in Canada, well known for its support of innovative community-oriented projects," Antoft said. He noted that the Foundation has supported other projects at Dalhousie, including recent grants to the Atlantic Institute of Criminology, the Ocean Studies Program, and the Maritime School of Social Work.

The Laidlaw-supported research component of the project involves not only the evaluation of the Community Mediation Network Service, but some more fundamental work into how nonviolent interpersonal and interorganizational conflict can best be resolved in our society.

Those at Dalhousie involved in the community mediation project include Dr. John Beaton, Grant MacDonald, and Patti MacNeil of the Institute of Public Affairs, and Dr. Donald Clairmont of the Department of Sociology and Social Anthropology. Dalhousie faculty from Social Work, Business Administration, Education and Law have also shown interest in the project.

Enrollment up again

ARTS AND SCIENCE REGISTRATION INCREASES BY SIX PER CENT

Student registration at Dalhousie is up again. Preliminary figures for the 1983-84 academic year show a six per cent increase in the Faculty of Arts and Science over last year, which has almost 50 per cent of the total Dalhousie student population. The university registrar says that Arts and Science is filled to capacity, while registration in other faculties is constant.

Universities throughout Nova Scotia are reporting increases in the number of students registering this year. At Mount St. Vincent University, enrollment is up 21 per cent to a total of 2,750 students. Acadia is reporting a 2 per cent increase, with 3,000 students registered this year.

Donald Betts, Dean of Arts and Science, said the increases signify that students are putting greater value on a university education. "They may be coming here to get a job, but that still means they value the education."

Students at Dalhousie can choose from among 3176 classes. According to Dr. Betts, their choices presented the Faculty of Arts and Science with a few surprises this September.

Although large increases in enrollment in the departments of Biology and Chemistry were expected, these increases did not occur. However, significantly more students signed up for classes in French than that department was anticipating, causing Dr. Betts "to scramble to put on four extra sections." Enrollment in first year Calculus grew from approximately 800 students last year to

900 this year. Preliminary figures also show that enrollment is up 53 per cent in first and second year Sociology and Social Anthropology.

There were also a few surprises from the department of Computing Science. Dr. Betts said he was expecting a decline in the number of students in first year Computing Science, but tentative figures show an 18 per cent increase. Enrollment in third year is up 95 per cent while, in second year, it is down 15 per cent. He said the decrease in second year could have been caused by a new department regulation which stipulates that only students with an average of B or above may enroll in second year. As well, these first year students may have been discouraged by the fact that the department had some difficulty in handling their large numbers at the beginning of term last year.

Enrollment increases are causing several problems for the departments concerned, Dr. Betts said. More students often mean overcrowded classes. Students may also have to line up to use available equipment or come back to the university in the evening to do work.

Dr. Betts said the university is being hard pressed to come up with the funds to add extra classes, as was required in the French department this year. He said that it is unfortunate that the provincial government "doesn't see fit to increase our budget even by the amount it increased the Nova Scotia budget." SW

What's on at Dalhousie



Thursday

September 22

NATIONAL GALLERY OF CANADA EXHIBITIONS. Art Gallery, Sept. 22 - Oct. 30.

ISA ORIENTATION. Special movie at 7:30 p.m. in the MacMechan Auditorium.

ART GALLERY EXHIBITION. Tom Sherman and Canadian Paintings from the Sobey Art Foundation, part one, featuring Cornelius Krieghoff. Dal Art Gallery, Sept. 22 - October 30.

GRADUATE HOUSE ENTERTAINMENT. Don Muir Jazz Quartet at the Graduate House, 8:30 p.m. - 12:30 a.m. Members and their guests only.

Friday

September 23

CHEMISTRY SEMINAR. Dr. P. Sartori of the Universitat Duisburg speaks on *Electrochemical fluorination, polyfluoropoly-sulfonic acids and other adventures*, at 1:30 p.m. in Room 215 of the Chemistry Building.

FRIDAY AT FOUR LECTURE. Dr. William M. McCormack, Professor of Medicine and Chief of Infectious Diseases Division of the Downstate Medical Centre, State University of New York, speaks on *Vaginitis: Current Concepts in Theatre A* of the Sir Charles Tupper Medical Building.

ISA WELCOME PARTY. In the Garden, SUB. An orientation special.

LIBRARY SCHOOL FRIDAY LECTURE SERIES. Dr. Robert Slueart, Dean of Graduate School of Library & Information Science of Simmons College, delivers a lecture on *The Development of Libraries and Librarianship in the People's Republic of China* at 3:30-4:45 p.m. in the MacMechan Auditorium.

PSYCHOLOGY LECTURE. *Learning & Foraging* is the title of a lecture by Sara Shettleworth of the Department of Psychology, University of Toronto, at 3:30 p.m. in Room 4258/63 of the Life Sciences Centre.

Saturday

September 24

ISA PICNIC AT POINT PLEASANT an orientation special.

WOMEN'S FIELD HOCKEY. MUN at Dalhouse 1 p.m.

WOMEN'S SOCCER. Dalhouse at Mount Allison, 2 p.m.

8

Sunday

September 25

MUSIC DEPARTMENT CONCERT. *Present Works by Johannes Brahms*, 3 p.m. at the Rebecca Cohn Auditorium. General admission \$5, senior citizens \$4, students admitted free.

Mezzo-soprano Elvira Gonnella will sing a selection of songs by Brahms. Lynn Stodola, pianist, and Philippe Djokic, violinist will perform selected works for violin and piano, with pianist Tjeke Zonneveld assisting for duo piano works. Clarinetist John Rapson will perform Brahms' Clarinet Sonata in F Minor.

General admission \$5, \$4 for senior citizens. Students will be admitted free.

WOMEN'S FIELD HOCKEY. MUN at Dalhouse 1 p.m.

WOMEN'S SOCCER. Dalhouse at UPEI 2 p.m.

DALHOUSIE FILM THEATRE. *La Dolce Vita*, 8 p.m. at the Rebecca Cohn Auditorium. Regular \$4, Students/Senior Citizens \$3.50.

Monday

September 26

NURSING LECTURE. *Head Nurses and the Motivational Process*, a presentation by Evelyn Schaller, RN, MN of the Victoria General Hospital, 7:15 p.m. in the MacMechan Auditorium of the Kitlam Library.

This lecture is the first of a series of six presentations being given by local nurses involved in nursing research projects—all are welcome. Pub Hour with cash bar to follow at the Earl of Dalhousie in the Faculty Club.

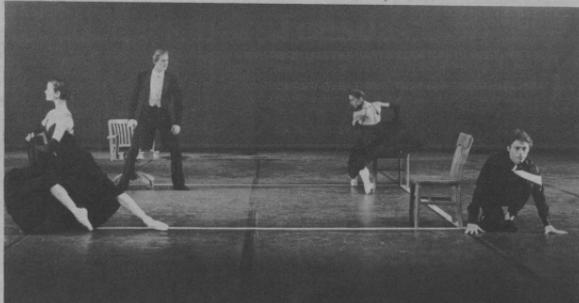
DAL KING'S READING CLUB. *Music Education—Why?*, Valda Kemp, 8 p.m. in Shirreff Hall.

Tuesday

September 27

ANATOMY SEMINAR. *Limb Segment Interaction in Human Locomotion*, conducted by Carol Putnam of the Department of Recreation & Physical & Health Education, 11:30 a.m. in the Sir Charles Tupper Medical Building.

ART GALLERY FILM: CIVILIZATION SERIES. *The Skin of our Teeth*, 12:30 p.m. in room 406 of the Arts Centre and 8 p.m. in the Art Gallery.





Special Opportunities for Study & Development

Fall, 1983
Dalhousie University

Part-Time Studies & Extension 424-2375

Welcome to the Special Opportunities Series

We are pleased to bring you the Fall, 1983, Special Opportunities for Study and Development series at Dalhousie University. These learning opportunities will appeal to persons with varied interests and goals—some are designed to enhance your business or personal knowledge; others are purely for pleasure.

Computers

Introduction to Computers

Computer use is exploding in business, schools and even homes. Still, many of us feel intimidated by them.

This Introduction to Computers will allow you to learn about computers through direct, "hands-on" experience. You will learn about the history of computers, about "hardware" and "software", and about the range of applications in the home, the office, and in personal and public education.

Fee: \$105. (includes materials)

BASIC Language Programming

A six-session course of particular interest to persons who wish to develop programming skills in the BASIC language, for use on micro, mini, or main-frame computers. BASIC is an all purpose language with an "English-like" set of statements suitable for application in scientific, business, educational and home computer areas. The fundamentals of microcomputer usage, the capabilities of the language, and a series of sample programs and assignments will be covered.

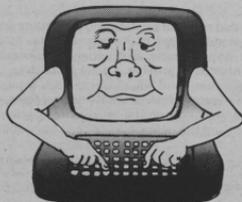
Fee: \$105. (including materials)

Advanced BASIC Language Programming

Prerequisite: BASIC Language Programming or equivalent experience.

This course will concentrate on programming skills as opposed to language syntax. Program structure, file handling, and the use of subroutines will be emphasized. Both business and scientific applications will be offered with the students choosing the area in which they wish to work.

Fee: \$105. (includes materials)



Concerning Computer Classes

The computer classes listed above, offered by **Part-Time Studies and Extension** are taught on the new microcomputers in the Dalhousie Learning Laboratory. Enrolment is limited to twenty participants in order to provide maximum hands-on experience. At the time of printing, all sections scheduled for the fall term had been filled. Additional sections may be added. Please call 424-2375 to have your name placed on our mailing list.

In addition, the **Computer Centre** offers a range of morning and afternoon classes which are designed particularly for Dalhousie faculty, staff and students, and other users of the CYBER computer. A non-refundable registration fee of \$10 is charged to Dalhousie participants; somewhat higher course fees apply to others. For further information call 424-3472.

Investing

Fundamentals of Investing

A ten-week introductory course designed to familiarize the participant with various fundamental aspects of personal investing. This course will appeal to persons interested in understanding the field of investment whether they have hundreds or thousands of dollars to use as disposable income. Topics include: financial planning; budgeting; report and financial statement analysis; taxation; stocks, bonds, options, mutual funds; tax shelters; and others.

This course will be presented by means of lectures, written materials, group exercises and case discussions. The emphasis will be on active participation by the learners.

Dates: Mondays, September 26 - December 5
(No class Thanksgiving Day)
Times: 7:30 - 9:30 p.m.
Fee: \$100. (includes materials)
Limited Enrolment

Understanding and Using Options and Commodities

In today's recovering economy and active markets there is an increasing interest in options and commodities. This eight week course emphasizes stock options but also covers gold, currency and bond options. Material is first presented on an introductory basis. Applied strategies will also be covered. The final portion of the course will provide an overview of commodities. Guest presentations will be part of this course.

