

Dalplex world's first

Raising the roof

By Gina Wilkins Slopek

In less than 15 minutes, one and a quarter acres of welded stainless steel were raised solely by air pressure into the low dome-shaped roof of the new Physical Education, Recreation and Athletic Centre last week.

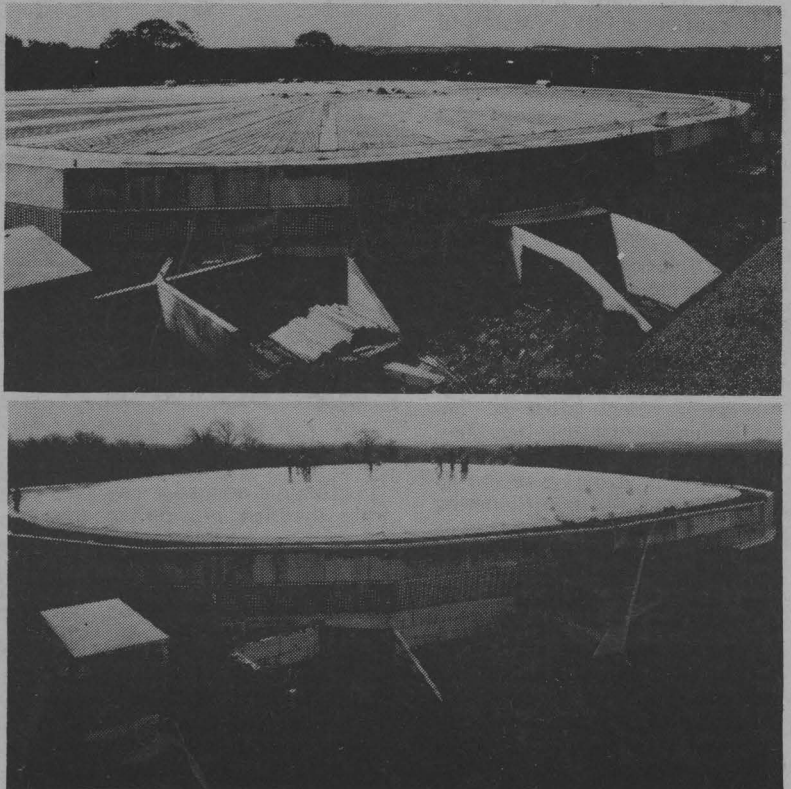
The world's first air-supported metal roof is all-Canadian in design, materials, fabrication and construction. It answers the university's need for a low profile structure with clear span together with the permanency of stainless steel at relatively low cost.

Stainless steel sheets, 1/16" thick, were first shop-welded into giant pie-shaped sections as large as tennis courts and rolled up like carpets and shipped to the job site. Here they were joined by welding to pre-formed wave-shaped stainless steel spring or expansion joint sections and anchored at the roof perimeter.

A modest increase in ventilation fan sizes provided the .05 pounds per square inch air pressure needed to inflate the roof and retain its domed shape. The design is such that, should air pressure drop, the roof would deflate into a concave shape still securely anchored at its perimeter. In this mode, its high strength stainless steel construction can support heavy snow loads.

The new stainless steel roof covers the 300 foot long by 240 foot wide main floor of the new sports complex. The design completely eliminates the need for upright support columns as well as the customary network of structural steel that would normally be required to span such a large area. This allows greater flexibility in utilizing the space for basketball, tennis, volleyball, badminton and other athletics.

The roof rises 35 feet above the floor at the centre and 25 feet at the walls. As construction progresses, a domed ceiling of thermal and acoustical insulation, as well as lighting, will be suspended from the roof.



The unique concept in roof design was created by Sinoski Engineering Limited, Willowdale, Ontario. The stainless steel was produced by Atlas Steels at its Tracy, Quebec Plant. Roof components as well as on site field erection was performed by Blenkhorn and Sawle Limited, St. Catherine's, Ontario. Architects for the building are Leslie R. Fairn & Associates of Halifax. Structural Engineers are C.D. Caruthers & Wallace Consulting Engineers Ltd., Toronto. Chebucto Engineering, Halifax are the Mechanical Engineers and Fraser Brace Maritimes Ltd. are the construction managers.

The official opening of the new complex is scheduled for September, says Ken Bellemare, director of athletics, with tentative plans to coordinate it with the fall convocations for a weekend of festivities.

"We're hoping to get in by

late July. That will give us time to get the systems organized and to familiarize ourselves with the new facilities."

Some new programs will be instituted when the complex opens, says Bellemare. "The key thrust will be to make the facilities and equipment, and the personnel, more accessible."

"The School of Physical Education will still use the old gym to simulate practice teaching, said Bellemare. Smaller classes like dance will also be conducted there.

Decisions still have to be made about the outdoor track's improvement. There is strong support for the idea of converting the parking lot currently located on the old rink site into recreation facilities as well.

No decisions have been made regarding a new rink, although several sites are being considered.

