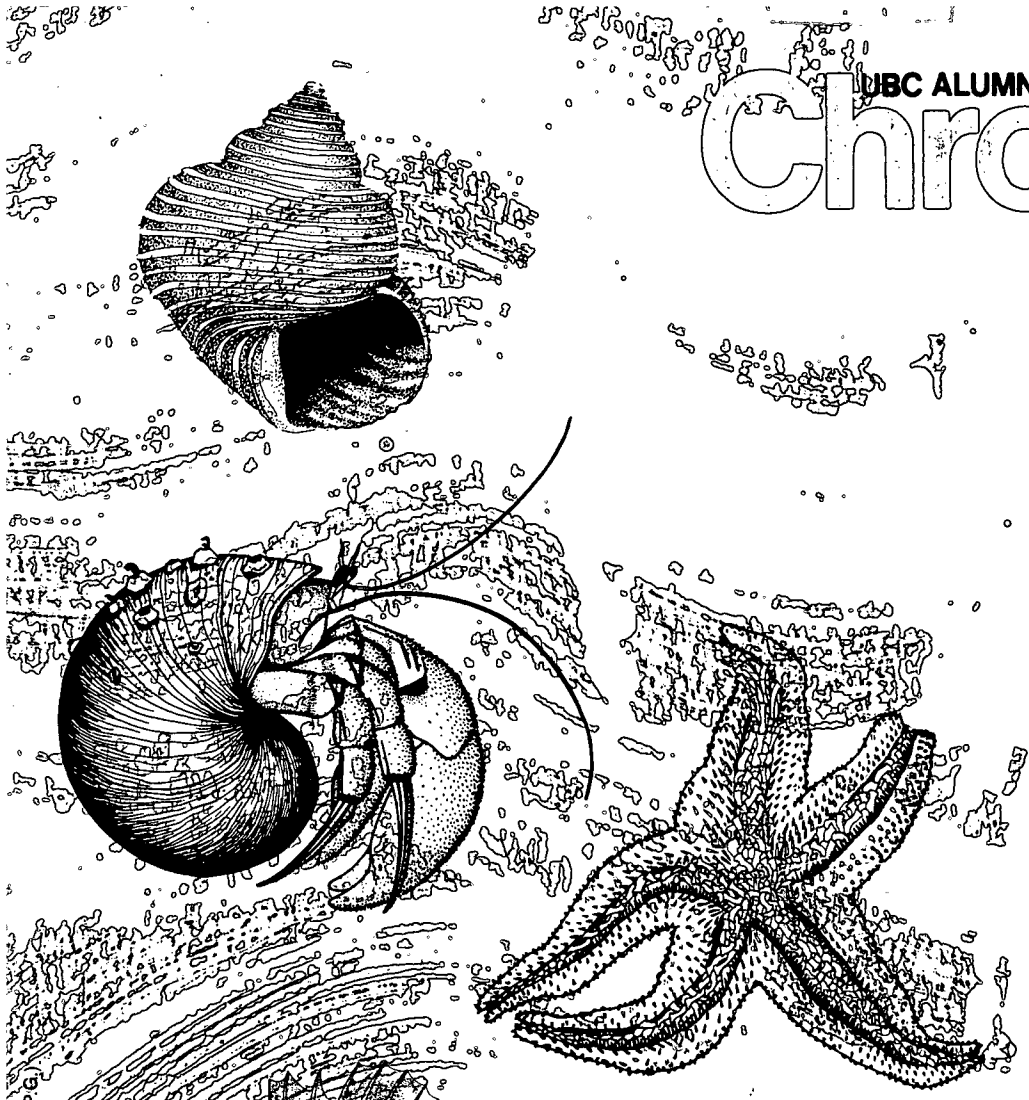
UBC ALUMNI
Chronicle
SPRING 1976



A MATTER OF RESPONSIBILITY

Is Canada Ready for the 200-Mile Limit?

BALLOT ENCLOSED
Board of Management Elections... p.5

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Honourable Don Phillips, Minister

UBC ALUMNI
Chronicle

VOLUME 30, NO. 1, SPRING 1976

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1976 UBC ALUMNI ANNUAL DINNER

Lady Barbara Ward Jackson

Guest speaker at the Alumni Annual Dinner, world renowned economist, **Lady Barbara Ward Jackson**, has been described as "one of the most profound thinkers of our time." She has devoted much of her career to the needs of developing countries and is author of the widely read *The Rich Nations and the Poor Nations* and *Spaceship Earth*. She will be discussing...

HUMAN SETTLEMENTS: CRISIS & OPPORTUNITY

...at the Bayshore Inn, Tuesday, April 20, 6:30 pm in a program co-sponsored by the UBC Alumni Association and the President's University Committee on UN Habitat '76. Tickets are $12.50/person or $25/couple from the UBC Alumni Association, 6251 Cecil Green Park Road, Vancouver, B.C. V6T 1A6, 228-3313. Alumni have ticket priority until April 9.

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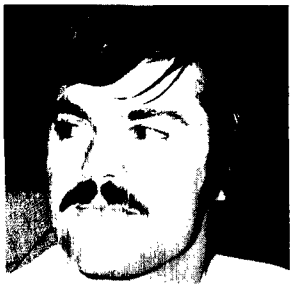
Candidates for Members-at-large, 1976-78

There are 10 to be elected from the following 14 candidates.



Gordon Blankstein

Gordon W. Blankstein, BSc'73. *Alumni Activities*: Alma Mater Society (A.M.S.) rep., 1974-75. *Campus*: student senator, 1975-76; UBC aquatic center fund raising committee, 1974-76; UBC aquatic center planning and co-ordinating committee, 1973-76; member, men's athletic committee, 1972-76; president, A.M.S., 1974-75; member, women's athletic committee, 1973-74; vice-president, A.M.S., 1972-74; winter sports center management committee, 1972-74; member of ad hoc committee to get an aquatic center at UBC, 1972; Master Teacher award committee, 1971-72; sports rep., Faculty of Agriculture, 1971-72; vice-president, Faculty of Agriculture, 1970-71; first year president, Faculty of Agriculture, 1969-70. *Community*: coach, youth baseball and football. *Occupation*: MBA student, UBC.

Candidate's Statement: I would like to obtain the active involvement of young graduates of the university in the alumni association and to create interest on the UBC campus amongst undergraduates in the association before they leave the campus.

Joy Fera

M. Joy Ward Fera, BRE'72. *Alumni Activities*: member-at-large, 1974-76; member, branches committee. *Campus*: member-at-large, women's athletic directorate; ski team, World Student Games, 1972; Big Block (4); participant, Canadian Crossroads International, Barbados, 1971. *Community*: Vancouver committee for Canadian Crossroads International; Vancouver Rowing Club; member, Professional Recreation Society of B.C. *Occupation*: recreational therapist, George Derby wing, Shaughnessy Hospital.

Joan Gish

Joan Thompson Gish, BA'58. *Alumni Activities*: awards and scholarships committee, 1975-76; UBC Alumni Fund Phonathon, 1969-70. *Campus*: executive member, World University Service and National Federation of Canadian University Students; Panhellenic president, 1957-58; manager, ski team and member, women's athletic directorate, 1957-58; Varsity Outdoor Club, 1955-58. *Community*: governor, Playhouse Theatre, 1975-77; docent, Vancouver Museum, 1969-71; Ladies Guild, Vancouver Opera Assoc., 1965-67. *Occupation*: housewife/business.

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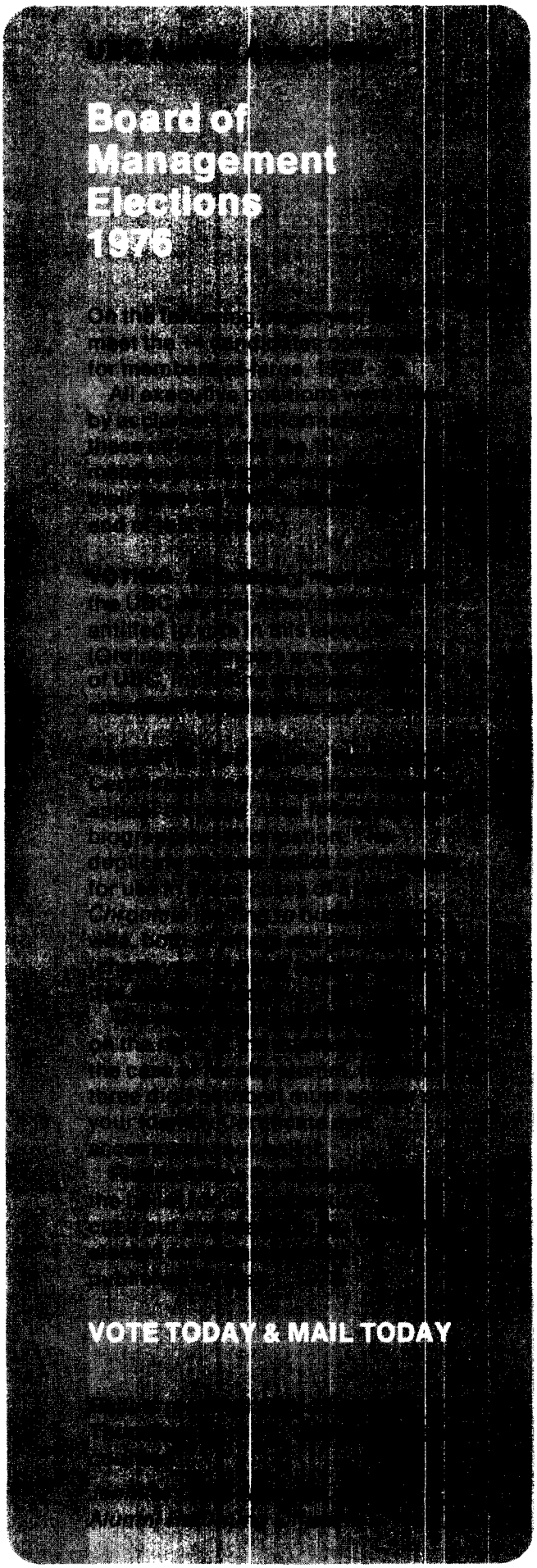
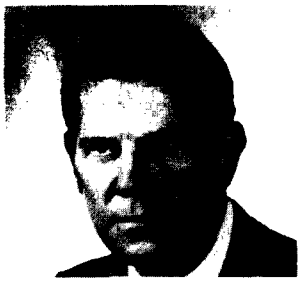


Wayne Guinn

Wayne Fraser Guinn, BA'70, LLB'73. *Alumni Activities*: travel committee, 1975-76; branches committee, 1975-76; special events committee, 1974-76; awards and scholarships committee, 1973-75. *Campus*: A.M.S. students affairs; law students assoc.; chair, law school graduation committee; intra-mural sports; high school conference committee, 1966-69. *Community*: member, B.C. Borstal Assoc.; member, Automotive Transport Assoc.; B.C. Law Society; B.C. Bar Assoc.; Canadian Bar Assoc.; Vancouver Bar Assoc.; member, corporate and commercial law sections. *Occupation*: lawyer, Derpak White & Co.