Dates: Thursdays, September 22 - November 17
Times: 7:30-9:30 p.m.
Instructor: Suzanne Sheaves, B.A., M.B.A.
Fee: \$100.
Limited Enrolment

Landscape Gardening

Introductory Landscape Gardening

Others have taken it and loved it! Always wanted a garden, but don't know where to start? Fall is an excellent time to plunge in and Introductory Landscape Gardening teaches you the elements of landscape design and construction, and the basis of working successfully with plant materials. You will be able to plan your property to yield maximum satisfaction while decreasing maintenance. Slides and Guest Lecturers.

Dates: Mondays, September 26 - November 21
Times: 7:30 - 9:30 p.m.
Instructor: Jill Cooper-Robinson, Gardener and Gardening Journalist
Fee: \$75.



Getting Started with Investments

An introductory seminar to familiarize the participant with various terms and concepts regularly used in the financial world. Topics include investing vs. saving, setting investment objectives, distinguishing among the various investment vehicles available, introductory tax planning from a investment point of view and others. Handouts, exercises and follow up reading are included.

Date: Saturday, October 29
Times: 9:00 a.m. - 4:00 p.m.
Instructor: Suzanne Sheaves, B.A., M.B.A.
Fee: \$50.
Limited Enrolment

Investment Strategies

This participant is familiar with basic investing terms but seeks information on application and use. What strategies are used in today's busy market? Analyses of investments from a technical, economic, industrial and company point of view are examined. A practical and timely one day session. Includes stocks, bond and money market investments, options, commodities, tax vehicles and more.

Date: Saturday, November 26
Times: 9:00 a.m. - 4:00 p.m.
Instructors: Suzanne Sheaves, B.A., M.B.A., Margot Knox, B.Sc., M.B.A.
Fee: \$50.
Limited Enrolment



Advanced Landscape Gardening

This course offers detailed knowledge in areas of plant materials crucial to the serious gardener. In addition to lectures on such general subjects as the safety of gardening chemicals or the know-hows of plant propagation, each of the eight sessions also features an hour from a specialist in such fields as lillies, fruit trees, ornamental conifers, roses, Ericaceae (heathers and rhododendrons).

Dates: Tuesdays, September 27 - November 15
Times: 7:30 - 9:30 p.m.
Instructor: Jill Cooper-Robinson, Gardener and Gardening Journalist
Fee: \$75.

Speed Reading

Speed Reading

A series of seven weekly sessions which center upon developing such skills as increased reading rate, improved reading comprehension, time management, improved reading vocabulary, organization of data, attention, concentration and memory retention. Business and professional persons, students (both high school and university), educators and others have learned to comprehend rapidly, to adjust their pace to different materials, and to use an organized system of recall.

Dates: Tuesdays, September 27 - November 8
Times: 7:00 - 9:30 p.m.
Instructor: Eileen Pease, M.Ed., Reading Specialist
Fee: \$125. (\$100. for students)
Limited Enrolment

Intensive Speed Reading

Busy people with heavy reading loads may find it hard to commit time to do the seven-session course but may be interested in this Friday evening/all day Saturday structure. Participants will be taught the same skills as in the longer course -flexible speeds, recall management techniques -and will be given a home study manual which contains four weeks of practice work. There is also the opportunity to return to class for additional 3-hour follow-up session. This course may also be arranged for specific groups.

Dates: Friday/Saturday November 4/5, follow-up November 21
Instructor: Eileen Pease, M.Ed., Reading Specialist
Fee: \$85. (\$75. for students)
Limited Enrolment

Printing and Publishing

Practical Printing

The participants will be taught hand typesetting, imposition, make-ready and platen presswork. Attention will be given to layout and design, appropriateness of type faces, mixing of colour inks, and other aspects of simple typography, as outlined in the International Typographers Union courses for printers.

Dates: Tuesdays, September 27 - December 6
Times: 7:30 - 10:30 p.m.
Instructor: Robert and Dawn, English Department, and Library Services.
Fee: \$75. Limited Enrolment

Printing and Publishing in Atlantic Canada Today

Offered in cooperation with the School of Library Services.

In the last two decades an astonishing array of local and regional printing and publishing activity has developed in Atlantic Canada. In this eight-session course, an experienced printer and publisher will provide a background to this development and will examine such topics as modern production facilities and problems, the publishing and printing process from writer to reader and the economics of regional publishing.

Dates: Wednesdays, September 28 - November 16
Times: 7:00 - 9:00 p.m.
Instructor: William H. McCurdy
Fee: \$70.

The Ideas and Issues Series

The offerings in the **Ideas and Issues** series are intensive, three-session, short-courses, designed to introduce you to a field, bring you up-to-date on important issues, or simply explore an interesting topic. Instructors will provide an overview of the field, identify current issues and trends, encourage questions and discussions, and supply you with a basic reading list for further study.

The short-courses will take place on consecutive combinations of Tuesdays and Thursdays. This sequence will enable you to schedule a convenient three-evening block of your time. And each short-course costs only \$12. Don't miss this unique opportunity for refreshing and stimulating thought and discussion.

Growing Old in Canada Today

Changing patterns of demography, social life and economic circumstances have prompted a new awareness of the process and problems of aging in contemporary society. This course will introduce participants to the new field of gerontology and will consider some of the basic psychological and social factors involved in understanding and providing for older citizens.

Barbara Keddy (School of Nursing) is very active in gerontological study and in issues affecting older Canadians.

Sessions: Tuesday, October 4
Thursday, October 6
Tuesday, October 11
Times: 7:30 - 9:30 p.m.

Exploring the Arts

Dalhousie Chorale

The Dalhousie Chorale is the metro area's principal oratorio choir. Each season, university students and faculty join with members of the community in performing major masterpieces in concert with orchestra on CBC broadcasts.

Only a basic voice placement test is necessary; the ability to read music, though an asset, is not required.

The first rehearsal, with placement test and registration, will be Monday, September 12, 7:30 p.m., Room 121 Dalhousie Arts Centre.

Dates: Mondays, September 12 - April 2
Times: 7:30 - 10:00 p.m.
Director: Walter Kemp, Music Department
Fee: \$25.

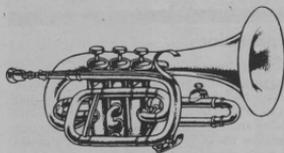
For further information call 424-2418.

Dalhousie Jazz Band

Audition required.

Director: Don Palmer, Music Department
Fee: \$25.

For further information, call 424-2418.



A People at Work: Labour and Labour Struggles in the Maritimes 1848-1925

Children in the coal mines, women in shoe factories and cotton mills, craftsmen in the port cities: they all were part of the region's working class, formed as a result of industrialization in the nineteenth and early twentieth centuries. Although the history of the working class is one of rebellion and struggle, much of it has been forgotten. This course will try to rescue the history of the region's workers by looking at the changes in the workplace, the slow emergence of a working-class consciousness, and the difficult struggle for an effective trade-union movement.

Ian McKay (Department of History) is one of a very small number of scholars who has paid serious attention to labour issues in the Maritimes.

Sessions: Tuesday, November 1
Thursday, November 3
Tuesday, November 8
Times: 7:30 - 9:30 p.m.

Religion, Dance and Music in India

This course will deal with the rich and ancient interrelations between dance, music and religion in India. It is not a course in religion as such, but in the ways religion is manifested in dance and music. Individual classes will focus on the various classical dance styles, and will present basic information on the fundamentals of music so that participants will be better enabled to understand and appreciate Indian music and dance. There will be several slide-shows, lecture-demonstrations of dance, display of costumes, and many demonstrations of the varieties of music produced by this culture.

Dates: Wednesdays, September 21 - November 23
Times: 7:30 - 9:30 p.m.
Instructor: Oopalee Operajita, leading classical dancer of her generation in India. She is primarily an exponent of Odissi, but has also studied and performed Bharatanatyam.

Fee: \$75.

Theatre Workshop

This class is designed for those who have some acting experience and are interested in developing and heightening their skills. It will take the form of ten workshop sessions and will include components dealing with voice, improvisation and scene study. Members of the workshop will be expected to prepare material for presentation on a weekly basis.

Dates: Mondays, September 26 - December 5
Times: 7:00 - 9:30 p.m.
Instructor: David Overton, Theatre Department
Fee: \$55.

Special Series on Disarmament

The Arms Race: Who's Winning?

Local and global concerns. A lecture series on the arms race, disarmament and international development.

Cosponsored with: Mount Saint Vincent University, Saint Mary's University, International Education Centre, Halifax City Regional Library.

Dates: Wednesdays, October 5 - November 22
Time: 7:30 p.m.
Location: Halifax City Regional Library
No registration fee.

Please contact Part-Time Studies for a copy of the brochure outlining the full program.

Self-Instructional Language Program

Self-Instructional Language Program

A unique opportunity of acquiring solid language skills (both oral and written) through individual study, using tape recordings matched to carefully structured guide books and taking advantage of the special facilities of the Dalhousie Learning Lab.

Some features include:

- No set dates for registration or starting study; begin at any time of the year.
- Freedom in pacing: work at your own rate of speed, and as many hours a day as you wish.
- Wide choice of study periods:
- The lab is open from 8:30 a.m. to 9:30 p.m. Monday to Thursday, with additional hours available on Fridays and weekends.
- No teachers, classes, tests or examinations.

Languages Available:

Arabic
Chinese
Dutch
English (for speakers of other languages)
French
Gaelic
German
Greek

Hebrew (Modern)
Hungarian
Indonesian
Japanese
Russian
Serbo-Croatian
Spanish
Swahili
Turkish

Other language courses are in preparation or under consideration: let us know your needs and interests - priorities depend on demand as well as availability of good materials.

Ask for our folder *Self-Instruction in Language - What the Learner Should Know*.

Fee: \$45 for a 16-week period (slightly higher for English)
No fee for French for Dalhousie faculty, staff, and students.

The Great Detectives

(Continuation of the Murder in the Classroom Series)

An eight session series which includes lectures and discussions on such topics as an outline of crime and detective fiction, Sherlockiana, the Golden Age of the English detective novel; the American tough-guy detective, the psychological detective, and the next generation of Great Detectives. Registrants will be provided with a copy of *The Mystery Story* and an annotated historical outline of crime and detective fiction.

Dates: Wednesdays, September 28 - November 16
Times: 7:00 - 9:00 p.m.
Instructor: Richard Brown, Psychology Department
Fee: \$45.

Needle Arts I

A unique course in fabric embellishment designed for the needlewoman with basic sewing skills interested in the study of needlework techniques. Ten morning sessions of three hours each will focus on historical development, demonstration of technique and allow for individual assistance in the preparation of take-home needlework binders. Emphasis will be placed on the importance of colour and design throughout all facets of the workshops. Topics include: colour and design, crewel embroidery, assisi embroidery, darning patterns, blockwork embroidery, blocking and finishing, and machine embroidery.

Dates: Wednesdays, October 5 - December 14
Times: 9:00 a.m. - 12:00 noon
Instructors: Beverley McInnes, Jean Fraser, Heather Macumber, Elise Doane, Robert Doyle.
Fee: \$100. (Fee includes instructional materials and take-home binder, but does not include fabrics, thread and other materials used by registrants).