Hatcher elected as foundation chairman

By Barbara Hinds

Dr. J.D. Hatcher, dean of medicine, was elected interim chairman of the board of directors of The Dalhousie University Faculty of Medicine Research and Development Foundation at its February meeting.

Mrs. Arthur Balders, Halifax, was elected vice-chairman of the foundation which has now been incorporated as a charitable institution.

The foundation was established four months ago to raise a capital of \$10 million which will be invested, and the interest used to support research and development in the faculty of medicine, where scientists and clinicians are hard hit by government stringency and by inflation.

In addition to Mrs. Balders, directors of the foundation include prominent Maritime businessmen H. Reuben Cohen, Moncton, N.B.; Gordon F. Hughes, Windsor, N.S.; James J. Kinley, Lunenburg, N.S.; Wm. M. Sobey, Stellarton, N.S.; and Elliott Spafford, Halifax, N.S. The directors will advise on the investment of capital, which is expected to increase signifi-

cantly after a fund raising campaign which will begin shortly.

The foundation was launched with a gift of \$500,000 from Mrs. Balders and her family. Since then, the initial gift has been augmented by contributions and bequests to a current total of nearly \$1,000,000.

Dr. Hatcher conceived the idea of a foundation to support excellent research programs at a basic level, and to attract and keep first class scientists at Dalhousie University medical school.

Advantages from vigorous enterprise in medical research and development will be reflected in the care of patients, the education of medical students in a progressive environment, and the retention of career scientists in the Maritimes at a time when many Canadian medical researchers are being forced to migrate to the U.S.A. or to give up research in favor of more secure employment.

The board of directors will next meet at 4 p.m., March 22, in the Sir Charles Tupper Medical Building.

Differential fees

"Universal trend" says MacLean

By Gina Wilkins Slopek

"The idea that most foreign students are from underdeveloped countries with inadequate academic institutions is a myth, said Dr. Guy MacLean, vice-president (academic and research), at a panel discussion on the role of the university in international development held last week. Speakers on the panel included Dr. MacLean, Dr. Henry Hicks, and Dr. Ian McAllister of the economics department.

Dr. MacLean addressed the small group in attendance on the subject of the \$750 decrease in provincial government aid for foreign students. "I'm defending the action of the government of Nova Scotia," said MacLean, "in essence saying what they would say if they were here."

"Most of Dalhousie's foreign students are from developed countries with good academic institutions like Harvard and Cambridge," MacLean said. Of the 538 full-time foreign students at Dalhousie, over 400 are from developed countries.

"It's the responsibility of any good university to provide education to the less developed countries (those without universities or without good programs in existing universities), and to developed countries," the vice-president said. "But we get the two mixed and intertwined. The education of foreign students from developed countries achieves several things—mutual enrichment and international understanding—but not international development.

"The instinct in Nova Scotia has been toward aid to developing countries. This has been expressed in our reluctance to adopt differential fees. Nova Scotia university presidents wouldn't accept it. This was also the position of the MPHEC, the students and the Nova Scotia government. Last year Terry Donahoe came out against such a move.

"I have been rather proud of that attitude," MacLean said, adding, however, that he feels

Cont'd on Page 2

Spring convocations will be held in Cohn

By Derek Mann

All of Dalhousie University's spring convocations this year will be held in the Cohn Auditorium of the Arts Centre as a result of the loss by fire last year of the Memorial Rink, where the larger ceremonies used to be held.

Bruce G. Irwin, the university's convocation co-ordinator, said yesterday that eight convocation ceremonies would be held between May 9 and 25.

"Because of the size of the graduating classes and the number of parents and guests expected to attend four of the ceremonies in the Cohn Auditorium, closed circuit television will be set up in two rooms outside the auditorium," he said.

Admission to the two rooms—the fourth floor lounge in the Arts Centre and the MacAloney Room—will be by special ticket for the 250 seats available. The Cohn Auditorium has a seating capacity of 1100.

"On at least two of the convocations, we expect that seating will be at a premium," said Mr. Irwin.

Tickets for Arts and Science and Graduate Studies convocations may be picked up at the Alumni Office from April 1-15. Tickets for other convocations will be distributed by the Faculties involved.

Following is the convocation schedule:

Wednesday, May 9, 9:30 a.m.: Dentistry (DDS).

Wednesday, May 9, 11:00 a.m.: BEd, MEd, MBA, MPA, Dip. PA, MLS, MSW, Dip. SW, MN, LLM, MA, MSc, PhD.

Thursday, May 10, 10 a.m.: BCom, CPA.

Thursday, May 10, 2 p.m.: BSc, BSc (Eng-Phys), Dip. Eng.

Friday, May 11, 10 a.m.: BSc (Pharm), BN, BPE, BSc (Health Ed), BRec, BSc (Physio), Dip. OP, PHN.

Friday, May 11, 2 p.m.: BA, BMus, BMusEd, Cert. Costume Studies, Dip. Costume Studies.

Friday, May 18, 10:30 a.m.: Law (LLB).

Friday, May 25, 10:30 a.m.: Medicine (MD).