Jack Hetherington

J.D. (Jack) Hetherington, BASc'45. *Alumni Activities*: class co-chair, Reunion Days; fund raising. *Campus*: graduating class president 1945; basketball; debating; literary and scientific executive. *Community*: director, Boys' and Girls' Clubs of Vancouver; board member, Shaughnessy United Church; past-president, B.C. Lumber Wholesale Assoc.; past director, Kiwanis Club; president, Canadian Forestry Assoc. of B.C. *Occupation*: president, Ralph S. Plant Ltd., wholesale forest products.

Brenton Kenny

Brenton D. Kenny, LLB'56. *Alumni Activities*: resource person, allocations committee, 1974-; chair, allocations committee, 1973-74; member, allocations committee, 1972-73. *Community*: former vice-president and director, Big Brothers of B.C.; minor soccer coach. *Occupation*: lawyer.

Pat Parker

Patrick E. Parker, BCom'68, MBA '69. *Alumni Activities*: president, commerce alumni division, 1975-76; member-at-large, 1974-76; vice-president, commerce alumni division, 1974-75; member, branches committee, 1974-75; alumni chair, commerce faculty caucus and curriculum committee. *Campus*: officer, Phi Gamma Delta; football; vice-president, UBC Liberals; commerce student committees. *Community*: Variety Club of Western Canada; YMCA; board of directors, Keg Restaurants Ltd. *Occupation*: operations manager, McDonalds Restaurants of Western Canada.

George Plant

George E. Plant, BASc'50. *Alumni Activities*: co-chair, reunion days committee, 1975; chair, Port Alberni alumni branch, 1972-73. *Campus*: president, mechanical engineers; treasurer, graduating class, 1950; Delta Upsilon fraternity. *Community*: Vancouver Rotary Club; vice-president, Vancouver branch, Canadian Red Cross; North Vancouver Minor Hockey Assoc.; Assoc. of Professional Engineers of B.C. *Occupation*: senior planner, Pulp and Paper Group, MacMillan Bloedel Ltd.

John Schuss

John F. Schuss, BASc'66. *Campus*: Engineering Undergraduate Society; member, Brock management committee, A.M.S. *Community*: member, A.I.M.E., A.F.S., associate member, E.I.C.; treasurer, B.C. charter, A.S.M. *Occupation*: field services engineer, Union Carbide Canada Ltd.

Candidate's Statement: I believe the alumni association can be a more active force in relations between the student body, alumni and the public at large. This requires a high level of participation and organization on the part of the association in order to arouse interest and obtain support from these groups.

Oscar Sziklai

Oscar Sziklai, (BSF, Sopron, Hungary), MF'61, PhD'64. *Alumni Activities*: member-at-large, 1974-76; chair, Speakers Bureau, 1975-76; co-author, *Foresters in Exile*, the story of the Sopron Forestry School graduates. *Campus*: member, campus landscape committee, 1970-73; member, Life Seminars Council, 1971-72. *Community*: director, Canadian Institute of Forestry, Vancouver section, 1972-73, chair, 1971-72, vice-chair and membership chair, 1969-70, program chair, 1968-69; chair, 'Alma 106 Group, Junior Forest Wardens of Canada, 1966-67; B.C. registered forester, news reporter, 1967-68. *Occupation*: professor of forest genetics, UBC.

Robert Tulk

Robert E. Tulk, BCom'60. *Alumni Activities*: chair, commerce homecoming, 1970. *Campus*: freshman class president, 1955-56; Bird Calls advertising manager for three years; member, several council committees; Phi Gamma Delta fraternity. *Community*: teacher, evenings extension dept., C.A. program, eight years. *Occupation*: chartered accountant; general manager, Artisan Group.

Kenneth Turnbull

Kenneth Walter Turnbull, BASc'60, MD'67. *Campus*: frosh council; E.U.S. representative; member, engineering clubs; medicine open house; Phi Delta Theta fraternity. *Community*: Totem Amateur Radio Club; executive member, B.C. Anaesthesia Society. *Occupation*: physician (anaesthesia).

Barb Vitols

Barbara Mitchell Vitols, BA'61. *Alumni Activities*: Program Director, UBC Alumni Association, 1966-72. *Occupation*: mother.

Robert Wieser

Robert L. Wieser, BA'67. *Community*: director, Richmond Chamber of Commerce; treasurer, Junior Achievement (Surrey), 1974; board member, Neighbourhood Services Association (Vancouver), 1971-73. *Occupation*: employee, Sears, nine years; currently merchandise manager.

Candidate's Statement: Fellow graduates, I believe that the alumni association has an important role to play in addition to the collection and administration of money. The association could be a strong community voice once it determined the direction the alumni wished to take. Apart from the annual request for money and the UBC *Chronicle*, what contact have you had with the association? I suggest that the association solicit ideas from you on how it can best serve you. Participation can only happen if the avenues of communication are open for input. With your support, I shall work towards this goal.

SEE BALLOT PAGE NINE

VOTE TODAY

Return Ballot and Identity Certificate

Officers 1976-77

The following officers for 1976-77 were elected by acclamation.

Jim Denholme

President

James L. Denholme, BASc'56. *Alumni Activities*: first vice-president, 1975-76; second vice-president, 1974-75; chair, allocations committee; member, alumni fund executive. *Community*: chair, Health Labor Relations Assoc. of B.C.; director, Columbia Junior College; past chair, Sunny Hill Hospital; past president, C.G.A. Assoc. of B.C.; member, C.G.A. Assoc. of B.C.; member, Assoc. of Professional Engineers of B.C.; former vice-chair, Prince George Regional Hospital Board; former member, Vancouver Parking Commission. *Occupation*: vice-president, Toh Can Ltd.

Charlotte Warren

Vice-President

Charlotte L. V. Warren, BCom'58, (PGCE, London, U.K.). *Alumni Activities*: Second vice-president, 1975-76; chair, alumni fund allocations committee, 1974-75; member, alumni fund allocations committee, 1972-75; alumni rep., women's athletic committee, 1962-72; chair, alumni fund class agent-faculty program, 1969; chair, 10 year reunion of 1958 commerce class. *Campus*: member, UBC field hockey and badminton teams, 1953-58; R.C.A.F. (University Reserve Training Plan), 1953-57, (commissioned 1956); member, A.M.S., 1955-57; president, Women's Big Block Club, 1954-55. *Community*: chair, TEAM parks policy committee; member, Vancouver Public Library board; member, UBC Senate; member, Canadian Institute of International Affairs; member, Vancouver Botanical Gardens Assoc.; member, Save Our Parklands Assoc.; chair, Canadian Field Hockey Council, 1972-74; first editor, women's section, Canadian Field Hockey News, 1966-72; promotion chair, Canadian Women's Field Hockey Assoc., 1966-67; chair, first B.C. inter-school field hockey tournament, 1964. *Occupation*: group travel advisor, Burke's World Wide Travel Ltd.

Paul Hazell

Treasurer

Paul L. Hazell, BCom'60. *Alumni Activities*: treasurer 1975-76, 1974-75; chair, alumn fund, 1973-74; University Resources Council, 1973-74; President's aquatic facility fund-raising advisory committee; UBC Commerce/Engineering Fund. *Campus*: vice-president, N.F.C.U.S., 1959-60; Lambda Chi Alpha; president, Society for Advancement of Management, 1959-60. *Community*: education committee, Certified General Accountants of B.C.; taxation committee, B.C.-Yukon Chamber of Mines. *Occupation*: certified general accountant; deputy comptroller, Yorkshire Trust.

Members-at-large 1975-77

Aunna Currie

Aunna M. Leyland Currie, BEd'60. *Alumni Activities*: special programs committee, 1975-76; awards and scholarships committee, 1971-76; chair, regional scholarship screening, 1972-75. *Campus*: secretary, Education Undergraduate Society; delegate, Western Canada Future Teachers' Conference. *Community*: member, board of directors, North Shore Neighbourhood House, 1974-75; member, Junior League, 1972-75; member, University Women's Club; volunteer, Save The Children Fund; executive, United Church Women, 1967-71; volunteer youth work. *Occupation*: homemaker.

Mike Hunter

Michael W. Hunter, BA'63, LLB'67. *Alumni Activities*: past chair, Ottawa alumni branch; member, *Chronicle* editorial committee. *Campus*: Sherwood Lett scholar, 1966; member, *Ubyssey* editorial board, 1960-65; editor, *Ubyssey*, 1963-64; committee member, Student Union Building and Back Mac campaigns. *Occupation*: lawyer, Russell and DuMoulin, Vancouver.

Don MacKay

Donald MacKay, BA'55. *Alumni Activities:* Alumni Fund, deputy chair, 1971-72; chair, 1972-73. *Campus:* Varsity Outdoor Club; intramural sports. *Community:* Vancouver Board of Trade; community recreation and youth work. *Occupation:* western sales manager, ERCO Industries Ltd.

Helen McCrae

Helen Dalrymple McCrae, (BA, Toronto), MSW'49. *Alumni Activities*: degree rep., 1971-73. *Community*: member, Eliz. Fry Society, 1975-76; Multiple Sclerosis Society (B.C.); past-president, Vancouver Soroptomist Club; Canadian Council on Social Development; Canadian Assoc. of Social Workers, educational advisory committee (Vancouver Foundation); University Women's Club. *Occupation*: retired, former dean of women and professor of social work, UBC.

Tom McCusker

Thomas McCusker, BA'47, (DDS, Toronto). *Alumni Activities*: advisory council, Big Block Club, 1974-75. *Community*: president, Medical Services Assoc., 1975; director, Canadian Arthritis and Rheumatism Society, 1969-75; member, B.C. Medical Foundation, 1973-75. *Occupation*: dentist.