Effective Memory Techniques

Good memory is a skill, just like good tennis or good typing. It is just a matter of wanting to improve and learning how to do it. In the ancient world, before the days of universal reading and writing ability, a trained memory was of vital importance. Whether you want to remember lists, sequences, numbers, names and faces or generally to understand and improve your memory, this course will help.

Dates: Tuesdays, November 15 - December 7
Times: 7:00 - 9:00 p.m.
Instructor: Eileen Pease, M.Ed.
Fee: \$60.

Health, Nutrition, and Prevention of Disease: Shedding Light on Current Issues

What you always wanted to know about your health. How can you avoid chronic diseases of the liver, the lungs, the heart and the blood vessels? How do you remain (or become) healthy? How do you eat well? Should you take it easy?

This short five-session course based on the Harvard Medical School Health Letter deals with these questions and others you bring along.

Dates: Mondays, November 7 - December 5
Times: 8:00 - 10:00 p.m.
Instructor: W.T. Josephans, M.D., Department of Physiology and Biophysics
Fee: \$35.

Community Co-op for Volunteers

A series of six sessions designed especially for potential and active volunteers of voluntary agencies. The program will offer an introduction to volunteer work and interpersonal communication skills. Sessions relating to various fields in which volunteers are active or may become involved will be included.

Dates: Wednesdays, September 21 - October 26
Times: 7:30 - 9:30 p.m.
Fee: \$10.

Sponsored by the Volunteer Bureau in conjunction with Part-Time Studies and Extension.

Legal-ease: A Practical Introduction to the Law

Have you ever had questions about the law? Are you confused about how our legal system operates, or why it operates as it does?

These six classes will introduce you to fundamental legal concepts and provide some practical knowledge about how our courts work, and what the law is in relation to families, consumers, property owners, landlords and tenants, wills & estates.

Dates: Tuesdays, October 4 - November 8
Times: 7:30 - 9:30 p.m.
Coordinators: Thelma Costello, Public Legal Education Society of Nova Scotia
Norman Letalik, Public Service Committee, Dalhousie Law School
\$12 (includes materials)

The series is sponsored by the Public Legal Education Society of Nova Scotia, the Public Service Committee of the Law School and Part-Time Studies & Extension, Dalhousie University.

Options for Career Change

This course is designed for people who are wondering whether they really want to continue what they are now doing, but feel trapped by their current situation and unsure whether they are equipped to be successful at anything else.

This course will help you evaluate your work and life experience, identify skills, traits and interests, and assist you to choose more satisfying and productive career options. You will discover what you enjoy doing well, where you can do it, and how to get the job you want.

Dates: Friday, November 18, 7:00 - 10:00 p.m.
Saturday, November 19, 9:00 a.m. - 4:30 p.m.
Sunday, November 20, 9:30 a.m. - 1:00 p.m.
Instructor: Eileen Pease, M.Ed.
Fee: \$70.

The History of Coinage

This six-session course is designed for people who have a broad interest in history and major arts but wish to explore one of the minor arts - coins. The course will span the history of coinage from its beginning in the 7th century BC to present day, covering Greek, Roman, Medieval and Renaissance, Baroque, Classical, and modern times (including the review of Canadian coins). The development of coinage will be discussed in relation to political, economic and cultural events. Colour slides of coins as well as sculpture and painting will be shown.

Dates: Wednesdays, October 5 - November 9
Times: 7:30 - 9:30 p.m.
Instructor: Aza Avramovich, Special Lecturer, Technical University of Nova Scotia
Fee: \$45.

Prospecting and Geology in Nova Scotia

This eight-week course will cover the theoretical and practical aspects of basic prospecting. It will give the participants an understanding of the rocks, minerals and landforms of Nova Scotia. Emphasis will be placed on practical applications through field trips and weekly lectures.

The following topics will be covered:

- identifying rocks and minerals
- using maps and air photos
- learning prospecting methods
- using various types of equipment
- understanding government regulations and staking claims

This course is offered in co-operation with the Department of Geology, Dalhousie University, the Nova Scotia Department of Mines and Energy, and the Chamber of Mineral Resources of Nova Scotia.

Instructors: Howard Donohoe, Ph.D. Regional Geologist, N.S. Dept. of Mines and Energy
Peter Wallace, M.Sc. Instructor, Dept. of Geology, Dalhousie University

Dates: Mondays, September 26 - November 21 (Including one half-day and one full-day field trip)
Times: 7:00 - 9:30 p.m.
Fee: \$55.

Time Management for Women

Most women have at least two jobs because they run a household and hold an outside job. Many are mothers carrying the heavy burden of child care and responsibility. Often they are also volunteers, students, community helpers and church workers. This course will show them how to save time and to clarify their own needs and goals. Some topics covered are: How to say "NO", the Superwoman complex, goal setting, the Important vs. the Urgent, the psychology of procrastination, and principles of effective time management.

Date: Saturday, October 1
Time: 9:00 a.m. - 4:00 p.m.
Instructor: Eileen Pease, M.Ed.
Fee: \$50.

Weekend Workshops

This Fall we are expanding our range of Weekend Workshops, since their timing is often convenient for busy people. For full details, please check the complete descriptions in this paper.

| | |
|----------------------------------|---------------------|
| Time Management for Women | October 1 |
| Getting Started With Investments | October 29 |
| Intensive Speed Reading | November 4, 5 |
| Options for Career Change | November 18, 19, 20 |
| Investment Strategies | November 26 |

Registration

Since enrolment is limited in many classes, we recommend that you register as early as possible to avoid disappointment. Registration may be completed by mail or in person at Part-Time Studies and Extension, 6100 University Avenue (opposite the Arts Centre). Once registration has been completed we will forward to you a confirmation of registration, indicating the location of your class.

Wednesday September 28

SOCCER. Acadia at Dalhouse, 4 p.m.

ON STAGE AT THE COHN: JIM GALLOWAY. 8 p.m. Regular admission \$10/\$9, students and senior citizens \$9/\$8.

Thursday September 29

DALHOUSIE WOMEN'S CLUB ANNUAL COFFEE PARTY. 8 p.m. at Shirreff Hall. All women associated with the Dalhouse community are invited to attend.

ENGLISH DEPARTMENT LECTURE. 7:30-10 p.m. in the MacMechan Auditorium. Call department at 3384 for details.

GRADUATE HOUSE ENTERTAINMENT. Jarvis Benoit Quartet, 8:30 p.m. - 12:30 a.m. Members and their guests only.

THE DALHOUSIE CHAMBER CHOIR REHEARSAL. New members welcome. If you are interested in singing folk songs and motets in a 25-voice choir, come to a rehearsal and audition today at 8 p.m. in Room 111 of the Dalhouse Arts Centre.

Friday September 30

PRESIDENT'S SPORTS FESTIVAL. Pool events. See page 7 for full details. Fans and spectators welcome.

DENTISTRY 75TH ANNIVERSARY SYMPOSIUM. Today's Research — Tomorrow's Health Care Delivery. Dental Building. Continues tomorrow.

LIBRARY SCHOOL FRIDAY LECTURE SERIES. Oral History, by Ms. Kathy Moggridge, 3:30-4:45 p.m. in the MacMechan Auditorium.

FRIDAY AT FOUR. The Gonad-Brain Connection: Studies in Psychoneuroendocrinology, a Dalhouse Research Presentation by Dr. Dwight M. Nance, Associate Professor of the Department of Anatomy.

ON STAGE AT THE COHN. LES GRANDS BALLETS CANADIENS. 8 p.m. Regular admission \$12/\$11, students and senior citizens \$11/\$10. Also tomorrow.

PSYCHOLOGY COLLOQUIUM. How educators use psychology and for what, Edgar Friedenberg, Dalhouse Department of Education, 3:30 p.m. in room 425B/63 of the Life Sciences Centre.

Saturday October 1

SOCCER. Dal at St. Francis Xavier 11 a.m.



Sunday October 2

SWIMMING. Dal Sprint Relay.

WOMEN'S FIELD HOCKEY. Saint Francis Xavier at Dalhouse at 2 p.m.

DALHOUSIE FILM THEATRE. Tex, 8 p.m. in the Rebecca Cohn Auditorium, regular admission \$4, students and senior citizens \$3.50.

SUB MOVIE NIGHT: ZORBA THE GREEK. 8 p.m. McInnis Room.

Monday October 3

NATIONAL UNIVERSITIES WEEK. Universities across Canada celebrate themselves. See story on page 14 for details on Dalhouse's events.

Tuesday October 4

WOMEN'S FACULTY ASSOCIATION MEETING 4:30 p.m. in the third floor reading room of the Graduate House.

ON STAGE AT THE COHN: WONDERFUL GRAND BAND 8:00 pm regular admission \$8/\$7, students and senior citizens \$7/\$6.

FILM: THE GREAT THAW 12:30 noon MacAloney Room 406, 8pm in the Art Gallery. Admission free.

ART GALLERY FILM: Part Two of the Civilization Series.

MOUNT SAINT VINCENT PRESIDENT'S PANEL Significance of the Cultural Interaction between Halifax Universities and the Community, 8:30 pm Auditorium D, Seton Centre, Mount Saint Vincent.

Wednesday October 5

ON STAGE AT THE COHN: THE GOOD BROTHERS 8:00 pm regular admission \$8.50, students and senior citizens \$7.50.

GERMAN FILMS: DER KONIG UND SEIN NAIR 8:00 pm Killam Auditorium.

GRAHAM CHAPMAN of Monty Python fame... 8pm McInnis Room SUB.

What's on You tell us!

In order for What's on at Dalhouse to be as comprehensive a listing as possible, we need your help. Listings in What's on are printed free of charge. If you have an event which you would like publicized, submit the details to Dal News no later than noon, the Thursday before the next Thursday's publication. Please note that since Dal News is published every two weeks, you'll sometimes have to be prepared well in advance (up to four weeks) to get your submission in.

Trividal

With trivia and trivia games in vogue, Dal News thought it appropriate to introduce a column of Dalhouse trivia. The aim is to puzzle, confound and bewilder you each week as we ask two questions about Dalhouse past or present. We promise to give the answers in the following paper, and we are also planning to offer the first ever Dalhouse trivia challenge contest next spring. So put on your mortarboards or thinking caps as we start off with these two easy questions:

WHAT WAS THE ORIGINAL HOME OF THE CHANDELIER FOUND IN THE FACULTY CLUB'S GREAT HALL?

WHAT FACULTY WAS THE FACULTY CLUB ORIGINALLY INTENDED TO HOUSE?



Alumni Activities

The Dalhousie Alumni Association will hold branch meetings in several Nova Scotia locations this fall, as follows:

Wolfville area alumni will meet at "Chez Mocha," hosted by Eric Demont, on Sept. 22.