A.C. Neish Memorial Lecture

Hayes will talk on religion, evolution

Dr. F. Ronald Hayes will give the third A.C. Neish Memorial Lecture on March 16 at 8 p.m. in the Lecture Theatre, Sir James Dunn Science Building, Dalhousie University. His topic will be "The Evolutionary Basis for Religious Belief."

The lecture series was founded in 1975 to honour the memory of Dr. Neish, a native of Nova Scotia who served for many years as the director of the Atlantic Regional Laboratory, National Research Council.

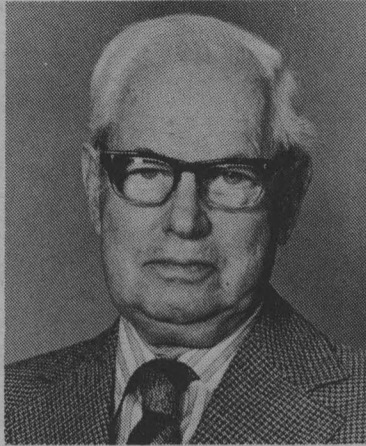
Dr. Hayes is also a native Nova Scotian. Most of his distinguished career has been spent at Dalhousie University, but for six years he served as Chairman of the Fisheries Research Board of Canada.

His positions at Dalhousie included Founding Director, Institute of Oceanography, 1959-64; First Chairman of the Division of Biological Sciences, 1959-64; Vice-president, 1963-64; and Founding Director, Institute of Environmental Studies, 1973.

Dr. Hayes's lecture will deal with a recent controversy among biologists, focused particularly among a group at Harvard. One of them, Professor Edward O. Wilson, has written a trilogy dealing with the effect of natural selection and heredity on behaviour, based on studies leading from social insects through social mammals to man.

Natural selection, it is asserted by Wilson, plays a significant part in determining important characteristics of human behaviour. Measurement of the extent of the genetic effect offers a challenge for future research.

However, Marxist biologists contest Wilson's whole approach, saying that no research on man can be correct or permissible if it leads to the acceptance of undesirable social ideas.



F.R. Hayes

Wilson's accusers say that his theories provide an important aid to promoters of everything bad up to genocide, fascism, racism, and sexism.

Although Marxism is put forward as a political system, Dr. Hayes will examine evidence which suggests that it is in reality a religion of our times, and that the Marxist critics of evolution have the same base as the churchmen of a century ago.

In his most recent book, Wilson develops his conclusion that altruism and religious practices can be mapped onto the two dimensions of genetic advantage and evolutionary change.

Dr. Hayes will examine the implications of the controversy over scientific belief, religious belief, and truth in his lecture.

The A.C. Neish Memorial Lectures are organized by a trust which administers a fund established by friends and research associates of Dr. Neish. The income from the fund is used to sponsor public lectures by eminent scientists.

CBC series looks at work

The Quality of Working Life will be the theme of a five-part television series which will be shown on CBC stations in the Maritimes from 10 to 10:30 a.m., March 12 - 16.

The series was produced by the Advanced Management Centre and the Canadian Broadcasting Corporation with support from Labour Canada.

The programs are designed to provide an in-house educational opportunity for managers, union leaders, and employees.

The first program, on March 12, introduces the viewer to the idea of the quality of working life, explaining main concepts and issues through interviews with consultants, managers, union leaders, and employees who have had experience with quality of working life projects.

The remaining programs will examine specific quality of working life projects undertaken by a number of Canadian organizations.

The series will be shown on CBC stations across the country at different times in the near future.

So you got a parking ticket? —Here's why

If you've been parking your car on campus without the necessary parking sticker or one-day permit, or if you've been squeezing your auto in under a no parking or reserved sign, you'd better take heed! The parking committee and the traffic department warn you that they've augmented their patrol staff and are stepping up surveillance procedures.

Six traffic department staff members were recently sworn in with the Halifax city police as special constables. They are now authorized to administer the motor vehicles act, issuing \$15 tickets to parking violators. If you want to park on campus, one day passes are available at the booth in the Dunn parking lot. Season permits are available at the traffic office.

You want to leave your car on campus overnight? You need a special permit for that. From now on, according to Don Miller, chairman of the parking committee, cars with regular permits found parked on campus after 1 a.m. will be ticketed.

Other changes are in the offing as well. The committee is considering issuing temporary permits to new staff on three-month probation. This and other suggestions will be dealt with in a meeting to be held in the near future. Watch the **University News** for an update.

Leave fellowships for four professors

Four Dalhousie professors are among the three hundred and forty-five academics in the humanities and social sciences who have been awarded leave fellowships by the Social Sciences and Humanities Research Council of Canada.

John Flint, history; John Graham, economics; Peter Schotch, philosophy; and Denis Stairs, political science; have been awarded varying amounts to continue research while on sabbatical leave in the coming year.

John Flint, on leave from July 1 to June 30, 1980, will use his grant to complete a piece of research studying the origins of British de-colonization in Africa after World War II. The work is now possible, says Flint, because British documents on the subject were recently released.