Mickey McDowell

Michael Thomas (Mickey) McDowell, BPE'68, MPE'69, (PhD, USIU, San Diego). *Alumni Activities*: chair, alumni fund, 1974-75; men's athletics rep., 1971-74. *Campus*: member, men's athletic committee, 1971-74. *Community*: past president, Vocational Counselling Services of B.C.; past executive director, technological education, B.C. Institute of Technology. *Occupation*: organizational development consultant, Michael T. McDowell Associates Ltd.

Mark Rose

Mark W. Rose, BSA'47, (MEd, Western Wash.). *Alumni Activities*: chair, educational television committee, 1975-76; appointed member-at-large, 1974; member, master teacher committee. *Campus*: member, University Dance Band, 1946-47. *Community*: teacher in Kelowna; supervisor of education, New Westminster, 1958-62; active in B.C. Teacher's Federation; president, B.C. Schools Music Educators Assoc., 1961-63; alderman, Coquitlam, 1965-67; MP, Fraser Valley West, 1968-74; compiles local radio daily news commentary. *Occupation*: assistant professor, UBC Faculty of Education.

Art Stevenson

W.A. (Art) Stevenson, BASc'66. *Alumni Activities*: member, student affairs committee; member, special programs committee. *Campus*: active in Engineering Undergraduate Society, 1961-65; president, E.U.S., 1965; member, A.M.S. finance committee, 1965. *Occupation*: general manager, Pioneer Industries Ltd., several years in forest products industry in Toronto with Dupont and CPI.

Doreen Walker

Doreen Ryan Walker, BA'42, MA'69. *Alumni Activities*: member, awards and scholarships committee, 1975-76. *Community*: Community Chest (United Way), 1960-65; docent, Vancouver Art Gallery, 1952-65; youth leader, Shaughnessy United Church, 1955-65; Canadian Red Cross Society (Blood Donors Clinic), 1940-45. *Occupation*: senior instructor, department of fine arts, UBC.

Liz Wilmot

Elizabeth Travers Wilmot, BSR'66. *Alumni Activities*: chair, student affairs committee, 1975-76; member, student affairs committee, 1973-74; degree rep., 1972-73; member, nominations committee. *Campus*: Delta Gamma; co-chair, leadership conference and Song-fest. *Community*: board of directors, Province of Quebec Physiotherapists Inc. *Occupation*: part time physio and occupational therapist with the blind, Childrens Hospital Diagnostic Center.

Ballots received after 12 noon April 15, 1976 will not be counted.

Voting Instructions

Who may vote

All ordinary members of the UBC Alumni Association are entitled to vote in this election. (Ordinary members are graduates of UBC including graduates who attended Victoria College.)

Voting

There are 10 vacancies for the position of member-at-large, 1976-78 and there are 14 candidates for these positions, listed below on the ballot. You may vote for a maximum of 10 candidates.

Ballots

There is a **ballot** and a **spouse ballot** provided on this page. The **spouse ballot** is provided for use in those cases of a joint *Chronicle* mailing to husband and wife. (Check your address label to see if this applies to you.)

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1. Place the completed ballot and Identity Certificate in **your** envelope with **your** stamp and mail it to The Returning Officer at the address below.
2. **OR** if you want to ensure the confidentiality of your ballot, detach it from the signed and completed Identity Certificate and seal it in a blank envelope. Then place the sealed envelope with the Identity Certificate in a second envelope, with **your** stamp, for mailing.
   The mailing number and signature will be verified and separated from the sealed envelope containing your ballot before counting.
   NOTE: Failure to include your correct mailing label number and signature (the Identity Certificate) will invalidate your ballot.
3. Mail to: Alumni Returning Officer
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University of British Columbia Alumni Association

Spouse Ballot/1976

Members-at-large, 1976-78 *(Place an "X" in the square opposite the candidates of your choice. You may vote for a* **maximum of 10.***)*

W. Gordon Blankstein ..... ☐
M. Joy Ward Fera ..... ☐
Joan Thompson Gish ..... ☐
Wayne F. Guinn ..... ☐
J.D. (Jack) Hetherington ..... ☐
Brenton D. Kenny ..... ☐
Patrick E. Parker ..... ☐
George E. Plant ..... ☐
John F. Schuss ..... ☐
Oscar Sziklai ..... ☐
Robert E. Tulk ..... ☐
Kenneth W. Turnbull ..... ☐
Barbara Mitchell Vitols ..... ☐
Robert L. Wieser ..... ☐

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(7 digit no. from mailing label)
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I certify that I am a graduate of the University of British Columbia.

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(sign here)

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University of British Columbia Alumni Association

Ballot/1976

Members-at-large, 1976-78 *(Place an "X" in the square opposite the candidates of your choice. You may vote for a* **maximum of 10.***)*

W. Gordon Blankstein ..... ☐
M. Joy Ward Fera ..... ☐
Joan Thompson Gish ..... ☐
Wayne F. Guinn ..... ☐
J.D. (Jack) Hetherington ..... ☐
Brenton D. Kenny ..... ☐
Patrick E. Parker ..... ☐
George E. Plant ..... ☐
John F. Schuss ..... ☐
Oscar Sziklai ..... ☐
Robert E. Tulk ..... ☐
Kenneth W. Turnbull ..... ☐
Barbara Mitchell Vitols ..... ☐
Robert L. Wieser ..... ☐

Identity Certificate

The information below must be completed and accompany the ballot or the ballot will be rejected.

NAME (print) .....
NUMBER .....
(7 digit no. from mailing label)
(faculty alumni will have 3 digit no.)
I certify that I am a graduate of the University of British Columbia.

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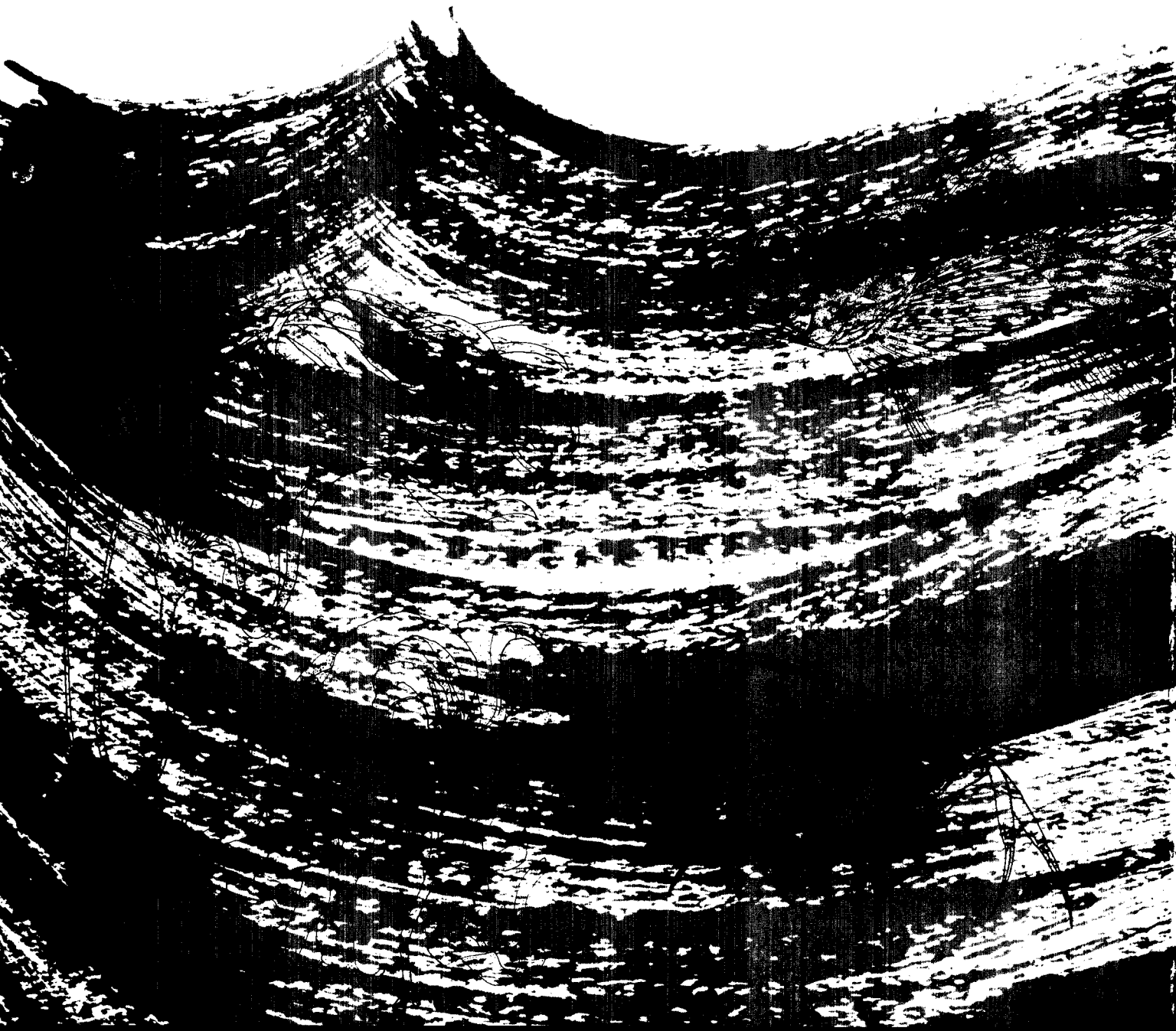
(sign here)

A Matter of Responsibility

Is Canada Ready for the 200-Mile Limit?

Murray McMillan



The question, it now appears, is not whether the event will happen, but when.

Canada, in the very near future, will expand its present 12-mile offshore jurisdiction over resources to 200 miles and in doing so will acquire hundreds of thousands of square miles of new Canadian territory.

Whether that action is done in concert with other coastal nations, or is a unilateral act, remains to be seen. So far years of negotiation, including the two Law of the Sea conferences held in Caracas and Geneva (under United Nations auspices) have failed to come up with an agreement on extension of coastal boundaries. Another conference, this time in New York, is scheduled for this spring.

In the world forum, the question of extending offshore boundaries is the subject of heated debate. It pits industrialized nations against the Third World, countries like Canada with vast coastlines against nations with only tiny outlets to the seas, superpowers with wide-ranging fishing fleets against countries with fishing resources they want protected from just those superpowers.

Some countries, like Iceland, have gone it alone and declared unilateral expanded jurisdiction. And its Cod War with Britain is the result. Others, like the Soviet Union, have firmly opposed the extension of territorial waters.

Canada is among the growing number of countries who are anxious to see the new boundaries come into being, and the federal government, according to a recent statement by fisheries minister Romeo LeBlanc, is getting very impatient with world conferences that fail to produce results. Although he has said that unilateral action is the least desirable course of action, there is a strong hint that that is the route Canada may have to take.