Amerst and Sackville grads will meet at the Wandyn Inn, hosted by Dr. Barry MacLeod;

Sydney alumni will meet at the Holiday Inn Nov. 7, hosted by Dr. Murdoch Smith, and the Truro branch will meet at the Dalplex Restaurant on Nov. 29, hosted by Dr. Frank Slip.

WOMEN'S DIVISION FUNCTIONS

On Sept. 24, The Women's Division of the Alumni Association will hold its Annual Fall Coffee Party and Luncheon at Sherrif

Get into fitness at Dalplex

Whether you are five or 65, are into running or golfing, or want to lift or build muscles, Dalplex has a program that will interest you this fall.

Programs are advertised in the fall '83 Dalhousie Athletics and Recreation Services flyer, which is available at the Dalplex. Although many programs were filled shortly after registration began on Sept. 6, space is still available in those programs described below. All classes offered at the Dalplex. Please note that the first three were omitted from the flyer.

NUTRITION COUNSELLING

Consultant dietitian nutritionists provide one-to-one counselling, group counselling, lectures or short courses on nutrition by appointment. The counselling sessions include general nutrition instruction, individual caloric requirement calculation, behavior modification and counselling on specific subjects such as heart disease treatment and prevention, allergies and diabetes. For more information, call 424-3372.

ELDEROBICS (Gym and Swim)

Elderobics is a fun program for individuals 60 years or over involving 30 minutes of exercise and 30 minutes of aquazice. Classes take place on Tuesday and Thursday from 9:30 to 10:30 a.m. and have been running from Sept. 13 to Dec. 8 (there is still space available for late starters). The fee is \$40 for members, \$45 for non-members and an additional \$15 for a fitness assessment.

WALK-JOG PROGRAM

Walk-Jog Program participants will start with a walking program and gradually progress to running on a individual basis and with careful monitoring. Sessions, which take place Tuesday and Thursday from 9:30 to 10:45 a.m. and have been running from Sept. 13 to Dec. 8 (spaces are still available), will include lectures on stretching techniques and nutrition and weight control. The fee is \$50 for members, \$55 for non-members and an additional \$20 for a fitness assessment.

GOLF FOR JUNIORS

This after school program has been designed to attract both the golfing novice and those with some experience. Each class will include seven juniors and two golfers. Classes take place on Monday or Thursday from 5:30 to 6:30 p.m. and 6:30 to 7:30 p.m.

Dal News, September 22, 1983

Hall, and on Oct. 22 will sponsor an **Octoberfest** at Howe Hall, 9 p.m.-1 a.m. The price of \$10 a person includes great German Food, a beer, and dancing to an OOM-PAH band. All proceeds will go to the Women's Division Scholarship Fund. Tickets for both events are available from the Alumni Office, 424-2071.

CASINO NIGHT

The Alumni Association is organizing a giant Casino Night on Oct. 29 at the Faculty Club. This event is a fund-raiser for the Women's Basketball Team. Admission is \$5. For more information call 424-2152.

ALUMNI VS. VARSITY

Dal Alumni will challenge Varsity Teams as follows: Saturday, Oct. 15, Men's Volleyball, 1 p.m., Thursday, Oct. 20, Women's Basketball, 8:30 p.m.

The fee is \$45 for members and \$50 for non-members.

RACQUET SPORTS FOR SENIORS AND JUNIORS

In the junior classes, qualified instructors will teach the basic skills, qualified to enjoy the sport. Six 30-minute squash sessions, each with six participants and two courts, will be offered on Wednesdays from 8:30 a.m. and 6:30 to 7:30 p.m. The fee is \$35 for members and \$40 for non-members. Six 30-minute racquetball sessions, with six participants and two courts per class, will be offered on Thursday evenings. Times and fees are the same as for squash classes.

Squash and racquetball classes for seniors offer ten 30 minute sessions with six participants and two courts per class. Squash classes will take place Wednesdays from 7:30 to 8 p.m. and 8 to 8:30 p.m. Racquetball classes will be on Thursdays at the same times. Fees for both classes are \$50 for Dalplex members and \$55 for non-members.

SLIM, TRIM AND SWIM (Musical Jazz Routines)

This class has been structured for people looking for a challenging workout while maneuvering to musical routines. Classes in Section 1 run from Sept. 19 to Dec. 2 on Monday, Wednesday and Friday from 9:30 to 10:30 a.m. with swims on Monday and Friday. The fee is \$60 for members and \$65 for non-members. Section 2 runs from Sept. 20 to Dec. 8 with classes on Tuesday and Thursday from 7:30 to 8:30 p.m. The fee is \$45 for members and \$50 for non-members. A jazzercise class is offered Thursdays from 6:30 to 7:30 p.m. The fee is \$35 for members and \$40 for non-members.

DANCE

Space is still available in several dance classes. Jazz dance takes place Monday evenings from 8:00 to 9:30 p.m. at the fee of \$50 for members and \$55 for non-members. Social dance is also on Monday evenings from 7 to 8 p.m. at \$35 for members and \$40 for non-members. Three ballet classes will be offered on Tuesday evenings by Barbara Morgan at the fee of \$40 for members and \$45 for non-members. Children's Introductory Ballet is offered from 5:30 to 6:30 p.m., Ballet beginner 1, for those with no previous experience, runs from 6:30 to 7:30 p.m. and Ballet 2, for dancers with previous experience, will run from 7:30 to 8:30 p.m. SW

Who's new?

As you walked through the campus or ate lunch at the Faculty Club this summer, you probably noticed a number of new faces. Among those new Dalhousie staff members who you will want to get to know are:

Pat Curran, Pat is manager of Marketing and Public Relations for the Dalplex and will be looking after promotions, public relations, marketing and sports information. She is a native of Ontario where she worked for seven years as a public relations director with the provincial ministry of Culture and Recreation. Pat has also worked as a public relations consultant in Sydney, Australia. In that capacity, she was involved in the promotion of the Commonwealth Games in Brisbane. Pat can be reached at 424-6463.

Karanja Njoroge, Karanja is the new international student co-ordinator, replacing Oliver Lovesoy who has accepted a position as teacher in a post secondary language institute in the People's Republic of China. Karanja came to Halifax from Kenya where he taught at a junior high school and attended the University of Nairobi. He has a BBA from Mount St. Vincent University and is currently working towards an MBA at Dalhousie. He has also worked as a resource person for the CIDA, Briefing Centre in Ottawa and the Federal Business Development Bank in Halifax.

As international student co-ordinator, Karanja is already busy organizing activities for international students on campus. The first activity, a bus trip to the Annapolis Valley on Sept. 24, will involve visits to poultry and blueberry farms and an apple picking session.

One of his first problems has been to find housing for international students. He is still looking for accommodations for nine students. Karanja works out of the SUB at 424-7077.

Kay Turner, Kay, last year's assistant ombudsman, has moved up to become ombudsman this year. She is a third year law student at Dalhousie and worked this

Dal Students raise \$6,500 in Shinerama, Terry Fox campaigns

Two charities are \$6,500 richer, thanks largely to Dalhousie students.

In the annual Shinerama, in aid of the Canadian Cystic Fibrosis society, several hundred Dal students invaded shopping malls and busy street corners in Metro on Sept. 10 to shine the public's shoes. They raised over \$4,000.

And the kick-off of the Shinerama Saturday, President W. Andrew Mackay and Vice-

president Dal Legal Aid. Kay received her undergraduate degree at Mount St. Vincent University.

As ombudsman, Kay will be helping students solve a wide variety of problems as well as investigating complaints and working to improve communications within the university community. Kay can be reached at 424-6583. If she is not available, leave a message with the 24-hour answering service.

Suzanne Kinsman, Suzanne, who joined Dalhousie's Alumni Office as secretary of the director in 1982, is now assistant director of alumni affairs. She is a graduate of Dalhousie with a BA and BEd and attended the Maritime Secretarial Academy, graduating at the top of her class. As assistant director, she hopes to interest more of the university's young alumni in becoming involved and will be working to recruit high school students. Suzanne's number is 424-2071.

Jeanette Embery, Jeanette is the university's new career resource co-ordinator. Her duties include co-ordinating career information centre, giving student career workshops on such subjects as interview skills, the hidden job market and occupational options, and operating special screening sessions for prospective students. Jeanette has a BA from St. Mary's University and a Master of Education and Counselling from Acadia University. Before coming to Dalhousie, she did career counselling with handicapped adults for the Canadian Association for the Mentally Retarded. Jeanette's phone number is 424-2081.

Other new Dalhousie staff members you are likely to meet include: **Sandra Sackett**, executive secretary to Gerard Klassen, **Theresa Stephen**, box office manager for the Arts Centre, **Norman Napman**, director of the Dental Management Information System, **Shelley Johnson**, curriculum and elective co-ordinator for the dean of Medicine and **Lorna Cole**, administrative assistant to the dean of Health Professions. SW

Moly again appeals to Maritimers to support medical research

Four years ago, a widow living in Nova Scotia named Moly told her doctor that she wanted to contribute \$50 to medical research but was afraid her contribution would be too small to matter.

The doctor assured her that every dollar helps. He also spoke to the board of directors of the Dalhousie Medical Research Foundation about Moly and, as a result, they came up with the idea of an annual "grass roots" appeal to Maritimers' for research funds.

Although Moly has remained in the background of the campaign, a drawn likeness of

president **Robbie Shaw** volunteered to get wet. They were plunged into a dunk tank to raise money for the charity.

In last Sunday's Terry Fox Run, more than 130 Dalhousians — mostly students — took part. Half of the participants were from the Law School. They raised, in pledges and donations, almost \$2,500.

her is carried by newspapers throughout the Maritimes each year, and also appears in advertisements in the back of medical journals.

The annual Moly Appeal, which runs until Sept. 30, is one way in which Maritimers can help the work of their medical researchers. Money raised through the campaign is used by the Dalhousie Medical Research Foundation to promote the work of these researchers at Dalhousie and in affiliated hospitals. Donations may be sent to the Moly Appeal, Medical Research Foundation, P.O. Box 3505, Halifax, South, Halifax, N.S., B3J 3J2.

Profile



Working at a layout table is a luxury Jane Lombard of Graphics doesn't indulge in much these days. As director of her unit, Jane's primary responsibilities involve meeting customers, consulting and assignment jobs to her four staff members. (Wilkins photo)

Patience and a sense of humour keep Graphics' Jane sane

The cartoon depicts odd-shaped people laughing their heads off at the question: "You want it when?"

A reproduction of a piece of typeset text has a multitude of corrections and proof-reading changes and bears the headline: "Just a few minor revisions."

There's a "rush job calendar" on the wall showing a month's block of dates — but all jumbled up, so the 1st of the month is somewhere in the middle.

It clients don't get the message when they enter the closet-lobby of the almost-hidden, hard-to-find Dal Graphics unit, then they can't read or have no sense of humour.

That's an exaggeration, but Jane Lombard, who is in charge of the unit, does have a sense of humour — and infinite patience. That despite the fact that many people wanting graphics work — design, typesetting and layout done for a myriad of publications would like to have it completed yesterday.