Also on leave from July 1 to June 30, John Graham will use his fellowship in exploring the relationship between Canadian economic institutions, especially the market and the character of Canadian society, with possible particular reference to such issues as national unity and foreign ownership. This research is related to Dr. Graham's past work in inter-governmental fiscal relations, regional economic development, provincial and municipal finances and university finance.

Peter Schotch, on leave until June 30 of this year, is writing a book on logic, "General Frame Theory", with a colleague, Ray Jennings. He will also be conducting research in Europe in April.

Political science professor Denis Stairs has several projects planned for his leave, which also lasts from July 1 to June 30. The main undertaking will be a book on foreign policy in Canada. Another is the completion of "Canada in World Affairs, 1967-69", a book which is currently in progress. The third project is the revision of a textbook on the making of Canadian foreign policy by James Eayres. Stairs is one of two former students of Eayres who will be helping with the revision. Eayres will be on campus next year to oversee the project.

Leave fellowships are awarded to university scholars who have held full-time faculty appointments at Canadian universities for at least five years and who wish, while on leave of absence, to undertake some form of creative scholarship. The fellowships are intended to make up for recipients' loss of income when universities only pay partial salary during sabbatical leave. Additional allowances for travel and for research expenses have been granted when needed.

Differential fees

Cont'd from Page 1

the sentiment should now be placed against the facts. "The universal trend is toward differential fees," he pointed out. "In Canada, all except the Atlantic provinces have either open or differential fee systems. Where does that leave the comparatively poor provinces and universities?"

When asked about the possibility that foreign student enrolment might go down in Nova Scotia due to the differential fees, Dr. MacLean responded that it is not likely. He cited the United Kingdom as an example. Foreign student enrolment remained about the same when higher fees were announced there.

Other Atlantic province governments have not yet announced the amount they will spend on universities in the coming year, nor have they announced any differential fee systems. Asked whether it was possible that Nova Scotia might lose foreign students to other Atlantic universities, should the other provinces not follow Nova Scotia's lead, Dr. MacLean said he did not think so, pointing out that UNB already has quotas regulating out of province enrolments.

Dr. Henry Hicks, Dalhousie president, spoke out against the recent move. "I think it's most regrettable that the Nova Scotia government has decided to discriminate against foreign students," he said.

"Canada is a debtor country as far as higher education is concerned," Hicks claimed. Many on Dalhousie's faculty have obtained their higher

degrees from universities outside of Canada. "Just when Canada is rich and sophisticated enough to offer good higher education, differential fees are declared. It's a pity."

"I don't like it," Dr. Hicks added during the question period, acknowledging, however, that it is a recognition of the fact that the Nova Scotia people pay 70 per cent of the cost of educating students, and, in the case of foreign students who return to their own country when their education is complete, gain little in return.

"The role of the university is to teach and do research," the president said.

"Universities are not responsible for solving all the social and economic problems of the world. Universities are not welfare agencies."

In terms of international development, he said, universities can help by taking in foreign students for training and by supplying teachers to developing nations.

In Canada, the greatest agency in terms of contributions so far is the Canadian International Development Agency. Most Canadian universities' activities abroad have occurred as a result of the creation of CIDA, Dr. Hicks pointed out.

Dalhousie itself has coordinated many development projects with CIDA. Examples are the supply of professors to the medical school at the University of the West Indies, and Professor Ian McAllister's recent project in Ghana.

In other areas, the trace analysis centre, which has involved a Ceylonese scientist who is investigating the application of a similar centre in Sri Lanka, and centres such as the African Studies facility, illustrate Dalhousie's involvement in international development, according to President Hicks.

Dr. Ian McAllister addressed the panel on a specific example of Dalhousie's participation in international development, the Ghana project.

Dalhousie and the Ghana Institute of Management and Public Administration were the implementing agencies of the Ghana project, a training program for Ghanaese public servants. With the aid of a slide presentation, Dr. McAllister illustrated various areas of foreign aid and how training in project identification and management helped to get specific projects off the ground.

The panel discussion was one in a series of global development sponsored by the Office of the Overseas Student Co-ordinator. Forthcoming sessions include a lecture and slide show on "Environmental Aspects of Development" with Dr. A.J. Hanson, 8 p.m., March 16 in the MacMechan Auditorium, and "Am I my Brother's Keeper: Canada's Role in International Development", a lecture by Donald Jamieson, Secretary of State for External Affairs, on March 29 at 8 p.m., room 115, Weldon Law Building.

UNIVERSITY NEWS

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

Final deadline for inclusion of items in the paper is 11 a.m. the Monday preceding Thursday publication.

The staff includes: Derek Mann, Editor-in-Chief; Eric Cameron, Editor; with the assistance of Roselle Green, Gina Wilkins Slopek, Barbara Hinds, Pam McWhinnie, Marge Veitch, and Doreen St. Onge.

Inquiries and contributions should be sent to The Editor, University News, Information Office, Dalhousie University, Halifax, N.S., B3H 3J5. Telephone 902-424-2517. Registered as third class mail, permit number Dartmouth N.S. 59.

Alumni Association

Keeping in touch . . .