However it is done, the change will have far-reaching political implications. But less known, and perhaps more staggering, are the ramifications for the scientific community of such a move.

The problems appear immense. Simply put, Canada knows little of what it would acquire should the limit be extended to 200 miles. The vast coastlines have been explored only moderately, and as scientists see it, there is not the personnel available now, or being trained now, to take on the mammoth tasks of exploration, patrol and management when the new limit comes in.

Dr. Norman Wilimovsky of UBC's Institute of Animal Resource Ecology becomes intense and animated when he discusses the subject.

"In the biological and economic fields there is a real dearth of qualified personnel in all countries right now. Only a few nations — including Canada — are able to provide trained fisheries science personnel to the developing world. We will continue to have the responsibility of providing this expertise and with the new limit, Canada will not be able to meet its own needs," he says.

"By putting a 200-mile economic zone on their coasts to protect resources, for the first time nations will have the opportunity to limit entry to those resources and to optimize production from them. There will be a responsibility *to look after* your share of the world's resources and those nations who don't meet the responsibility will be taken to task by the world community," Wilimovsky explains.

"As long as we couldn't limit the entry to the resources there was no high priority put on developing strong controls on the resources. Now that we're going to have these responsibilities, we've got to get the data on the resources, learn how to manage them and decide how to allocate them among potential users." Those kinds of questions have to be studied, data collected and analysed, and then the alternatives presented to the political decision-makers, says Wilimovsky.

The problem is that right now there aren't the people to do even the basic research necessary. Dr. Timothy Parsons of UBC's Institute of Oceanography points out, "In order to have political clout (in world negotiations), you have to have the scientific know-how to back it up. One way or another, we must increase our ability to manage the 200-mile zone. We're short of expertise now."

He points to the area of marine pollution and the need for chemical oceanographers to examine it and police it. "In 1969 we had 10 chemical oceanographers in all of Canada. In 1974 it was up to 33, but that is far from sufficient."

Current figures are not available, but one could estimate that by now the number of chemical oceanographers may have reached the 50 to 60 bracket. That's five dozen or so persons with the expertise to check pollution in a vast new area.

To get an idea of what that means on the coast of B.C. alone, look at a map of the province, put your thumb on Victoria and your index finger on Penticton. The gap is about 200 miles. Now run your fingers parallel to the B.C. coast and you'll have some idea of the huge territory the new limit would take in.

"There is no large oceanographic program outside the Strait of Georgia, although there are individual scientists working on special areas," says Parsons. He adds that there is a need for some sort of central agency to take on the responsibility of oceanographic research.

"At present we are getting people coming out of other disciplines, people who have no training in basic oceanography, and they are being put in marine management positions to fill the gap, and those are positions in which they can make very basic mistakes," he says.

The push for greater control of our offshore resources, although strongly political, has roots in two growing concepts. One is the realization which has only come in the past decade or so, that the resources of the world are finite. And closely linked to that is the second realization — that the resources of the land in particular are also finite, and that man must look to the seas for future sustenance.

"Unlike terrestrial resources, from time immemorial products from oceans and lakes have been considered common property," says Wilimovsky. "There has been no incentive for conservation. The whole idea has been that there is no tomorrow. There has always been the feeling that if you don't take the products, someone else will."

The extended jurisdictional boundaries are one mechanism whereby countries can work to manage their ocean resources in the same way that land resources have been controlled for years.

"As a general point, all countries, and Canada more than most, will become more sea-oriented in the future," predicts Dr. Mark Zacher, who is director of UBC's Institute of International Relations. He is part of a large interdiciplinary research team at UBC which is examining the ramifications of the 200-mile limit.

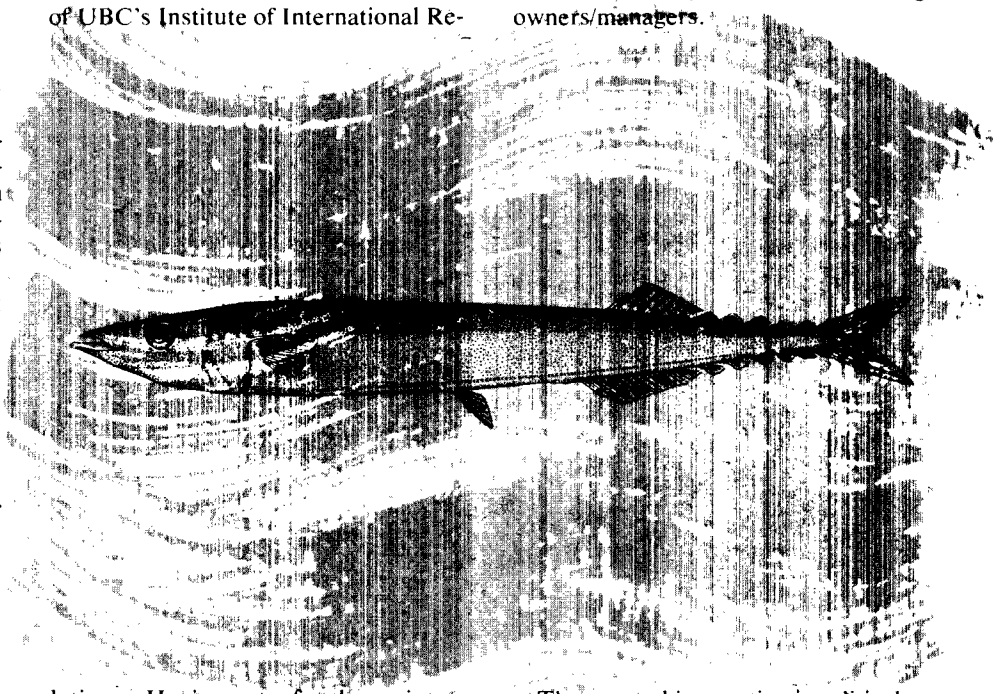
"The demand for the ocean's resources and for the technology to exploit them, are of fairly recent vintage, and the push for wider national jurisdiction is a reflection of this greater salience of the importance of the seas," he says. "World-wide there is a greater looking to the sea for both living and non-living resources."

While researchers like Zacher examine the problems in terms of their world-wide political and legal implications, scientists like Wilimovsky look more to the practical aspects of extended jurisdiction.

Take the saury, for instance. Not a word that one hears often (if at all) or reads on tags at your local fishmonger. But Wilimovsky is concerned with the saury and wonders what we're going to do with it.

The saury, it turns out, is a food fish which can be eaten directly or used in meal. The Soviets and Japanese fish for it regularly, and there's lots of it off Canada's west coast. But we know little of the saury — at least of our stocks of it, because it's not a major Canadian catch.

When the 200-mile limit comes into effect, we'll suddenly become owners/managers of the saury stock and somewhere, somehow, Canadians will have to decide what to do with it. Do we fish for it ourselves, then sell it to overseas customers? Will we need to train more fishermen? Should we lease out our fishing grounds to the Soviets and Japanese, or anyone else who wants them? If we take either of those options, how do we decide how big the catch can be and what the price should be? Those are some of the problems of becoming owners/managers.



The ownership question is political — at a given point in time the saury stock will become Canadian property. But competent management of all such resources is a scientific problem.

"A lot of us feel that what we need are people who have the concept of integrated resources management. There is a recognition that there is a real need in Canada for people trained at around the master's degree level, to supervise the day-to-day investigation and management of our resources," says Wilimovsky.

"If you look at the age distribution of

the present policy-makers and senior resource managers in the field in Canada, you'll find that most are close to retirement, and right now there are not even enough back-up people to fill all the slots when they retire," he adds.

"UBC has a fantastic opportunity to train professionals for this kind of job," he says. Part of that training goes on at the Western Canadian Universities Marine Biological Station (WCUMBS) at Bamfield on the west coast of Vancouver Island. It is an on-the-spot learning environment where students at all levels can grasp their subject first hand. (See story P. 14.)

But the WCUMBS station focusses on marine organisms and there are other widely-varied areas where expertise will be needed.

Dr. Richard Chase, associate professor in UBC's geological sciences department, looks for the mineral deposits which may lie on the sea bed — or under it — in that vast expanse which will come under Canadian jurisdiction. Although there has been exploration for oil on the continental shelf, and not much has been found, there will come a need to search areas like the Winona Basin off the northwest coast of Vancouver Island. Chase says it is an area of thick sedimentation — which means oil is a possibility. "In the Arctic we'll gain an enormous slab of territory which we now inadequately explore," Chase adds.

Senior students need ocean-going research ships to do their work, and in recent years the number of vessels available to researchers has actually diminished, Chase says. The need for personnel and equipment to chart what mineral resources may be there brings him to another problem, which is one of physical geography. On his office blackboard he chalks a cross-section of the ocean floor. At the B.C. coastline, the water is relatively shallow and becomes only slightly deeper as one edges out onto the continental shelf. But there comes a steep drop into ocean many times deeper. "If we extend our jurisdiction, and begin looking for, say, oil, we will need technology which really hasn't been developed yet," says Chase.

It is a problem that recurs regularly. Geological scientists look at the need for deep-sea exploratory equipment not yet developed, chemical oceanographers like those referred to by Parsons, contemplate the complexities of patrolling pollution over such vast areas. For them the answers could lie in such devices as air-borne sensors and satellites, but both are hampered by weather conditions.

Whatever the solutions, they will take years and huge amounts of expertise to develop.

One concern many scientists have

about the extension of jurisdiction to 200 miles is that it may actually hamper some types of research, rather than foster it. "As scientists, we want to have freedom of research on the seas," says Parsons. "We don't want to have to stop at some fictitious barrier during our research. The bona fide researcher wants to go in and follow the whole process of the oceans from shore to shore."

At present there is a very high level of international co-operation in oceanography, he says, although a few incidents have caused problems. He cites occasions where military vessels have operated in other nations' waters under the guise of being oceanographic vessels.

But as political scientist Zacher points out, it is not at all certain that Canada would want to seriously restrict much of the oceanographic research that the U.S. and other nations carry on in Canadian waters. "Canada gets a lot of useful data from the work of foreigners," says Zacher. "And we have vessels that work in other countries' waters and do the same thing."

He says the United States and Soviet Union have been opposed to any restrictions which coastal states might place on research inside a 200-mile limit, because they would affect the superpowers' operations, many of which have both military and economic implications.

Any international agreement on extension of coastal jurisdiction would have to include safeguards on research to protect the individual nations and make sure they benefitted from the research carried out in their waters, Zacher says.