"Deadlines," says Jane, "drive us nearly frantic. Especially at this time of year." The problem is, of course, that the deadlines are other people's. Jane and her staff have their own rules, but often, in cases of emergency, they do bend and batter and break down those rules. In so doing, they provide fast, first-rate service that, at times of lesser urgency, comes to be expected.

Human nature being what it is, every client believes his or her job is of the utmost importance. But Jane and her crew really do need thinking time, as well as reasonable amounts of production time.

Consider what the unit does. It provides students, faculty and staff with typesetting, design and layout service for all manner of printing projects — books, brochures, business cards, newsletters, forms, posters, displays, reports, illustrations, logos, maps and so on. The variety of requests is endless. Once the unit even did the lettering on souvenir basketballs that Daplex wanted.

The use of typesetting-related facilities is extensive. The unit's typesetter estimates that in the couple of years she has been with Dalgraphics, she has typed the words "Dalgraphics" at least 25,000 times! The electronic, computerized photo-typesetting equipment, which is relatively new, is used, in addition to the preparation of reports, posters and the like, for student newspapers and, in part, for *Dal News*. There is also extensive use of micron-Cyber typesetting communications between the Computer Centre and the Word Processing Centre.

Graphics also has a camera which can enlarge/reduce and reproduce photographs, other illustrations and type. With three artists, one typesetting operator and a consultant/supervisor (that's Jane), the unit is kept hopping.

"Ideally," says Jane, "we like to have from a week to 10 days to complete most projects. This doesn't include printing time, which is also about 7-10 days. It also helps to have some idea of what you, the client, want, but we are a consulting service and will give advice on feasibility and price of any project."

Jane Lombard has been with Dalgraphics since 1973. She hails from New England, where (at Wellesley College near Boston) she took a degree in psychology/education, which doubtless stands her in good stead dealing with academic and non-academic clients. In Montreal for three years, she ran a bilingual day care centre and used her early design training with newspapers and a magazine in New England.

Before joining Dal, she was with McCurdy's, a Halifax printing company, and handled graphic design, layout, camera work, typesetting and proofreading. DM

In Memoriam

DR. IAN ALASTAIR MACDONALD

A memorial service for Dr. Ian Alastair Macdonald, 40, a brilliant and dedicated researcher, was held before a saddened congregation which filled the Cathedral Church of All Saints, Halifax, in August. Dr. Macdonald died suddenly at work in his laboratory in the Faculty of Medicine on August 5.

Dr. Macdonald was born in July, 1943 in Duncan, B.C., the son of Mrs. Helen Macdonald and the late Lt. Col. Ian Macdonald. He showed an early inclination to become a scientist, and in 1967 obtained a BSc. with honors in biochemistry at Dalhousie University. Four years later he won his PhD in biochemistry at the University of Ottawa.

In January 1971, Dr. Macdonald returned to Dalhousie University as a Post-Doctoral Fellow in biochemistry, and in August of the following year he joined the department of medicine as a Research Fellow. Dr. Macdonald was appointed lecturer in medicine at Dalhousie in July, 1973, became an assistant professor in 1975, and in July, 1983, was appointed associate professor. He also held a cross appointment to the department of biochemistry as a lecturer.

A man of boundless energy, enthusiasm and curiosity, Dr. Macdonald applied his knowledge of biochemistry and microbiology to enzymology, quickly gaining expertise. Within 10 years, he had become an international authority in his field. He wrote more than 50 original scientific articles during his career and contributed several chapters for books. He acted as reviewer for the Medical Research Council of Canada

(MRC) and the National Cancer Institute (NCI), by whom he was highly regarded and supported. He also acted as Scientific Officer for NCI. Last fall, the Canadian Society for Rheumatology and Colicae recognized him for his Young Investigator Award of 1982.

As a research scientist, Dr. Macdonald made significant, original contributions in several fields. For example, he described new enzymes derived from bacteria and their application to the measurement of bile acids (breakdown products of cholesterol) in both health and disease.

Mr. Macdonald also developed a compassionate and fundamental interest in the problem of carcinoma, particularly large bowel cancer. He sought for and identified new carcinogens, (cancer causing agents) and he was working on an animal model of this condition at the time of his death.

Dr. Macdonald was also committed to environmental causes, was an active jogger, and a keen bridge player, and was active year-round as a member of a local scuba diving club. He is survived by his wife, Linda Louise (Parkins), and his children, Andrew and Jenny-Mae. Halifax, his mother, Mrs. Helen Macdonald, Mill Bay, B.C., his brother, Dr. Rob Macdonald, Victoria, B.C., and his sister, Mrs. Louise Gibbs, Duncan, B.C.

Contributions to his memory may be made to The Dalhousie Medical Research Foundation, or the charity of your choice.

Barbara Hinds

Dalhousie seeks VP

The advertisement below, reproduced here for the benefit of the Dalhousie community, has been placed in the *CAUT Bulletin*, *AUCC's University Affairs*, *The Globe and Mail*, *The Chronicle-Herald/Mail-Star*, and *Science Magazine*, Washington, D.C.

Dr. Marcia Ozer, secretary of the search committee, encourages anyone in the Dalhousie community who is interested in the vice-presidential search, to communicate with the committee, either to submit nominations or applications for the vice-presidency, or to offer suggestions.

In addition to Dr. Ozer, of the Psychology department, the committee is composed of:

Professor Innis Christie, Law; Dr. Michael Cohen, Dentistry; Mr. Neil Eskrine, Student Union; Dr. Norman Horrocks, Dean of Administrative Studies and Director of the School of Library Science; Dr. T.L. Matoney, School of Recreation and Physical and Health Education; Dr. Robert March, Physics; Dr. Dennis Spence, Paediatrics; and Dr. Matthew S. Stairs, Political Science. The president, Dr. W. Andrew MacKay, is an ex officio member and chairman of the committee.

Dalhousie University Vice-President (Academic & Research)

Applications and nominations are invited for the position of Vice-President (Academic & Research), Dalhousie University. The University has more than 9,500 full- and part-time students, and 1,200 full- and part-time academic staff in Faculties of Arts and Science, Administrative Studies, Health Professions, Law, Medicine, Dentistry, and Graduate Studies.

The Vice-President (Academic & Research) is the senior Vice-President, responsible to the President, and works with senior University officers and the Deans of Faculties in administration of academic and research policies of the University. Candidates should be established scholars with qualifications appropriate for senior faculty appointment, and suitable experience in administration.

The appointment is normally for a term of five years and would commence 1 July 1984, or at a mutually agreed time. Applications should include biographical information and the names of three referees. Applications and nominations should be submitted by 15 November 1983 to The Secretary, Vice-President's Search Committee, c/o Office of the President, Dalhousie University, Halifax, Nova Scotia, B3H 4K6.

Dalhousie University is an equal opportunity employer.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.



Dalhousie University
Serving Atlantic Canada

MRC takes initiative in biotechnology training, Dal one of two Medical schools chosen for project

For the first time in its history, the Medical Research Council of Canada (MRC) has awarded grants to train scientists in biotechnology at two Canadian universities, Dalhousie and the University of Toronto.

Training grants valued at about \$100,000 in salary support in the first year will enable up to five graduate students and post-doctoral fellows to train in the highly specialized field of recombinant DNA technology, cutting and splicing genes. The grants will also provide annual allowances of \$2,500 for each student trainee and \$5,000 for each post-doctoral fellow payable to the supervisor of each trainee.

The training program being set up at the Dalhousie School of Medicine is multidisciplinary, involving the basic science departments of biochemistry and microbiology, where faculty members have a wide range and high degree of the expertise pertinent to genetic engineering. Faculty members in the training program will include Dr. R.W. Chambers, the Carnegie and Rockefeller Professor of Biochemistry, head of the department of biochemistry, and recipient of the Terry Fox Special Initiatives

Award of almost \$1 million; Dr. W. Ford Doolittle, winner of the Young Scientist Gold Medal of the Atlantic Provinces Inter-University Committee on the Sciences (APICS) in 1977, and named the Young Canada Biochemist of the Year in 1981; Dr. Michael Gray, winner of the 1982 APICS-Fraser Medal; Dr. R.G. Fenwick and Dr. G.N. Lazier, of the department of biochemistry; Dr. R.A. Singer, of the departments of biochemistry and medicine, and Dr. G.C. Johnston, of the department of microbiology.

Five training positions at the doctoral and post-doctoral level are available at Dalhousie for the year 1983/84.

Dr. Chambers, department of biochemistry head, said the establishment of the training programs by the MRC at this particular time shows great foresight by the Council. "In our opinion, it is critical that these training programs develop within the universities, and not, as has been suggested by others, in biotechnology companies.

Biotechnology is a practically oriented application of science to industry. It must make money to succeed. During this growth

phase of the industry, there is a critical need for highly trained scientists, able to use the various procedures of recombinant DNA technology, but also who understand the principles of molecular biology deeply enough to recognize how one might apply this new technology to various problems. One of the purposes of the MRC training programs is to train graduate and post-doctoral students in the highly specialized field of recombinant DNA technology. It is anticipated that a significant number of the trainees will end up in the biotech industry.

The training programs also have a broader goal. However, they are not designed to turn out highly trained technicians, but to produce highly trained, independent research scientists. The important difference is that basic scientific knowledge is involved in both the design and the execution of research projects. The research technician is involved primarily in the technical aspects of the work. BH

Medical Research Foundation now reaches half way point

The Dalhousie Medical Research Foundation, incorporated in April 1979, has raised \$5 million towards its initial objective of \$10 million. Dr. M. M. Sobkow, chairman of the board of directors, reported at the Foundation's annual meeting this summer. In addition, the Foundation holds and is the beneficiary of \$25,000 of charitable life insurance.

"All this has been achieved through the generosity of thousands of individuals, corporations and other organizations," said Dr. Sobey. "At a time of recession, when so many people feel a shortage of money, the Foundation is very grateful to the people of the Maritimes who have contributed so much for medical research. We are delighted to have attained so much in the space of four years, though we still have a long way to go."

Dr. Peter Gordon, the Foundation's executive secretary, reported the fund has been used to attract two world-class scientists, Dr. Hinrich Bitter-Suermann and Dr. Ronald Irving Carr, to the Dalhousie Medical School and to support six researchers in Fellowship programs of advanced research and 14 medical students in research training programs.

In addition, the Foundation has provided \$363,656 for the purchase of critically needed laboratory equipment valued at over \$50,000 has been provided for the discretionary fund of the Faculty of Medicine's medical research committee which awards start-up grants to new members of the faculty and to other investigators to help maintain continuity in their work and research grants from outside sources are ended.

As well, a new award for outstanding service was established by the Foundation during 1982, and the first recipient was Graham W. Dennis, publisher and chief executive officer of The Halifax Herald Limited, in recognition of his outstanding and continuing contribution to the formation, promotion and financial support of the Foundation.