By Roselle Green

College reunions are a time for handshakes and get-togethers; a time to pause and reflect; to reminisce; to be nostalgic about the "good old days."

Dalhousie's spring reunion fits into this pattern with a slight difference. This year members of the class of '09 and '19 will hold centre stage along with the classes of '29, '39, '49 and '54. It will also mark the debut of the class of '79 as new Dal alumni.

Reunions are one way of bringing alumni back to their alma mater. But keeping in touch with 22,000 former graduates throughout the year is also important, according to Coleen Khattar, assistant director of alumni affairs. She's charged with arranging reunions and publishing *Alumni News*, a mechanism used to keep alumni "in touch."

Another worthwhile venture is the alumni association's programs. One that has proven to be highly successful is a pizza party and movie night for prospective graduates. A second is the alumni liaison program where alumni serve as a go-between and host to first year students who want or need an alumni contact. A tutoring service, begun in the 60s and aimed at assisting high school and university students, continues to attract interest.

The association, headed by Peter McDonough, is putting a new project in place. It's an alumni award for excellence in



Former graduates turned out recently to support the Dalhousie hockey team at an event billed as Alumni Appreciation Night. In addition to a fine display of hockey at the Metro Centre, four lucky people enjoyed dinner compliments of the Newsroom Restaurant. Overseeing the draw are alumni president Peter McDonough, Dr. Larry Maloney, director of the School of Physical Education, and Gary Hurst of the Newsroom Restaurant.

teaching to be given to a faculty member. The selection of the first recipient is scheduled for the spring of 1980.

Focal point for all the activities is the Alumni Office headed by director Bruce Irwin. He sees the role of the alumni association as promoting the best interests of the university. He feels the alumni are guardians of the past and the future. As the largest segment in the university community, they have a responsibility, along with others, in ensuring that the high quality of education be

maintained.

His views are shared by the president, Dr. Henry Hicks, who has always been an advocate of close contact with alumni. He says over a period of time the reputation of the university is based in no small measure on the achievements of its graduates. They are an integral part of the university community and their participation in the governance of the university is invaluable. Alumni are one of our greatest resources and it's important for the university administration to stay in step with them.

Dal wins hockey, swimming medals

Two Dalhousie varsity teams raked in the honours in intercollegiate competition last weekend.

In swimming, Dal students Susan Mason and John Van Buuren were named top female and male performers at the Canadian Intercollegiate Athletic Union meet held in Montreal.

Mason established two new CIAU records and won three gold medals in the competition, while Van Buuren captured one gold and two silver.

Mason's records came in the 200 metre and 400 metre freestyle events with times of 2:06.70 and 4:23.44 respectively. She also won the 800 metre freestyle in 9:01.90.

Van Buuren won the 200 metre butterfly in a new AUAA record of 2:04.40 while finishing second in both the 200 metre individual medley and 100 metre backstroke. Van Buuren's times in those events were 2:00.45 and :59.26 respectively, both new AUAA marks.

Janie Flynn of Dalhousie also won a gold medal with an upset victory in the women's 100 metre butterfly in a time of 1:07.09 (new AUAA record).

Overall, the men's team ranked fifth in the competition (they placed eighth last year), while the women grabbed seventh spot, an improvement of three placings over their previous best.

In hockey, the Dal Tigers swept the best-of-three AUHC

semi-final series against the University of Moncton Blue Eagles two games straight with a 5-2 victory Friday night and a 4-1 win Saturday afternoon at the Halifax Forum.

Shawn MacDonald scored two markers for the Tigers while Ray Off and Bob Dugan netted singles in the Saturday match.

The Tigers erupted for three unanswered goals in the third period of the first game Friday night, downing the Blue Eagles 5-2.

Shawn MacDonald, Rick MacCallum and Mike Brennan scored during a two minute, seven second span in the last session to give the Tigers the win. Bob Duggan and Ray Off also scored for the winners.

Coach Page was pleased with his squad's ability to keep down the goals against.

"We're playing playoff hockey," he said. "We didn't want to make any predictions, but we tried to keep our goals against down. In the first game we had two goals against and in the second we had just one. That's playoff hockey."

The Tigers will be pitted against the St. Mary's Huskies in the finals this weekend.

Dalhousie also did well at the national gymnastics championships. The team placed fourth overall, and team member Shawn Healy placed fourth in best all-round gymnast and won a bronze medal on the horizontal bars.

Manos awarded grant, analyses adolescent attitudes

Dr. Jim Manos of the education department was recently awarded a \$7,518 grant by the Social Sciences and Humanities Research Council of Canada for a project entitled *Adolescent Attitudes, A Comparative Study, 1969-1979*.

Dr. Manos conducted the original research for this study in 1969 as part of his Master's thesis. At that time he studied a sample group of adolescents, ages 13 to 16, from schools throughout Nova Scotia, assessing their attitudes towards self and authority figures (school, teacher, police), and some racial attitudes.

Beginning March 1, a graduate student in education, Howard Solverson, will gather data for the present comparative study. Using the same schools, another sample group of students will be tested on the same dimensions to see if changes in attitudes have taken place. One theory the study will examine is that adolescents at ages 13-16 are maturing more quickly than in the past.