But those sorts of problems are remote from the day-to-day work being done at places like Bamfield, where students grapple with the basic principles of undersea life. It's knowledge of those principles that is absolutely essential to any marine management program, contends Wilimovsky.

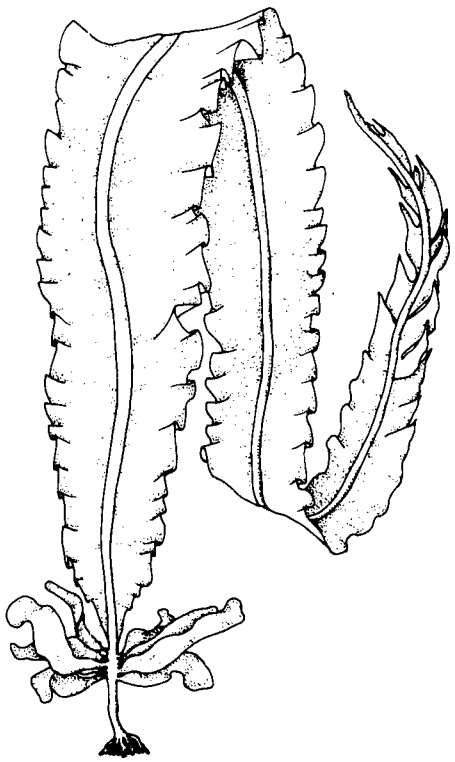
"This applies whether you're talking about fish/kelp-bed relationships, what the salmon and other marine life are feeding on far out to sea or close to shore, or the effects of pollution — a major oil spill, say — on the very delicate and complex environment in the sea close to British Columbia.

"We already know that this environment can be pushed to the point of collapse. Some major fisheries in other parts of the world have already been reduced to the point where they are no longer economic. We don't want to repeat that here, we must encourage fundamental research on marine life, such as we've made a start on at Bamfield."

Clearly, an enormous challenge will be put to the scientific community by the political leaders. Unfortunately the challenge is seldom accompanied by the funds to make possible the solution of the challenge's problems.

For the moment it appears that if the challenge comes in the near future, we are going to be ill-equipped to meet it.□

Murray McMillan is a writer for the Vancouver Sun.



Bamfield

Recycled and More Important Than Ever

Jim Banham

The Bamfield Marine Station in Barkley Sound on the west coast of Vancouver Island occupies a solid, Victorian-looking concrete building that was once the terminus for the trans-Pacific telegraph cable that linked Canada with the Antipodes.

The man behind the trans-Pacific cable was Sir Sanford Fleming, a key figure in the construction of the Canadian Pacific Railway who, in the late 1800s, envisioned the "All-Red Cable Route" linking Britain and her overseas colonies. Red, of course, was the color used on maps to designate the countries of the British Empire.

The Bamfield station was built in 1902 and Sir Sanford received the first message transmitted over the cable from New Zealand to Canada.

The building itself, stolid and utilitarian, was designed by Francis Rattenbury, who also designed B.C.'s Parliament Buildings and the Empress Hotel, two of the glories of Victoria. On a plateau at the rear of the cable station, which is set into the hillside just above Bamfield Inlet, there once stood an incredible collection of gabled and turreted wooden buildings that housed station employees. The station also boasted a community hall, tennis courts and a rifle range for the Australian, British, Canadian and New Zealand staff members.

In 1955, plans were made for a semi-automatic station with a technical staff only. Three years later the Canadian Overseas Telecommunications Corporation obtained land for a new station in Port Alberni. A new cable station was built and a cable laid up the Alberni Inlet.

On June 20, 1959, the new system was initiated, and after 57 years of operation the Bamfield station was closed. Later, all the buildings on the property, except the cable station itself and the cable storage tanks, were torn down. The cable station building had been designated as an historic site and monument in 1930.

For almost ten years the old cable station sat abandoned at the mouth of Bamfield Inlet. Mould and mosses invaded its three floors and vegetation surrounding the building began to obscure its outlines and creep in through its many windows.

The idea of establishing a marine station somewhere on Canada's west coast had been canvassed for a number of years at UBC, chiefly by Dr. Ian McT. Cowan, BA'32, who retired in 1975 as dean of graduate studies.

It was not until the late 1960s, however, that five B.C. and Alberta universities agreed to establish a combined program of teaching and research in the marine sciences and began a search for a suitable site for a marine station. The institutions involved were the Universities of Alberta and Calgary, UBC, Simon Fraser University and the University of Victoria.

A steering committee established to investigate site possibilities unanimously recommended Bamfield. The old cable station, located on 190 acres of property, was purchased from the C.O.T.C. for $80,000. Title to the property is held by the University of Victoria for the five universities.

The idea of forming a consortium to manage the marine station was the brainchild of Prof. William Hoar, the then head of UBC's zoology department and a noted fish physiologist who still teaches at UBC.

The name settled on for the consortium was the Western Canadian Universities Marine Biological Society — WCUMBS for short. Each university names two representatives to the WCUMBS board of management. UBC's current representatives are Robert Scagel, BA'42, MA'48, head of the department of botany, and dean George Volkoff, BA'34, MA'36, DSc'45, of the faculty of science.

In 1971, WCUMBS received a $500,000 grant from the National Research Council to assist in the development of facilities at Bamfield. Among the projects financed by the grant was the installation of a system of pipes and holding tanks for fish and other marine life, and equipment designed to prevent interruption of sea-water flow which could destroy months of research.

The total capital investment so far in the Bamfield station exceeds $1.5 million and it's estimated that the replacement value of the station building and equipment is more than $3.5 million. The station's annual operating budget, contributed to by the five participating universities, is $180,000.

The first classes in marine biology were held at Bamfield in 1972. In the summer of 1975 a total of five courses, which enrolled 64 students, some from as far away as Montreal and New York, were offered.

The first students at Bamfield lived in tents. Since then, eight attractive cottages have been built near the main laboratory building. Six are used by visiting summer students, while the other two house station administrators, including Dr. John E. McInerney, of the University of Victoria, the director of the station. Students and visiting faculty eat in a comfortable, modern cafeteria building which also doubles as a social centre and, from time to time, as a lecture hall.

Summer courses at Bamfield operate on a total-immersion basis six days a week. "The eight-hour day simply hasn't reached Bamfield yet," says McInerney.

WCUMBS has also started a special program in the marine sciences for students in B.C. high schools and community colleges. A selection of mini-courses lasting from one to five days is offered between September and April each year. The program is designed to enrich high school and community college biology courses and to expand student understanding of the marine environment.

Bamfield's busiest period is from May to August when the 10,000-square-foot laboratory building is a hive of activity. On the uppermost of the three floors of the building students and researchers occupy a variety of research laboratories and cubicles. One floor below,

rows of students peer into microscopes or hear lectures from the station's summer staff. On the same floor is a small library, always crowded during the summer with students and researchers.

And on the ground floor of the building live dogfish and skate swim endlessly in huge holding tanks. Running the length of the building is a row of small aquaria holding samples of live marine life. Visitors to this floor have to pick their way around discarded wet suits and scuba equipment worn by students and researchers when venturing out into Barkley Sound to collect specimens.

In the farthest corner on the ground floor of the building, the stump of the former trans-Pacific cable can be seen coming through the concrete wall. Above it, a brass plaque briefly describes the history of the cable and the station.

From the penthouse atop the research station the visitor has a sweeping view of Bamfield Village directly across the inlet and, to the north, a distant group of mist-shrouded islands in Barkley Sound. Directly below the marine station, at the foot of Cardiac Hill — so-called because its steepness causes even the young to puff from the exertion of walking up it — three student researchers, two of them in wet suits, clamber into one of the large rubber dinghies used for cruising the waters of Barkley Sound. The sound of their laughter and joking carries easily in the balmy summer air.

When all their equipment is aboard, the students untie the dinghy and paddle out into Bamfield Inlet. A girl, dwarfed by her two male companions, takes her place in the rear of the dinghy, makes a few adjustments to an outboard motor, and heaves on the starting cord.

The motor refuses to start and the boys in the bow of the dinghy kid her mercilessly. She pays no attention to them.

Finally the motor catches, sending out a cloud of pale, blue smoke. The girl adjusts the idling mechanism and then, without warning, throws the engine into gear and applies full power. The two boys are thrown together in a heap at the bottom of the boat from the force of the acceleration. The girl's laughter can be heard above the roar of the engine.

The dinghy planes as it picks up speed, leaving an enormous white wake. Within seconds it has disappeared out the mouth of Bamfield Inlet and the sound of its motor has been lost in the vast, sun-lit reaches of Barkley Sound. □