Funds acquired by the Foundation over the last year include \$50,000 raised by a telephone produced by Ron MacLean in collaboration with ATV on the Maritime network over \$32,000 raised during the annual Molly Appleton, held in September and December; and in Memoriams for 1982 totaling \$15,089.50. Total bequests now amount to \$97,320.

Some of the Foundation's other special fund-raising projects included the annual variety show, *Lighter is the Best Medicine*, in which most of the performers are physicians, allied health professionals and medical students; *An Evening With The Cape Breton Fishers*; the *Novo Scotia Brass Band Concert*; the annual art auction, made possible by the generosity of Nova Scotia Artists, which realized over \$170,000 sale of records of the Nova Scotia Tattoo; a craft show and sale, with the assistance of Nova Scotia Designer Craftsmen; and the proceeds from three charity performances of *Meet The Navy*.

At the election of officers, Dr. Sobey was re-elected chairman, and Dr. Nora L. Balders was re-elected vice-chairman. Board members are: Dr. J.F.S. Crocker, Halifax, president of the Nova Scotia Alumni Association; Gordon F. Hughes, Windsor, N.S.; J.J. Wodrey, Hantsport, N.S.; Dr. A.K. Klassen, St. John's; Dr. D. W. Hatcher, Halifax, Dr. J. MacKay, President, Dalhousie University, Halifax, A.V. Willes, St. John's, president of the Saint John, N.B. J. Gregor Fraser, Halifax, and Dr. P.C. Gordon, executive secretary to the Foundation.

Those "pearly whites"

INTERNATIONAL SYMPOSIUM AT DAL TO STUDY HOW TO KEEP THEM THAT WAY



A number of top international dental scientists will be participating in a symposium on dental hard tissue next weekend. Pictured during their visit are, left to right, Dr. C.A. Bain, Dr. D.S. Precious, Dr. D.W. Jones (Chairman), and Dr. M.M. Cothran, all of the Dental School. The symposium is one of the final events of the School's 75th anniversary celebrations (Instructional Resources photo).

Teeth. The hard structures in the mouth that are used for seizing and chewing food. Vicious or friendly, they can be used as defensive or offensive weapons or to produce a dazzling smile.

By all appearances, teeth are simple structures, smooth and hard. But in reality, they are very complex. The tooth has two parts, the root, the part imbedded in the gum, and the crown, the white part we all see. It is built up with a layer of cementum, then dentine, followed by a pulp cavity, a layer of enamel, and is connected to the upper or lower jawbone.

But all we see, and form impressions from, is the hard tissue of the tooth, most

notably the enamel. For some dental researchers, that dental hard tissue — the crown, the enamel, and the bone of the jawbone — and the problems that arise in those areas are of increasing concern.

Dr. Derek W. Jones, professor of dental biomaterials science of Dalhousie, is one of those researchers. "The public today is much more conscious about dental hygiene and care," he says. "Dentistry is now at the point where we have found so many 'new' dental dental problems that we are realizing more and more than bone and enamel conservation is important."

Dr. Jones, who is also chairman of the Faculty of Dentistry's research development

committee, adds that many dentists today are as much chemists and applied scientists as they are dental practitioners.

This is why, with the Dental School's 75th anniversary committee, he has helped organize "Today's Research — Tomorrow's Health Care Delivery," an international symposium on dental hard tissue, to be held at Dalhousie on Sept. 30 and Oct. 1.

The symposium will bring together top researchers and members of the dental and allied professions to study and discuss how current research into hard tissues and hard tissue substitutes will be implemented in the dental care delivery systems of the future.

Specific areas to be covered include hard tissue formation, manipulation, destruction, repair and replacement.

The symposium speakers and their topics are: Dr. A. Richard Ten Cate, Dean of Dentistry at the University of Toronto (formation of dental hard tissues); Dr. Brian K. Hall, professor and chairman of the Department of Biology, Dalhousie (cartilage and bone in the craniofacial skeleton); Dr. Bruce N. Epker, director of the Centre for Dentofacial Deformities, John Peter Smith Hospital, Fort Worth, Texas (effects of early surgical correction); Dr. Anthony H. Melcher, director of the MRC group in periodontal physiology, University of Toronto (adaptive processes in the periodontium); Dr. Ralph W. Phillips, associate dean for research and research professor of dental materials, Indiana University School of Dentistry (destruction, repair and replacement); Dr. Leon M. Silverstone, associate dean for research, University of Colorado School of Dentistry (destruction and repair of tooth structure); Dr. Dennis Smith, professor of dental materials science, University of Toronto (replacement by non-metallic materials); Dr. Jones (ceramic materials); Dr. Cyril M. Evans, professor of periodontics, University of Pennsylvania (hydroxyapatite as an implant material for the replacement of oral bone); Dr. Max J. Hecht, professor of maxillofacial surgery, Louisiana State University School of Dentistry (reconstruction with hydroxyapatite); and Dr. Charles R. Jergie, chairman, dentistry, Wake Forest University (implementation in health care delivery).

The symposium is part of the final celebrations of 75 years of dentistry at Dalhousie.

Academic People

DAL STUDENT WINNS ANATOMY AWARD

Claude Willett of Bathurst, New Brunswick, won the C.P. LeBlond Research Presentation Award. Competition for the award is national in scope and the prize is presented by the Canadian Association of Anatomists under the sponsorship of W.B. Saunders Company of Canada.

Mr. Willett won the competition with his platform presentation of a scientific paper at the Canadian Federation of Biological Societies annual meeting in Ottawa.

Mr. Willett is a Master's student in the Anatomy department of Dalhousie's Faculty of Medicine. He was co-author of the paper with the department head, Dr. D.G. Wynn, and Dr. R.A. Leslie, associate professor.

BECK WINS LITERARY TRUST

Political scientist J. Murray Beck, Professor Emeritus at Dalhousie, has been named winner of the Evelyn Richardson Memorial Literary Trust award for best non-fiction prose book by a Nova Scotian.

The author of *Joseph Howe: Conservative Reformer, 1804-1848* received a cash award of \$700 and a silver trophy that is emblematic of Bon Portage Lighthouse in western Nova Scotia, where Evelyn Richardson began her career as a writer.

The selection committee — writer Murray Barnard, librarian Jean Beveridge and bookseller Sally Carson — reported that Mr. Beck's "competence in rising to the challenge and coping with the innumerable complexities of the life of Joseph Howe make the book a noteworthy achievement in Canadian biography."

HARVEY GOES TO SMU

Harvey Harvey, formerly senior research fellow at Dalhousie's Institute of Public Affairs (IPA), has been appointed chairman of the Economics department at Saint Mary's University.

Dr. Harvey, who received his BA from the University of Maine and his MA and PhD from Clark University, has been a member of the Dal faculty since 1966. IPA director Kell Antoff says that his appointment "caps a distinguished career of research and teaching in Halifax, Ottawa, the United States, Germany and Austria."

Dr. Harvey is particularly well-known at Dalhousie for his work on time budget research. One of his most recent projects has been a collaborative study with Sigmund Gronmo from the University of Oslo in Norway, who spent six months at IPA this year.

MED SCHOOL GRAD WINS COLLEGE OF SURGERY MEDAL

Dr. Marcus Burnstein, a resident of the Dalhousie Medical School, has been awarded the Royal College of Physicians and Surgeons' prestigious medal in surgery for his research into the formation of gallstones in humans — research which could help in future prevention.

Born and raised in Halifax, Dr. Burnstein cited Dalhousie University as the major source of the initiative to go into the research he is currently pursuing.

The award for his research work, which will be published at a later date in a gastroenterology journal, will be presented to Dr. Burnstein at the next Royal College of Surgeons meeting this month in Calgary.

THREE IPA PAPS PRESENT PAPERS

Three research professors from the Institute of Public Affairs (IPA) collaborated on a paper presented at the seventh annual meeting of the Canadian Regional Science Association this summer.

W. Stephen Macdonald, K. Scott Wood and William J. Coffey co-authored "Analysis of Small Area Data: Concepts and Methodologies" in response to the increasing demand for information on three major regional and urban planning activities: land use and environmental planning; natural resource and physical infrastructure planning; and urban and regional development planning.

The paper analyses the main sources that the social science researcher turns to for socio-economic information including the census and government administrative records.

The Institute of Public Affairs conducts social and economic development studies at the regional, provincial and local levels. These focus upon demography, labour force productivity, resource development projects, land use, transportation, industrial complexes, and high technology enterprises.

NEW APPOINTMENTS KEEP COFFEY BUSY

Dr. William J. Coffey of the Institute of Public Affairs (IPA) has accepted three recent appointments. He will serve on the Research Grants Adjudication Committee of the Social Sciences and Humanities Research Council of Canada (SSHRC), where he will be involved in the review of grants relevant to the fields of geography and urban and regional studies.

He has also been appointed to the Editorial Committees of *L'Espace Géographique* and *Urbania*, both published in France.

Dr. Coffey also gave two papers in France this month at the Joint Meeting of the European Congress of the Regional Science Association and the Association de science régionale de langue française.

In addition, Dr. Coffey was invited by the Fonds national suisse de la recherche scientifique (Swiss National Fund for Scientific Research) to participate in a seminar in its "Regional Problems" National Research Program in Geneva in September.

HORROCKS ON ALA COUNCIL

Dr. Norman Horrocks, director of the School of Library Science, has been elected to a four year term on the Council of the Atlantic Library Association. He will attend the first meeting of the Council at the Mid-winter meeting of the Association in Washington, D.C., in January 1984. Dr. Horrocks received 3,628 votes, topping the list of 75 candidates for election to the Council.

BECKE FIRST DALHOUSIAN TO RECEIVE EASTBORNE PRIZE

Dr. Axel D. Becke, of the Chemistry department, has become the first Dalhousie scientist to receive the E.B. Eastborne Fellowship, awarded by the Hamilton Foundation of Hamilton, Ontario.

The foundation awards only two of the \$36,000 fellowships each year to candidates in all the natural sciences. Ten have been granted since the establishment of the fellowship plan in 1977.

Dr. Becke, who earned a PhD degree in physics from McMaster University in 1961, has been engaged in research at Dalhousie as a Natural Sciences and Engineering Research Council (NSERC) post-doctoral fellow.

LIBRARY STUDENTS WIN AWARDS

Judith M. Dunn of Dartmouth, N.S. is the winner of the Lorna Innes Book Prize for the top student of the graduating class in the School of Library Science course in Collections Development. This prize was initiated by Lorna Innes, noted local reviewer, to encourage the development of a personal, recreational library of Canadian books.

Ms. Dunn is a graduate with honours from the University of Waterloo. She has worked at the Dartmouth College Library and the Macdonald School Library at Dalhousie. Upon entering the School of Library Science, Ms. Dunn was a recipient of the Natural Sciences and Engineering Research Council of Canada's Scholarship in Science Librarianship and Documentation.