Research for the project is expected to take about one year. Dr. Manos plans to publish his results when the work is completed.

Club plans expansion

The Board of Directors of Dalhousie Faculty Club hopes to begin a development program soon that will provide a bar-lounge with a "pub" atmosphere, it was learned last week.

Since the club opened in 1972, it has been largely an eating-at-lunchtime establishment, with occasional evening functions.

The bar in the dining room has been considered for some time a drawback and now, according to one director, plans are being studied for the expansion of the club.

Coupled with the development proposals will be a membership drive. The club's membership has dropped in recent years from about 700 to about 600.

Early last week, the club came under new management; for an interim period of three months, Beaver Foods Ltd., which caters to the two on-campus residences and the SUB, is providing management service. Existing staff have been retained and the new manager is Mr. Stan Smith.

Results of a membership survey carried out in February have been mailed this week to all members.

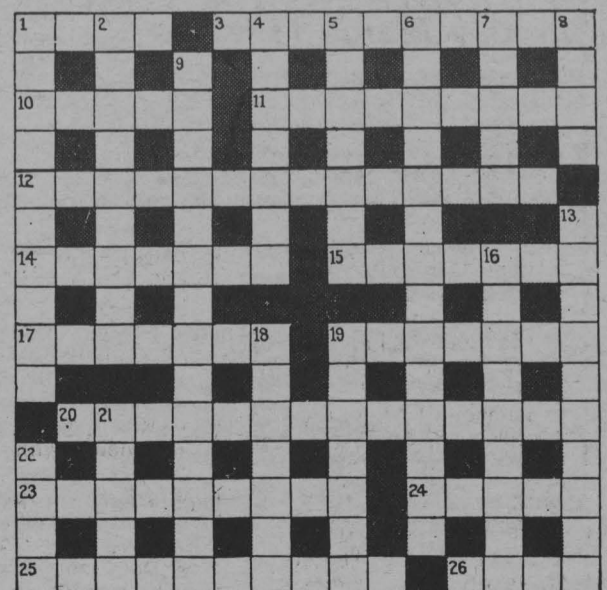
Of the 565 questionnaires mailed to members, 365 were returned—a 64.6% response.

CROSSWORD

ACROSS No. 2794

- 1 Do you want that scarf in the window? (4)
- 3 Refuse to handle the stuff on canvas—dark stuff. (5, 5)
- 10 I'm gone into the perfect state of insect life. (5)
- 11 Top man in the courts and the winning coup he likes to bring off. (6, 3)
- 12 Kids' game recommended by the newspaper editor? (6-2-6)
- 14 New doctrines only gone wrong if pointless. (7)
- 15 Jumper after taking a lot of exercise? (7)
- 17 Getting support when inactive. (7)
- 19 Very rich man sounds as if he can make us laugh! (7)
- 20 Food at Eton? How sweet! (7, 7)
- 23 Turn Paul into treasurer initially and make a considerable contribution. (3, 2, 1, 3)
- 24 Abridge cover between similar notes. (5)
- 25 Means by which a couple of feet are added to one half of the horse? (4-6)
- 26 Inside that covered entrance lies the garden. (4)

- 4 Not on time to meet the girl as summer's approaching. (4, 3)
- 5 Chartered accountant lends recipe for burners. (7)
- 6 Just one of the troops not necessarily in the secret service! (7, 7)
- 7 I estimate it's angry. (5)
- 8 Platforms in the river. (4)
- 9 No men are (according to Donne, more or less) under a wise ruler in the Pacific (7, 7)
- 13 Tell secrets about the putting area? Very bright! (5-5)
- 16 Declared it fits Dee after a fashion. (9)
- 18 Rolled the eyes when wearing spectacles. (7)
- 19 London, perhaps, placed at the head. (7)
- 21 Made a choice in the depot. (5)
- 22 What some workers do when the soup is poured out? (4)



This prize crossword puzzle appears in every second issue of the weekly paper.

\$10 will be awarded for the first correct entry opened; this does not necessarily mean the first correct entry received in the information office.

All members of the university community—faculty, staff, students and members of affiliated universities and Dalhousie alumni are eligible. Those involved in the production of UNIVERSITY NEWS are not eligible.

Entries must be received no later than one week from the date of publication and should be sent to CROSSWORD, University News, Information Office, Old Law Building, Studley Campus.

Solution No. 2793

Across: 1, Vacillation; 10, Idiot; 11, Spaghetti; 12, Ideograph; 13, Lapel; 14, Hungry; 16, Fatalism; 18, Negation; 20, Dogger; 23, Pater; 24, Telegraph; 26, Statement; 27, Nasal; 28, Stethoscope.

Down: 2, Agile; 3, Integer; 4, Lascar; 5, Tracheas; 6, Ophelia; 7, Finishing post; 8, Stopping; 9, Field-Marshal; 15, Nightcap; 17, Pot-tiest; 19, Torment; 21, Organic; 22, Blotto; 25, Aesop.