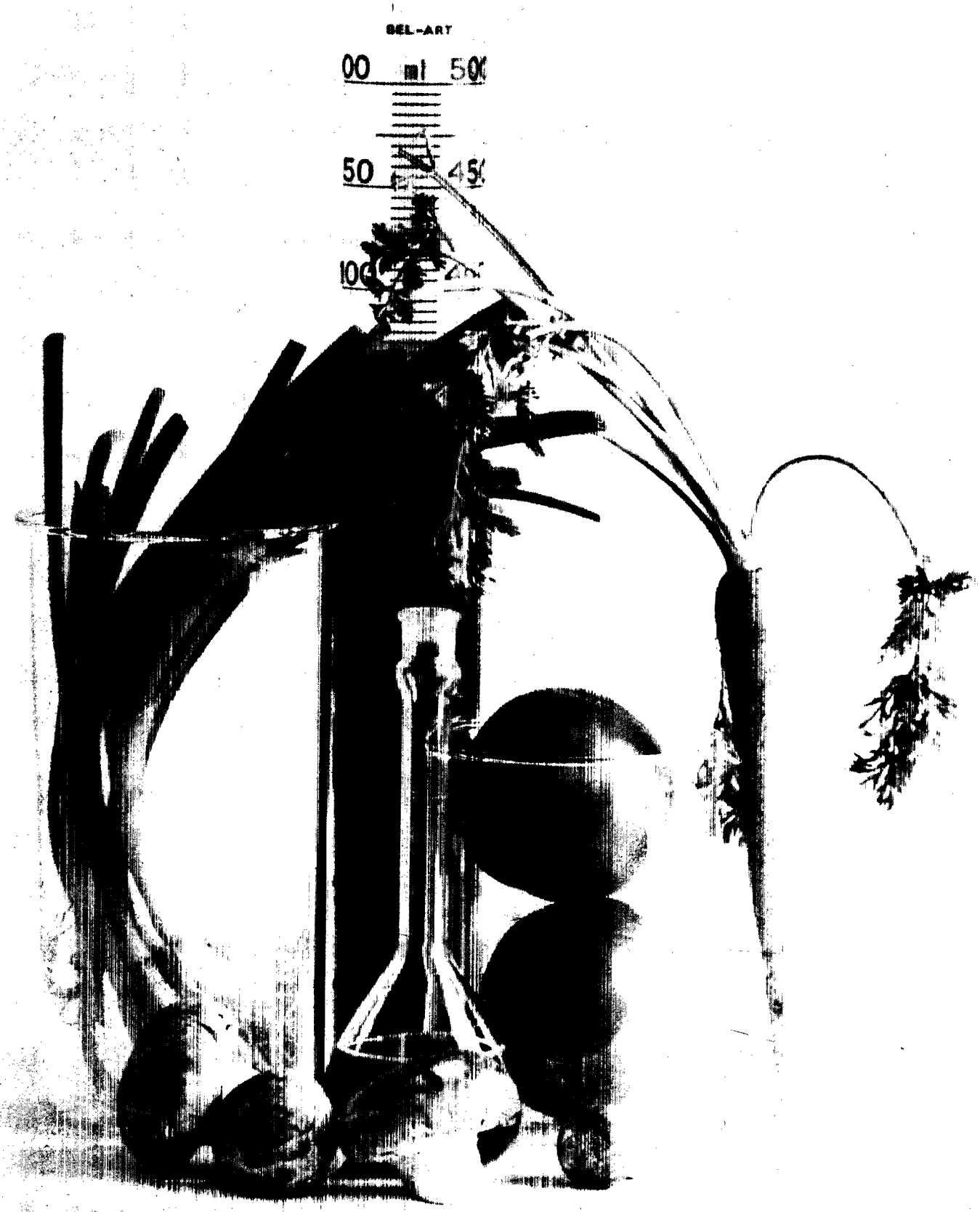
Jim Banham, BA'51, is editor of UBC Reports. *In his deep dark past is a period spent as editor of the* Ubyssey.

Elaine Clark, Sc. 4 (UBC) and Mark Walsh, Sc. 4 (SFU) share a lab assignment, part of their credit course in marine biology at Bamfield.

Jim Banham

Some of the finer points of fish skeletons are discussed by Bruce Leaman, UBC grad student in animal resource ecology and Paul Ryan, right, Bamfield research assistant.

After lunch there is time to enjoy the sun on the cafeteria sundeck, before heading back to the lab.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FOOD FOR THOUGHT

Nicole Strickland

Gluten au Gratin, Rapeseed Rissoles, Sauteed Soy beans may not yet be on your local gourmet menu, but wait for them.

Palatable rapeseed, soy beans, gluten, and other plant proteins play a key role in man's diet of tomorrow — a diet which of necessity will make more efficient use of plant protein systems. These, in combination with one or more other plant nutrients, will form "complete" proteins suitable as meat extenders or meat alternatives.

The switch from traditional meat and potatoes to fabricated or extended plant foods is made inevitable and necessary by a world population expected to double by the year 2000. Scientists are optimistic about the world's ability to feed its billions up to that time — beyond that date, concern grows.

The noted science-fiction writer, Arthur C. Clarke, has predicted the most essential food of the future will be the protein found in plant oils. Three per cent of the world's edible oil production, he estimates, could feed everyone.

Scientists throughout the world are examining these and other solutions to the problems facing man. UBC's department of food science, in the faculty of agricultural sciences, is no exception. Under Dr. William Powrie, the department's seven faculty members are each engaged in basic and applied research in an integrated effort to forge another link in the development of new systems, new alternatives, and new processes to meet the world's ever-increasing demand for food.

UBC's seven-year-old food science department, integrates the disciplines of chemistry, physics, biology and mathematics. The key word here is "integrates". Because the department is relatively small, staff members combine and complement their scientific interests in a forward-looking thrust towards new product development and new ideas.

Foremost is the aim of finding solutions to the predicted world food shortage. "Proteins hold the key," Powrie says, "and it's in this area our department is most interested. We can't economically synthesize proteins at the present time, so we're trying to make better use of what we now have."

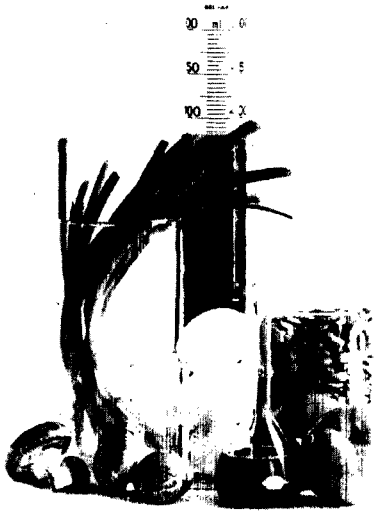
Rapeseed, gluten, muscle, eggs, and milk protein systems are of prime interest to the department. "We want to utilize the agricultural products of Canada," Powrie says. "Wheat is our number one protein crop — we're attempting to solubilize gluten (wheat flour protein), which is an elastic, cohesive mass. We want to separate it so we can produce a protein which will resemble milk, whip up like egg white, serve as an egg yolk substitute, or act as an extender for meat products such as sausages, weiners and luncheon meats."

To date, the department's attempts at solubilizing gluten have received funding from Environment Canada, Agriculture Canada, the National Research Council and the B.C. department of agriculture. Now, under proposed complete funding from the federal department of industry, trade, and commerce, the possibility of a Canadian center for food protein research, to be located at UBC, is nearing reality.

"The gluten project would probably be one of the main protein systems this center would deal with," Powrie says. "We'd like to act as an exploratory lab for the isolation and characterization of proteins.

"Our tangible goal is to produce palatable, nutritious, acceptable, high-protein foods — a goal important to the world at large. We want to find basic proteins to add to the native foods in different parts of the world. As our population increases, we're compelled to go to extenders, if not simulated products. If we can solubilize gluten, we can alter it to bring about an emulsion useful in extending milk. If need be, we may even be able to make simulated milk."

Mark Kaarremaa



Rapeseed, too, would constitute an important area of the center's research. "Rapeseed produces an excellent oil, but its by-product — rapeseed meal — is also very high in protein. At present, most rapeseed meal is fed to animals; we want to feed it to humans."

Another faculty member, Dr. Shuryo Nakai, has developed a charcoal filtration system to remove the toxic compounds from rapeseed, making it suitable for human consumption. The meal, considered a high-quality protein, could be used as a meat substitute or a supplement for cereal products. Says Powrie: "It could be used in making weiners, whipped dairy products or as an additive in bread.

"Bread is low in one of the essential amino acids — lysine. Rapeseed has a high lysine content. Combined with wheat flour, rapeseed meal would produce a more nutritious loaf. So far, the big stumbling block has been rapeseed's toxicity. We don't know what the consumer reaction will be, but we will all probably have to change our lifestyles and future food habits to alleviate famine.

"An optimum system would allow humans to utilize plant proteins for their complete protein requirements. Traditionally they have consumed animal protein, the best protein so far available." The traditional system, Powrie argues, is wasteful. Beef cattle gain one pound of muscle for every ten pounds of feed ingested; chickens fare somewhat better, gaining one pound of muscle for every five pounds of feed.

There have been food shifts in the past — from butter to margarine, from milk to carbonated beverage drinks, from whipped cream to Cool Whip, from fresh orange juice to Tang. Consumers can expect more radical changes.

Coming, says Powrie, are more high-protein "complete meal" drinks; simulated egg products in which both yolk and white will consist of solubilized gluten; a return to the meat extenders that made a brief appearance on retail shelves until dipping meat prices adversely affected extender sales; essential mineral and vitamin pills for the diet of the future; simulated foods nutritionally balanced so that they are regarded as complete foods.

One reassurance — Powrie says the popular misconception of a "pill" to replace a meal is highly unlikely. "People," he says, "will always want something they can sink their teeth into."

We can expect an even greater number of convenience foods. The growing numbers of women in the work force have indicated a rising demand for fast foods. Helping industry meet this demand, Powrie and his department co-worker, Dr. Marvin Tung, BSA'60, MSA'67, PhD'70, each played a part in the development of the newly-marketed "pouch pack" foods that recently made their debut in B.C. supermarkets.

Requiring no refrigeration, the pouches containing entrees and fruit have a shelf life of two years. They can be eaten cold or popped — pouch and all — into boiling water for a brief heating period. The pouch packs as an alternative to tinned or frozen foods are simpler and faster to prepare, require no pot scrubbing and are but one example of new food development.

Other developments are not so readily apparent. Consumers take certain food qualities for granted, unaware of the years of industrial and scientific research devoted to perfecting the quality of foodstuffs.

Most consumers have never heard of xanthan gum, developed and marketed during the past decade after 15 years' research. Without the addition of xanthan gum, commercially made pies would have soggy crusts as the fillings seeped into the pastry; the relish on our hotdogs would slide off the weiner and soak into the bun; syrups wouldn't pour and cling smoothly, lacking the gum's benefits of controlled penetration and run-off.

Tung is keenly interested in xanthan gum, a food additive with both texture-modifying and stabilizing properties. Most of the product is manufactured in San Diego — a scientific project to which Dr. Tung's research has contributed.

The story of the gum's cultivation can be likened to that of raising sheep to produce wool. Certain strains of xanthan bacteria occurring in nature are particularly efficient producers of polysaccarides — large molecules composed of individual sugar units.

Polysaccarides are food gums — stabilizers and texturizers. In large fermenting vessels, the xanthan bacteria — each of which magnified 8,000 times resembles an overstuffed rice krispie — synthesize the polysaccarides and extrude them as capsules of xanthan gum. The gum, which by itself contains no nutritive value, is then collected, dried, stored, and shipped.

In solution, the gum shows what Tung describes as "weird rheological behavior." A small amount of the polysaccaride added to, for example, salad dressing, allows the mixture to remain thick on standing, but to thin readily when shaken before pouring. The gum's high viscosity on standing prevents the oil droplets in solution from separating. In industry, the gum is used in dressings, sauces, gravies, frozen foods, juice drinks, and the earlier-mentioned relishes and syrups.

A rougher grade of the gum is a boon for oil drillers. The gum, entering into solution with the well's oil, suspends

loose rocks, so that they come spewing from the well with the oil. The rocks are later strained out — a vast improvement over the days when rocks could clog the flow of oil from the well by blocking the drill hole.