Ms. Kate Jarrett is this year's recipient of the Atlantic Provinces Library Association Prize for the student in the graduating class who, in the opinion of the Faculty of the School of Library Science, shows the most professional promise. Ms. Jarrett graduated in English/Film Studies from Queen's University. She also studied music at Warren Wilson College in North Carolina. She has worked at the Archive of Folk Song, Library of Congress and at the Kitchener Public Library.

Gloria Corbett of Shelburne, N.S., a new student in the Master of Library Science program this year, has received a scholarship valued at \$10,500 from the Natural Sciences and Engineering Research Council of Canada (NSERC) awarded for the study of ocean librarianship and documentation. Ms. Corbett, who has degrees in nursing and zoology, is presently employed at the Shelburne Branch of the Western Counties Regional Library.

Claire MacDonald, a first year student in the School of Library Science, was this year's recipient of the Alberta Letts Award. She will attend the Canadian Library Association annual conference to be held in Winnipeg this summer. Ms. MacDonald has her BA from Dalhousie and worked for the Prince Edward Island Heritage Foundation in Charlottetown and the Halifax City Regional Library before being admitted to Dalhousie in September, 1982.

By this annual award Dalhousie honours the memory of Miss Alberta Letts, a former president of the Canadian Library Association who, at the time of her death in 1973, was Provincial Librarian of Nova Scotia.

GOLDBLOOM ELECTED TO NATIONAL POST

Dr. Richard Goldbloom of the department of paediatrics was elected second vice-president of the Canadian Paediatric Society during its annual meeting recently.

LEIGHTON HONOURED

Dr. Alexander Leighton, professor of psychiatry in the Faculty of Medicine and recipient of a National Health Scientist Award, has been elected to the position of Fellow of the Royal College of Psychiatrists.

The award, given for his distinguished service to humanity in the study, prevention and treatment of mental illness, was conferred on Dr. Leighton at the annual meeting and dinner of the Royal College in Bristol, England this summer.

Dr. Leighton, formerly of Harvard Medical School and now at Dalhousie in the County of Digby County, has conducted the world's longest continuing study of the mental health of a population in an area of Nova Scotia.

National Universities Week

Let's celebrate ourselves! Universities across Canada will take on a higher profile during National Universities Week (NUW) Oct. 2-8, when they celebrate the achievements of higher education in Canada. The theme for the week is *We Have the Future in Minds*, and its purpose is to draw attention to the value of teaching, research and cultural and public service activities.

At Dalhousie, the major activities will be in a cultural vein. The Music department will dedicate its all Brahms concert on Sept. 25 to the national universities week concept. They will be joined by the university's Art Gallery. They will also honour the concept with two major showings — works by Cornelius Krieghoff from the Sobey collection and the Tom Sherman exhibit.

University presidents in Halifax will join in a panel discussion on the contri-

bution their particular institution makes to the cultural life of the community (Oct. 4).

The Dalhousie Student Union, in cooperation with the Alumni, will hold a leadership conference during the week, and CBC Radio Ideas will feature five one-hour programs entitled *Hard Times in the Ivory Tower*.

The kick-off event at Dalhousie will be the President's Sport Festival on Sept. 30. The festival continues on Oct. 1 and members of the university are invited to join in the fun spirit and enter a team. Also on the spirit of National Universities Week is the Dalhousie Staff Association (DSA) will provide a juice booth all day Saturday for the teams.

Other events during the week include campus tours, films and music. Watch for the complete schedule in the *Halifax Herald*. RG



We have the future in minds.

Dalhousie

WATERLOO'S INSTITUTE FOR COMPUTER RESEARCH GETS \$1.1 MILLION FROM NSERC

The Natural Sciences and Engineering Research Council (NSERC) announced the awarding of a large infrastructure grant totaling \$1.1 million to the University of Waterloo's Institute for Computer Research for maintenance of hardware and software and for custom hardware development. The award will be paid out over three years in instalments of \$365,000.

The Institute for Computer Research at Waterloo comprises eight research groups in the university's faculties of Engineering and Mathematics, including researchers from the Departments of Computer Science, Electrical Engineering and Systems Design Engineering. Current areas of research include hardware and software system architecture, office automation, computer networks, interactive human interfaces, symbolic mathematics, machine intelligence and very large scale integration (VLSI). Projects supported by the institute range from pure research into fundamental issues in computer technology to applied research concentrating on the practical aspects of design, implementation, maintenance and documentation of software systems.

ARTHUR BOURNS JOINS NSERC AS VISITING RESEARCH OFFICER

Dr. Arthur N. Bourns, President of McMaster University (Hamilton, Ontario) from 1972 to 1980, joined NSERC as Visiting Research Officer.

During his term as Visiting Research Officer with NSERC, Dr. Bourns will work closely with the President, Gordon MacNabb, to develop the framework for Council's next Five-Year Plan. He has stepped down as a member of Council for this period.

The Dal News

Dal News is published by Dalhousie University for members of the Dalhousie community. Produced by the Public Relations Office, Dal News is published every two weeks between September and April, with a break at Christmas and occasional summer issues.

The staff of Dal News includes: Dick Bowman, Director of Public Relations; Derek Mann, Director of Publications, Editor-in-Chief; Gina Wilkins, Senior Information Officer, Editor; Susan Williams, Information Officer, reporter; Kathi Petersen, technical production assistant.

Final deadline for inclusion of items in Dal News is noon Thursday before the following Thursday's publication. Inquiries and submissions should be addressed to The Editor, Dal News, Public Relations Office, N.S. B3H 3J5, Tel. (902) 424-3643.

ROPER NAMED KING'S V-P

Dr. Henry Roper has been appointed Vice-President of the University of King's College, succeeding Dr. J. Patrick Atherton, who resigned the position in order to devote more time to research.

Dr. Roper graduated from Dalhousie with first class honours in History in 1961. He then studied in Duke University and at Cambridge, from which he received his PhD in the field of British social administration in the later nineteenth century. He has published a monograph, *Elementary Education Act, 1870-1885*, as well as a number of articles and reviews in British and Canadian journals. Before coming to King's Dr. Roper held positions as Lecturer and Assistant Professor of History at Mount Saint Vincent University, Halifax, and Huron College, London, Ontario.

Dr. Roper will continue with his teaching responsibilities in the Foundation Year Programme and as University Registrar.

ST FX GETS GALEIC STUDIES CHAIR

A chair in Gaelic studies is to be established at St. Francis Xavier University, through matching grants of \$300,000 from the endowment assistance program of Multiculturalism Canada and the Antigonish Highland Society. The \$600,000 chair will be placed on an endowment trust account and the income earned will enable the university to hire a full-time professor of Gaelic studies. This is the fifth chair to be funded by the federal program. Others have been funded at the University of Toronto (chairs in Hungarian and Ukrainian studies), University of Winnipeg (Chair in Menorah studies), and the University of Moncton (chair in Acadian studies). Under the endowment assistance program federal contributions are available for chairs relating to Canadian/immocultural groups in: humanities, social sciences, communications and fine arts, on the condition that matching grants are provided by the sponsoring voluntary organization.

COLLEGE OF CAPE BRETON APPOINTS V-P

Dean W.J. Gallivan has been appointed Academic Vice-President of the University College of Cape Breton. Mr. Gallivan's appointment will be for a three year period, from July 1, 1983 to June 30, 1986.

AUCC NAMES DIRECTOR OF INTERNATIONAL DEVELOPMENT OFFICE

The Association of Universities and Colleges of Canada (AUCC) has announced the appointment of Donald Rathjap Campbell as director of the Association's International Development Office (IDO). Dr. Campbell was President and Vice-Chancellor of the University of Manitoba from 1976-1981. He has served as a consultant to the governments of Barbados, Ghana and Jordan and is currently an economic advisor with the Rockefeller Foundation to the government of Kenya.

The IDO was established in 1978 to enhance the role of Canadian universities in international development. Funded by the Canadian International Development Agency (CIDA) and the International Development Research Centre (IDRC), the IDO serves as an information clearing house for Canadian universities and Canadian and foreign agencies involved in international development. One of its main functions is to make Canadian universities more aware of development opportunities and to help them establish cooperative projects with their counterparts in Third World countries.

NO CONTEST FOR REGINA'S CHANCELLOR

Derril McLeod of Regina was elected by acclamation to a three-year term as chancellor of the University of Regina. McLeod, a partner in the Pedersen, Norman, McLeod and Todd law firm, has long been active in the University of Regina's affairs. From 1971 to 1974, he was vice-chairman of the University of Saskatchewan's Board of Governors and from 1974 to 1980 was chairman of the University of Regina's Board of Governors.

ALBERTA RE-APPOINTS HOROWITZ

The University of Alberta Board of Governors has now approved a recommendation from its Presidential Review Committee to re-appoint Myer Horowitz as President. Dr. Horowitz will begin his second term August 1, 1984 for a five year period.

Dr. Horowitz assumed the presidency August 1, 1979 after serving as University Vice-President (Academic), Dean of the Faculty of Education, and professor and chairman of the department of elementary education.

Dal anatomy researchers awarded over \$319,000 in grants

Nine scientists in the university's anatomy department have been awarded a total of \$319,000 to support their current year's research programs. The funds came mainly from the Medical Research Council of Canada with the National Science and Engineering Council contributing \$32,860 and the Department of National Defence, \$30,028.

The awards will aid continuing research under the direction of Dr. D.G. Gwyn, head of the department. Dr. J.G. Rutherford, Dr. D.M. Nance, Dr. D.H. Dickson, Dr. R.A. Leslie, Dr. S.R. Blecher, Dr. David A.

Hopkins, and Dr. R.J. Wassersug, Dr. R.W. Currie, a new member of the department, will begin a project involving protein synthesis with his grant of \$24,750 from the Medical Research Council.

Five graduate students working towards Masters and PhD degrees and 13 research assistants will be employed on the project. The grants also provide funding for the supplies necessary to undertake the basic science studies in the fields of neuroanatomy, neuroendocrinology, vision, genetics and evolutionary biology.

Grad House wins softball tourney

The Graduate House team took top honours last weekend in the second annual Olands Invitational Co-ed Softball Tournament. The team, comprised of graduate students and members of the Graduate House club, persevered against tough opposition to win the event, which involved 17 Dalhousie teams, all part of the Dalhousie Summer Softball League.

The Graduate House worked its way up through the pool of brackets, defeating the Computer Centre 16-5, Dalplex 9-7, Distry 24-11 and Mechanical Maintenance 9-8 to meet

Anatomy, winners of the A pool, in the finals, defeating them 14-2.

"The competition was tough right from the first game," said Mark Wannamaker, coach of the winning team, "but my team was tougher, making key plays when they were needed."

The team won a trophy and Schooner kit bags, courtesy of Olands Breweries Ltd. The event was organized by Heather Shute of Campus Recreation, who, all the participants agreed, did a fine job in making it a fun weekend of keen competition. GW

Sigma Chi wins international fraternity award

The Sigma Chi chapter at Dalhousie University received the Peterson Award, the Chapter Award from the international fraternity at its annual Leadership Training Workshop held at Bowling Green State University, Ohio, in August.