Winner for No. 2793 is A.M. Simpson Physics Dept.

DOWN

- 1 Drinks enough to kill? (10)
- 2 So isn't all for the horses! (9)

The Sunday Times Service

The Back Page

Calendar

Thursday, March 8

Senescence seminar series—2:30 p.m., Theatre E, Tupper. "Senescence & Physical Activity", H.K. Wolf, physiology & biophysics, Dal.

Films on Art—12 noon. MacAloney Room (406), Arts Centre. Photography and Film—"Daguerre or the Birth of Photography" and "Accident" by Martin Duckworth.

CME—short course in Endocrinology for family physicians (continues tomorrow).

Music - 2:30 p.m. Rebecca Cohn Aud., Arts Centre. Dal Art Trio.

African Studies seminar series - 4:30 p.m. seminar room, 1444 Seymour St. John Manley, "Hubert Henry Harrison, The Socialist Party of America, and the Roots of 'New Negro' Nationalism in Harlem, 1907-1915".

Public lecture - 8 p.m. MacMechan Aud., Killam Library. "Soviet Foreign Policy under Brezhnev", Prof. Frederick Starr, Kennan Inst., Washington, D.C.

Geology seminar - 5 p.m. Room 101, Dunn Bldg. Dr. B. Parsons, Mass. Inst. of Tech., "Theoretical and Observational Arguments for Small-Scale Convection in the Mantle".

Friday, March 9

Music - Noon Hour Recital - 12:45 p.m. foyer, Arts Centre.

Theatre - Weekend Theatre - 8 p.m. Studio 1, Arts Centre. "Contemporary Canadian Theatre", with Canadian playwright, Sharon Polleck.

French - Variety Show. "Les Beaux Vendredis", organized by the students in the French dept. 8 p.m. MacMechan Aud. Following will be a wine and cheese party and auction at Maison Francaise, 1220 LeMarchant St.

International Business Studies seminar - 2 p.m. MacMechan Aud. Dr. R.A. Krieger, vice-president, Chase Manhattan Bank; "Foreign Exchange Strategies for the 1980s".

Entertainment - 8:30 p.m. Rebecca Cohn Aud. Canadian Brass.

Serendipity Cinema Society film series - 7 & 9 p.m., Room 2815, LSC. "The Bridge on the River Kwai" with Wm. Holden and Alex Guinness.

Friday-at-Four lecture - Theatre A, Tupper. Dal Research presentation with Dr. T. Ghose. "Antibody-linked Cytotoxic Agents in the Treatment of Cancer: Current Status and Future Prospects".

Library Service lecture - 10:45 a.m. MacMechan Auditorium. "The Library Administrator: I'm OK, You're Fired". Anne Wordsworth, Director of Libraries, York University.

Athletics - Hockey... AUAA finals (also March 10 & 11).

Political Science seminar. "Ocean Space - The Common Heritage of Man" with Arvid Pardo and Elizabeth Mann Borgese. 3:30 to 5:30 p.m., Political Science Lounge, 3rd floor, A & A.

Overseas Student Coordinator film - 7 p.m., MacAloney Room (406), Arts Centre. "Elements of Survival" part II - Food.

Sunday, March 11

Dal Film Series - 8 p.m. Rebecca Cohn Auditorium, Arts Centre. "Images".

Monday, March 12

Music - 8:30 p.m. Rebecca Cohn Auditorium. The Dalhousie Bands in concert.

Tuesday, March 13

International Business Studies seminar - 6:30 p.m., Room 4207, LSC. "Fisheries from the Newfoundland Perspective", Alex Moores, president, Ocean Harvesters, Inc., Harbour Grace, Nfld.

AMC seminar - Interviewing, Selection, Placement, Coaching and Counselling; seminar leader, Roy Eshelby. Holiday Inn, Halifax.

Chemistry seminar - 11:30 a.m., Room 215, Chem. Bldg. Dr. W.H. Saunders, Univ. of Rochester, "Primary Kinetic Hydrogen Isotope Effects in Proton Transfers - What Are They Telling Us?".

Wednesday, March 14

Music - Noon Hour Recital. 12:45, foyer, Arts Centre. 8:30 p.m., student concert, Rebecca Cohn Auditorium, Arts Centre.

Biological Oceanography seminar - 4 p.m., Room 4660, LSC. "Feeding of Arctic char and brown trout in an Icelandic lake", Bjorn Bjornsson.

Physics seminar - 4 p.m., Room 101, Dunn Bldg. "The Physics of Earthquakes: A Continuing Enigma", Dr. C. Beaumont, Oceanography dept., Dal.

Overseas Student Coordinator series on international development. "Islamic Responses to Development with Special Reference to Iran", J.E. Flint, Centre for African Studies, Dalhousie, MacAloney Room, Arts Centre, 8 p.m.

Thursday, March 15

Music - 4:30 p.m., MacAloney Room (406), Arts Centre. Words about Music colloquium series - Clifford Ford, "A Sociological Approach to Canadian Music".