All well and good for industry . . . but what about the consumer, whose homemade oil and vinegar salad dressings never fail to separate at the table? Science is seeking an answer there, too. Tung says the possibility that such gums will be available to consumers is not unlikely.

"Emulsions and gums might one day be purchased in a mixture, ready to add to such things as homemade salad dressings. The emulsifier would stabilize the oil droplets in the aqueous phase; the gum would thicken or increase the viscosity of the aqueous phase to prevent separation."

Already developed, but not yet marketed, are "multi-purpose" foods — each a single commodity utilized for a wide variety of food preparations. UBC's department of food science has already produced one such food, much in line with Arthur C. Clarke's predicted "food of the future." Dubbed "multi" by Powrie, the product is a vegetable oil protein emulsion resembling mayonnaise in appearance but storable at room temperature.

Upon its dilution with vinegar, "multi" can, indeed, make mayonnaise. Added spices produce a salad dressing. Beating and blending water with "multi" results in a whipped topping. Sugar and water mixed with the product make a smooth icing. Replacing a recipe's egg and oil, "multi" can be used in making a cake. Cream for your coffee? Just combine water and "multi". Want cream cheese? Add "multi" to cottage cheese.

Water soluble, the product disperses into small droplets with a quick stir. No, consumers can't purchase it yet — but it's one of several possibilities for the future. It's hoped the product will not only save consumers money, but will lessen the weekly grocery load toted home from the supermarket.

"Not all our work is directed to offering industry new products," says Dr. Philip Townsley, BSA'49. "Right now, one of our students is working on high-temperature fermentations that completely remove all pathogenic organisms from animal waste. The waste can then be converted to animal feed.

"Another student is working with brewery waste materials to develop a product of value to the brewery industry. One student's work is with waste starch and its conversion to commercial products. Still another student is developing a fermented milk, closely related to yoghurt. I feel it's going to be a popular product."

Each example, says Townsley, is a practical application of research. "Much of the work of tomorrow is highly academic and highly theoretical. We may develop similar products or even altogether different products as a result of this type of research, but let's be practical . . . who's going to buy these new foods? I'm a great believer in carrots, potatoes and meat. New foods have to be practical and acceptable, because nobody's going to want to give up basic foods." A biochemist and microbiologist, Townsley's research concerns the basic biochemical operation of a plant cell, with the goal of harnessing this knowledge in producing what he terms "desirable" new products.

"As yet, science can't chemically direct plant cells to produce large quantities of desirable by-products such as peppermint oil. Using a tissue-culture method, though, we have made cocoa in a flask. We've had problems with coffee; we made it once, then lost it. I don't think we'll ever be able to replace foods such as carrots and potatoes — the point is to make a better carrot or potato."

The department's Dr. James Richards adds, "I think we're going to lean much more toward plant sources for our basic foods. Nutritional and cost factors will be of paramount importance. My own research has been with animal muscle systems; we hope the work may lead to better eating quality, better keeping quality and other improvements in meat. Maybe one day, industry won't have to go through meat's aging process. As part of the total meat operation, that adds cost. Our research is looking in that direction, too.

"I'm not sure one looks a fixed distance ahead in the application of research. Some research has a specific end-point in mind, but for much of it, one doesn't know when the research will be determined. One just has to keep plugging along."

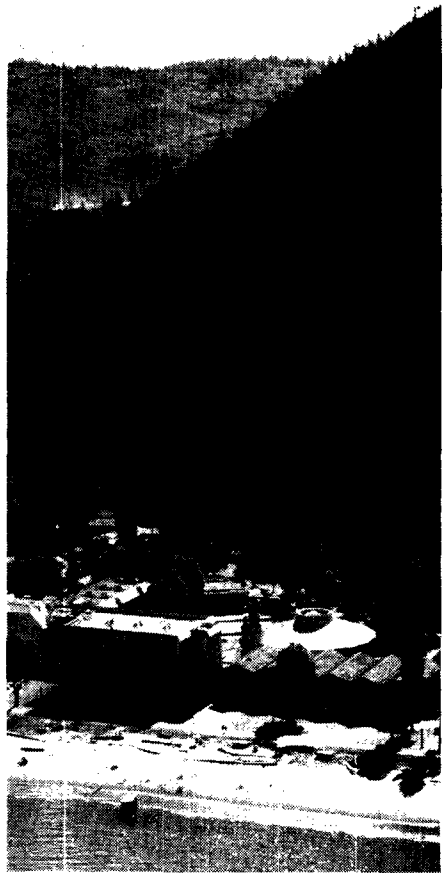
***

The department's free-to-the-public and most useful Food Information Service (228-5841) answers questions on food safety, grading, quality, additives, preservation at home and in industry, composition, labelling, nutrients and processing.

What they do *not* do is recommend diets, accept complaints or enquiries about prices, or give recipes. Food science graduate Lorna Alpin will be pleased to accept your calls from 1:00 to 3:30 p.m. weekdays.

If a question hits you in the middle of the night, leave your query with the recording device monitoring the phone. Alpin will get back to you during the service's normal answering hours. □

Nicole Strickland is a writer for the Vancouver Province.



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Alumni Fund Annual Report 1975

These happy faces belong to some of our UBC alumni scholarship winners.

I am deeply indebted to the alumni association for helping me out of financial difficulty. In return I can only say that this bursary has instilled in me a greater desire to be successful at university . . . .

Thank you for your generous award of an alumni association scholarship. Such a grant at the beginning of many years of study serves not only as academic encouragement but to ease financial stress . . . .

If this letter is messy it is because I just received your award and I am still jumping up and down . . . .

In these letters and nearly 300 more like them UBC students expressed their thanks for the scholarships, bursaries and other financial aid received through the UBC Alumni Fund. This year nearly $90,000 was allocated for direct student aid. In many letters the encouragement that the award represented seemed *almost* as important as the money.

"One thing that I particularly like about this kind of fund is that the people who are receiving the money are without any doubt people who are working hard and deserve it," said Roland Pierrot, who chaired the alumni fund committee during the past year. "The students are out there working hard and the alumni fund is there helping them, and there is never any question in anyone's mind as to whether or not they deserve it.

"We're very grateful that so many alumni seem to feel this way about the alumni fund. The past year was a difficult one for the economy and we were unsure of how this would affect the fund. We are fortunate to have a consistent pool of donors whose number increases steadily every year. We are most grateful to them."

In 1975 alumni donations directly to the UBC Alumni Fund amounted to $186,990, and alumni giving in all categories represented a substantial increase over 1974. The UBC Alumni Fund, as a service, each year reports *all* annual giving by alumni to the university.

Ken Mayer

VLAD

The Walter Gage Bursary Fund was initiated this year with an annual commitment of $25,000 by the alumni fund. The previous alumni bursary fund is now incorporated in this new fund which commemorates the tremendous role played by president emeritus, Walter Gage, in the development of student aid on the campus. Some difficulty was experienced in launching the campaign as the national postal strike came within a few days of the Walter Gage mailing. "We don't know really how much the strike affected the results but we do know that the fund has received very many contributions designated for the Gage Fund," said Pierrot.

The alumni fund is also involved in an administrative support role with the Walter Gage Student Aid Fund, a campus project funded by the engineers and the 1975 graduation class and the Vancouver Rotary Club. This is a special fund specifically not to be used for scholarships and bursaries but rather for supporting innovative student projects and programs and as a "last resort" emergency loan or grant fund, acting in much the same way Walter Gage did as dean of student affairs and president. I.C. (Scotty) Malcolm, director of the alumni fund and Jim Denholme, incoming president of the alumni association are members of the Gage Student Aid Fund committee along with student and administration representatives.

The planning for the fund appeals is done by a volunteer committee in consultation with the director. It's important to note that all the costs — this year $39,500 — related to the campaign, postage, printing, salaries, are all paid from the alumni association budget. All the material used in the alumni fund mailings is prepared and printed at the alumni headquarters.

Every dollar donated is used as designated by the donors — or in the case of "free funds" are disbursed by the allocations committee, within its terms of reference.

In the past year the UBC Alumni Fund was able to provide support for many campus programs. Here is a sample of a few of the projects:

- $2000 provided honorariums for 20 student musicians, participants in the Alumni Concerts Series.
- $4,500 enabled the women's athletics committee to maintain its intramural and extramural sports programs.
- $550 for the *Chronicle* Creative Writing Contest encouraged nearly 60 aspiring writers to participate.
- $600 brought music to the campus through the Dean of Women's "freesee" concert series.
- $437 aided UBC's rowing crews.
- $6,500 went into the Alumni President's Fund over and above a commitment of $10,000.
- $400 helped the Speakeasy student aid crisis program.
- $5,100 provided new sports equipment for the men's athletics committee and the Thunderbird Memory Lane exhibit in the Memorial Gym.

The following is an outline of the major annual commitments of the UBC Alumni Fund:

The **Dr. N.A.M. MacKenzie Alumni Scholarship Fund** honors UBC president emeritus Dr. Norman MacKenzie. Scholarships of $350 each are awarded annually to 64 outstanding B. C. students, chosen on a regional basis, who are entering UBC from grade 12....Bursaries for qualified B. C. students beginning or continuing studies at UBC are provided by the **Walter Gage Bursary Fund**. Formerly the Alumni Bursary Fund, the new name is a tribute to Dr. Walter Gage, president emeritus, for his many years of service to the university and its students. The minimum annual commitment of funds for the Gage bursaries is $25,000....The **John B. Macdonald Alumni Bursaries** honor another former president of UBC, Dr. John B. Macdonald. Bursaries of $350 are awarded annually to sixteen qualified students entering UBC from the B. C. regional colleges. Dr. Macdonald was one of those instrumental in the introduction of the community college system to B. C.

Alumni living in the United States contribute to UBC through an organization called the Friends of UBC Inc. (U.S.A.). The **Dr. N.A.M. MacKenzie American Alumni Scholarships and Bursaries** were established by the Friends of UBC as a tribute to the former president. Ten scholarships or bursaries of $500 are available annually to students whose homes are in the United States and who are beginning or continuing studies at UBC. Preference is given to the sons and daughters of alumni....**Southern California alumni** offer a $500 annual scholarship, with preference given to a student whose home is in California or the United States. Failing a winner in either of these categories, the university decides the recipient....An additional scholarship of $500 for a student whose home is in the U. S. was established by the Friends of UBC in memory of **Daniel M. Young**, BA'52, an active member of the Friends of UBC for many years.