The Peterson Award is the highest honor a Sigma Chi chapter can achieve, as it recognizes outstanding performance in all major fields of operations, programs and activities. Each of the fraternity's 180 active chapters is encouraged to apply annually for the award, and a record number of 76 won the distinction for the 1982-83 academic year.

The college or university where each winning chapter is located receives a dona-

tion for its counseling and tutoring program from the fraternity's foundation, which sponsors the award. The criteria for the award include acceptable performance levels in the areas of member graduation persistence, scholarship and leadership along with campus, community, faculty and alumni relations.

The Sigma Chi Fraternity has 180 campus chapters throughout the United States and Canada, 110 active alumni chapters, and more than 137,000 living and student members. It was founded in 1855 at Miami University, Ohio, and is headquartered in Evanston, Illinois.

Lest ye forget...

Hey, frosh, remember all that advice you received a couple of weeks ago during orientation? No? Well, with all that was going on, that's not surprising! But maybe now that you're settled in a bit, a review of Stairs' commandments, as presented by the man himself during the orientation convocation on Sept. 8, will help you maintain your sanity as you struggle with profs, books, assignments and social engagements. This is also printed for the benefit of you poor frosh who missed convocation, and as a reminder to the upper classmen who could probably also use this advice!



Dr. Denis Stairs of the university's Political Science department was invited to address the orientation convocation earlier this month. In an entertaining and educating talk, Dr. Stairs, by his own admission, attempted to "lay siege to a popular mythology about modern universities and about the professors who inhabit them" and "to offer a wee bit of practical advice." Dr. Stairs discussed the concept of the university as an "Ivory Tower" and its role in, and contribution to, modern society. He also outlined some simple guidelines for success in university, which he called Stairs' Commandments (there are only six — "If I add any more, you'll begin to think I'm honing in on Someone Else's territory").

STAIRS' COMMANDMENTS

1. Pester your professors. "If you have questions or problems, or Heaven's sake, don't hesitate to see your instructors."
 2. Remember that professors have biases, like everyone else, and watch out for them. "Be a doubter...carry around some grains of salt, and take a few with every lecture you hear."
 3. Come to class and TAKE NOTES. "I swear I can give you all the beginning of your university career no more immediately practical advice than this. Except, maybe, the Fourth Commandment."
 4. Do not procrastinate. "Try to pace yourself. No one else will do the pacing for you."
 5. Treat the library as a resource, not an oppression. "...ask. Ask sweetly, but ask. It's their job to answer, and they will be happy to do so."
 6. Take your assignments and examinations seriously, but not out of proportion. "...I don't suggest that you relax. But I do suggest that you try to keep it all in perspective."
- And a final comment: "We all bid you welcome, and we wish you Good Luck." GW

BLACK & GOLD CLUB ACTIVITIES

The Black and Gold Club will be conducting its annual membership drive in September and early October with the major draw occurring the weekend of Oct. 15/16 at the Lobster Pot Hockey Tournament.

The club provides support to the Dalhousie Athletic department through projects undertaken each year such as Sports Hall of Fame, the Alumni Lobster Supper and a training table for student athletes.

Membership in the Black and Gold Club includes (depending on contribution) an opportunity to win two tickets anywhere Air Canada Flies, one yearly family pass to Dixie, or a tournament pass to CIAU Basketball Final at the Metro Centre, March, 1984; as well as special post game Black and Gold receptions, tickets to varsity games, reserved parking at varsity games, and tax benefits.

For more information, contact Wayne MacDonald at 424-3752.

WANT A WHALE OF A WEEKEND?

Over the last few months whales have been sighted in the waters off northern Cape Breton. During September and October Whale Cruises will be departing each weekend from Cheticamp, Nova Scotia. How about searching for the whales from the 42-foot Bonnie Marline III? Even if you don't see whales there is an excellent chance of seeing bald eagles and seals, and the cruises are conducted along the beautiful rugged coastline of Cape Breton Highlands National Park. For further information and registration contact Joe Spears at 429-4223.

DAL ART GALLERY OFFERS CHILDREN'S DRAWING CLASSES

The Dalhousie Art Gallery is offering an eight week Saturday morning drawing class for children aged 10 to 14 years, beginning Oct. 7 from 9:30 to 11:00 a.m. Each of the weekly two-hour sessions will include both the weekend period and a workday, with an emphasis placed on the fundamentals of drawing. Topics covered will include line and three point perspective, light and shade, value scales, and studies in pencil, charcoal and pastel. The instructor is Susan Vey, who holds a degree in Fine Art and Art Education and has taught several children's art classes. The \$30 course fee will include instruction and all materials. Those interested are asked to pre-register by calling the Dalhousie Art Gallery at 424-2403. Enrollment will be limited to 15 students.

PREVENTIVE MEDICINE CHANGES NAME

The Department of Preventive Medicine changing its name to the Department of Community Health and Epidemiology last spring after Senate approval. According to department officials, the new name more accurately reflects the disciplines represented within the department and acknowledges the reality that teaching and research in the field of prevention is not the domain of only one department of the Dalhousie University Medical School.

Classified

You've finally decided to sell that extra car, but who's going to buy it? And those old text books you've had hanging around all summer — bet they'd be useful to someone. If you've got them something to sell or rent, or if you want to buy something, this space is reserved for you. Starting next issue (Oct. 6), DalNews will list your Classified ad, free of charge, just send your submission (please keep it as short as possible) and a request for how long you would like it to run (we will try to run it as long as possible, space permitting) to Classified, Dal News, Public Relations Office, Dalhousie University, Halifax, N.S. B3H 3J5. Please include a phone number where you can be contacted (phone numbers only published on request). Sorry, no phone submissions accepted.

DSU SEEKS BRAIN SPEAKERS

The Community Affairs Secretary of the Dalhousie Student Union is organizing a lecture series, *Brains*, and is looking for interesting lecturers to speak on subjects of topical concern. The series is intended to instruct, elevate and amuse, says Denise Mich, She's looking for suggestions or recommendations.

LOOKING FOR VOLUNTEERS?

If you need volunteers for your community group or volunteer agency, the Community Affairs Office of the Dalhousie Student Union can help. Call 424-3527.

IF ART'S YOUR THING...

Are you interested in art? The Art Gallery of Nova Scotia is sponsoring a Student Volunteer program which will give students an unusual opportunity to work behind the scenes. This year the group is planning to select works from the Permanent Collection to take out for presentation to groups that cannot visit the Gallery. If this interests you, please call Alice Hokin at 424-7542 by Sept. 23.

...AND THIS LITTLE PROVINCE GOt NONE

The University of Manitoba was the big winner this year in the provincial operating grants game, receiving a whopping 10.3 per cent increase in funding for a total of \$146.3 million for 1983-84. Alberta universities fared well, too, with increases of 8.7 per cent to \$349.9 million. The University of Prince Edward Island did the best out of the Maritime group, receiving a 7.8 per cent increase (\$10.4 million). Ontario universities got 7.5 per cent more for a total of \$1,100 million and Saskatchewan funding went up 7 per cent to \$129.2 million. The other Maritime institutions were in the middle of the pack, with Nova Scotia's universities receiving a 6 per cent increase for a total of \$144.9 million. New Brunswick received up 5.4 per cent to \$87.6 million, and Newfoundland's Memorial University got up 2.8 per cent more to \$65 million. B.C. universities were the big losers, receiving a flat 0 per cent more than last year's \$301 million.

TELIDON PROPOSALS SUGHT

Communications Minister Francis Fox has called for proposals for projects which will increase the amount of content available in the Telidon format.

Under the \$5 million program, the Government of Canada will contribute up to 30 per cent of the eligible costs of each project, with a maximum contribution per project of \$500,000 and a minimum of \$15,000. The major objective of the program is to increase the amount of high quality and useful content while stimulating immediate investment and employment in the Telidon industry. Eligible applicants include companies incorporated in Canada, not-for-profit organizations and incorporated educational institutions. The deadline for application is Oct. 3.

\$ SECURITY

During recent months, there have been a number of thefts of fairly large amounts of university funds left relatively poorly secured in offices overnight. According to Vice-president Robb, a check for \$10,000 was reported stolen from the Porter's desk in Howe Hall. This was only one of several incidents reported over the spring and summer.

"In an effort to curb this continuing loss of university funds," says Mr. Shaw, "it is proposed to establish a policy whereby the university funds in excess of \$1000 will be placed in a safe or vault during the overnight, holiday or weekend period. During normal working hours, Financial Services on the ground floor of the A&A building is available for the depositing of funds. After the normal working hours, the Security Office will be available to receive and hold funds for the overnight period. A safe will be placed in the Security Office for this purpose and the Security staff will be available for the movement of the funds to and from the Physical Plant Building as required."

NEW GRANTS TO ART GALLERY TOTAL OVER \$15,000

The Dalhousie Art Gallery has received two new grants from the Canada Council and the Nova Scotia Museum to assist in the production of exhibitions. A grant of \$12,500 was awarded by the Canada Council for *The 7th Dalhousie Drawing Exhibition*, scheduled for the fall of 1984. *Selected Actual Size*, will feature the work of Canadian and American artists who at one time or another have had contact with Halifax teachers, students, or visiting artists, including Richards Jarden, Bill Tucker, Mira Schor, Patterson Ewen, John McEwen, and Medrie MacPhee. Guest curator for the exhibition is artist/critic Robert Berling, who lived in Halifax for three years and was Director of Graduate Studies at the Nova Scotia College of Art and Design from 1974-1977.

A second grant of \$4,600 was awarded by the National Museums of Canada. This is an additional grant made toward the Dalhousie exhibition *Clara Schumann: Paintings and Drawings* and brings the National Museums commitment to the Paraskeva Clark project to \$43,300. The exhibition, which is now completing a successful national tour, has to date been seen by 79,000 people at the Dalhousie Art Gallery, the National Gallery of Canada, and the Art Gallery of Ontario.

The Art Gallery has received a total of \$131,967 from public and corporate sources outside the university since April, 1982.

BRAHMS CONCERT KICKS OFF MUSIC'S SEASON, SALUTES NUW

A wealth of Dalhousie's music talent will pay homage to Johannes Brahms in a concert in the Rebecca Cohn Auditorium on Sunday, Sept. 25, at 8 p.m.

This year marks the 150th anniversary of the birth of Brahms, the 19th century composer who was acknowledged as the Viennese master of his time.

Faculty members of the Music department will provide the music for the afternoon. Mezzo-soprano Elvira Gonella will sing a selection of songs by Brahms, accompanied by Lynn Stodola, pianist and Philippe Djokic, violist.

Miss Stodola and Mr. Djokic will perform works for violin and piano. Miss Stodola will also perform a piano group by Brahms. Pianist Tietje Zonneveld will team up with Miss Stodola for duo piano works.

Clarinetist John Rapson will perform Brahms' Clarinet Sonata in F Minor, accompanied by Tietje Zonneveld.

For further information, please call the Music department at 424-2418.