Films on Art series - 12 noon, MacAloney Room (406). Civilization, Pt.7.

Lecture in the Gallery, 8:30 p.m., Arts Centre. Dr. Mimi Cazort Taylor, curator of European drawing at the National Gallery of Canada, "The Illustrated Book in England, 1860-1900".

African Studies seminar series - 4:30 p.m., seminar room, 1444 Seymour St. "The State and the Economy: The Radicalisation of the Revolution in Mobutu's Zaire", Michael Schatzberg.

Chemistry seminar - 11:30 a.m., Room 215, Chem. Bldg. "Collisional Narrowing in Infrared Transitions", Dr. R. Rao, visiting the Herzberg Inst. of Astrophysics, NRC of Canada from the Indian Inst. of Tech. Kanpur.

Art Gallery Exhibition - until April 1 - The 4th Dalhousie Drawing Exhibition
- The Illustrated Book in England, 1860-1900.

Notices

Team handball clinic

The Canadian Team Handball Federations Executive Director and National Coach will be in Halifax to conduct an instructional clinic on the popular new Olympic sport of team handball on Saturday, March 17 at the Dal Gymnasium from 1:00 - 4:30 p.m.

The clinic is free and open to all who are interested in attending. Participants should come prepared to participate in drills and games.

A phone-in pre-registration is required prior to March 14 by calling the Athletic Office at (424-)3372.

Fisheries seminar

Fisheries from the Newfoundland Perspective will be the topic of a seminar to be given at 6:30 p.m., March 13 in Room 4207 of the Life Sciences Centre.

Guest speaker will be Alex Moores, president of Ocean Harvesters Incorporated, Harbour Grace, Newfoundland.

Mr. Moores' talk is one in a series of seminars on ocean resources and industries sponsored by the university's Centre for International Business Studies.

T-4 forms for graduate students

T-4 forms for graduate students are no longer available at the Awards office. All forms remaining in the office were mailed on Feb. 28 to the last known address of the student. If there are any problems, contact personnel/payroll at (424-)3700.

Employment search program

The Manpower Centre and the Counselling and Psychological Services Centre are joining forces to present a four session videotaped program designed to help students assess their job-related skills, develop job hunting skills and learn more about the employment world.

The four sessions will consist of the self-assessment, the resume, job location strategies and the letter of application, and the interview.

Sessions will be held Mondays from 2:30 to 4 p.m. starting early in March. If you're interested, drop in to the Counselling and Psychological Services Centre on the fourth floor, SUB to register or get more information.

Chemical Institute seminar

The Dalhousie University Chemical Institute of Canada Student Chapter will hold a symposium on inorganic synthesis and structure Friday, March 16.

The goal of the symposium is to bring together undergraduate chemistry honours students, graduate students and faculty members from Atlantic universities to discuss principles and recent developments in inorganic synthesis and methods of structure determination. The keynote lecture will be presented by Professor Bill Pearson of the University of Waterloo.

Further information may be obtained from Dr. A. Chattopadhyay, chemistry department, (424-) 2474.

People

Dr. John M. Kirk of the Department of Spanish will lead a study tour of Cuba (The New Cuba: A Voyage of Discovery) from April 21 to May 5. The tour, sponsored by the University of British Columbia, will travel to all the major cities and places of historical interest in Cuba and will offer participants the chance to attend the May Day celebrations in Havana.

Drs. Arend Bonen and Angelo Belcastro and graduate student **Grant Pierce** from the School of Physical Education presented four papers at the annual meeting of the Canadian Association of Sport Sciences in January at Mont Ste-Marie.

An exhibition and sale of theatrical designs by **Robert Doyle**, artist in residence and director of the costume studies program in the Theatre Department, was held recently at Manuge Galleries on Hollis Street.

Dr. William Parker, Assistant Professor of Pharmacy, recently made two presentations to the Canadian Society of Hospital Pharmacists' Tenth Annual Professional Practice Conference held in Toronto, 5-7 February, 1979. His presentations were on the "Implications of Once-Daily Drug Dosing in a General Hospital," and "Post Marketing Surveillance of Drugs and Drug Adverse Reaction Reporting."

DFA Nominations

Nominations are sought for next year's Executive Committee of the Dalhousie Faculty Association.

The positions to be filled are: President, 1st and 2nd Vice-presidents, Secretary, Treasurer, and Members-at-large. If the proposed constitutional changes are adopted, the number of Members-at-large will be limited to 10, plus one member who is not a member of any bargaining unit, plus one member from the Instructors and Demonstrators bargaining unit.

The Nominating Committee consists of Dr. J.P. Welch (paediatrics, past-President), Dr. A.C. Thompson (mathematics, secretary) and Dr. A.R. Andrews (theatre). Nominations should be in writing and should state the position(s) for which the person is being nominated, the name and department of the proposer and seconder, and should be accompanied by the written agreement of the Nominee to serve if elected. Nominations should be addressed to A.C. Thompson, DFA Secretary, DFA Office, Faculty Club Building; or to any other member of the Nominating Committee.

For further information, call A.C. Thompson (424-) 3310.