The **Stanley T. Arkley Scholarship in Librarianship** was established by the UBC Alumni Association in 1972 in honor of Arkley's long and dedicated service to the university and the Friends of UBC. The $500 annual award reflects Arkley's continuing interest in UBC's library and its collection.

Two awards are given under the heading of the **UBC Nursing Division Alumni Association Scholarships**. One of $500 for a student entering third year nursing and another of $250 for a student entering second year. One of the criteria is a demonstrated potential for nursing.

The **UBC Alumni Association President's Fund** was established nine years ago to provide the university president, through an "in trust arrangement", with a discretionary fund of at least $10,000 to be used to support a wide range of special campus projects.

The university's first president, Dr. Frank Wesbrook, is remembered through the **Dr. F. F. Wesbrook Mem-**

orial Lectureship Fund which provides an annual honorarium fund of $1,000 to bring distinguished lecturers in the health sciences to the UBC campus. In the past year neurophysiologist Sir John Eccles, Nobel Laureate in 1963 for medicine - physiology, and Sir Richard Doll, Regius professor of medicine at Oxford,visited the campus as Wesbrook lecturers.

The Alumni Fund, in addition to its regular scholarship commitments, continues to play an active part in fund-raising in several specialized areas including memorial funds. In most cases the fund has accepted full responsibility for organizing the appeals which have established many continuing awards.

This list is a prestigious one headed by the **Sherwood Lett Memorial Scholarship** of $1,500, awarded to an outstanding student who most fully displays the all-round qualities exemplified by the late Chief Justice Sherwood Lett, UBC's chancellor from 1951-57....A scholarship that looks for the same qualities in a student is the **Harry Logan Memorial Scholarship**. This award of $750 is restricted to a student entering fourth year. Harry Logan had a long and distinguished career as professor of classics and was an active member of the university community.

The **Frank Noakes Memorial Fund** provides bursaries for students in electrical engineering....The **Johnnie Owen Memorial Athletic Award** of $250 recognizes a student with good scholastic standing and outstanding participation in the student athletic training program or extra-mural athletics....The **Kit Malkin Scholarship** of $500 is awarded to an outstanding student in biological sciences in need of financial assistance. Malkin, who died while attending Stanford university, graduated from UBC with first class honors in zoology in 1963.

A scholarship in memory of Professor **Leslie Wong** is awarded to a graduate student in commerce and business administration....In forestry, the **George S. Allan Memorial Scholarship** of $400 is given for graduate work in fire science or silviculture....Two $500 scholarships are available for students entering second year metallurgy from the **Frank Forward Memorial Fund**.

The campus Greek societies, the **Panhellenic Association** and the **Interfraternity Council**, provide an annual bursary for an undergraduate in need of financial assistance....The school of social work is able to bring distinguished scholars and leaders in the field of social work to the school through grants from the **Marjorie J. Smith Memorial Fund**....The **Jacob Biely Scholarship** of $300 for a student in poultry science, is continuing recognition of Dr. Biely's contribution to the development of poultry science at UBC. Encouragement of student writing is not confined to the *Chronicle* creative writing contest. The **Mack Eastman United Nations Award** is an annual prize of $100 given in memory of Dr. Eastman for the best essay written on an issue current in the United Nations.

***

Pierrot, who will continue to head the fund in 1976 took a look into the future activities of the alumni fund: "I hope that the bursary funds will have the emphasis in the coming years. I feel that we should be doing more in the direction of student aid, without putting aside the assistance we give to areas such as athletics and campus student projects. Bursaries for part-time students is an area that might grow. The alumni fund allocated money last year for that purpose. As the part-time student idea grows, we might even find that it would be a case of alumni helping alumni, as the part-time students might well be alumni themselves."

UBC's new Aquatic Centre forms an important part of the UBC Alumni Fund's 1976 program. Administrative support for the fund drive is being provided by the alumni fund office. "We are doing everything we can to help support this huge project," said Pierrot. "We support the pool and we hope that alumni will support it too. But it is certainly not intended to take away from anything that the UBC Alumni Fund is already doing. Our scholarship and bursary program is still the first and foremost aspect of the fund."

Fund Executive

E. Roland Pierrot, '64 *Chair*
Dr. Mickey McDowell, '69 *Past Chair*
James F. McWilliams, '53 *Allocations*
John R.P. Powell, '45
Kenneth L. Brawner, '58
Paul L. Hazell, '60
Alfred T. Adams
Harry J. Franklin, '49
Susan Jamieson McLarnon, '65
Ian C. Malcolm, '35 (W) *Director*

Friends of UBC Inc. (U.S.A.)

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Stanley T. Arkley, '25, *Vice-president*
Robert J. Boroughs, '39, *Treasurer*

Directors

Nora Ottenberg, '48
Frederick L. Brewis, '49
Cliff Mathers, '23

Ex-Officio

Ian C. Malcolm, '35, (W)

Allocations Committee

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John R.P. Powell, '45
Brenton D. Kenny, '56
Donald MacKay, '55
Allan D. Thackray, '58
Dr. Mickey McDowell, '69
E. Roland Pierrot, '64
Harry J. Franklin, '49
Ian C. Malcolm, '35 (W)

Alumni Annual Giving 1975

(A report of alumni giving to the University of British Columbia from April 1, 1975 to February 29, 1976. These are interim figures. The fiscal year for the university is April 1st to March 31st and a final report will be issued after March 31, 1976).

SOURCE	DOLLARS
Direct — STUDENT AID ONLY	
UBC Alumni Fund and Friends of UBC (U.S.A.)	$186,990
Building Funds*	
(In co-operation with the University Resources Council)	
Agricultural Sciences Building Fund	3,370
Geological Sciences Centre Fund	19,450
Law Building Fund	43,550
Commerce and Engineering	2,270
1975 Graduating Class**	$ 16,000
Cross Credit from UBC Finance Dept.	
Other Gifts***	32,450
TOTAL	$304,080

* *Cash and payment on pledges.*
** *Major 1975 graduating class beneficiaries were the University Day Care Council and the Walter Gage Student Aid Fund.*
*** *Other gifts represent a multiplicity of areas, where the alumnus contributes directly to the faculty or school related to a specific project. These gifts are considered in lieu of donating to either the UBC Alumni Fund or the Friends of UBC (U.S.A.) and include larger gifts in the range of $1,000 to $5,000.*

UBC's New Aquatic Centre

Ken Mayer

At the moment a hole in the ground, in a few months an aquatic centre. (Left to right) Bill Broody, AMS arts rep., Dave Theessen, AMS internal affairs officer, Roly Pierrot, alumni fund chair and Dave Coulson, AMS treasurer, survey the work in progress.

Yes, UBC is about to get an indoor pool.

Since the day they finished Empire pool in 1954 there have been plots and daydreams to provide an all-weather umbrella for this aquatic facility. All the suggestions proved impractical and planning began for a complete aquatic centre, suitable for academic, competitive and recreational activities. The project, which began construction this fall, survived a number of setbacks before the go-ahead came from the board of governors following president Doug Kenny's call for "an act of courage and optimism" to start construction. The courage was needed because of the uncertainty of the financing. The students had once again, dug into their pockets and committed $925,000. They will still be paying in 12 years time. The university contributed a similar amount. Additional funds have come from the provincial government. Combined, there is enough money to complete the external structure — but with no landscaping — and the tiled pool. Everything but the mechanics to make it work.

The classic hole in the ground with no use, you say? Doug Aldridge, BASc'74, campaign director for the aquatic centre fund, replies: "Obviously critics will say, how could you be so irresponsible as to go ahead on something that won't be usable? The only reply we can make, and the reason the board of governors went along with it, is that if you have $2.5 million in the bank, with costs rising each month, you had better spend it fast or it will be gone through inflation." Inflation has taken a heavy toll — $40,000 a month.

The pool has been designed so that it can be used for a number of purposes simultaneously, allowing considerable flexibility in scheduling. The management agreement that was signed by the students and the university ensured that there would be community representation on the board of directors for the pool and that considerable time would be allotted for community swimming.

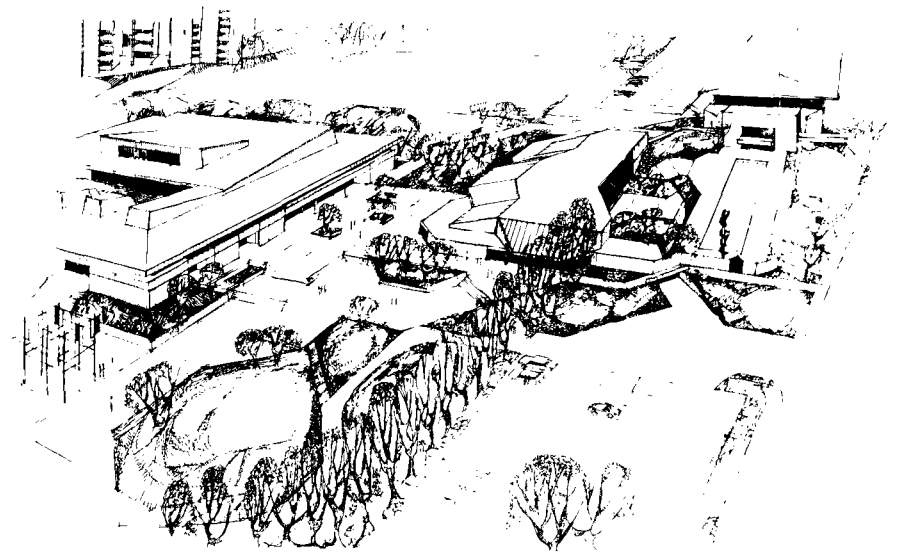
Now what is needed is $1.3 million to essentially finish the project and put water in the pool. Stage one of the construction is covered by the funds on hand and if all goes according to schedule, it should be finished by December '76. If funds are available construction will move straight into stage two and the pool will be ready for September '77.

In January a local house-to-house campaign was held by the students during a torrential downpour, but the community response was encouraging. Funds pledged that day are continuing to come in. Campus personnel have responded generously with gifts and pledges and tentative plans are being made for a corporate campaign later in the year.

Alumni have played an important part in the fund raising plans. Harry Franklin, alumni association executive director, and Scotty Malcolm, director of the alumni fund, have served on the various planning committees almost from the beginning. The alumni board of management has endorsed the concept of the pool and has agreed to include the pool fund campaign as part of the alumni 1976 fund program.

It's part of UBC's tradition — the students and the alumni together have played a most important role in providing this campus with needed facilities. The students are making the largest contribution they have ever made to a building fund — with the exception of SUB, which was paid for almost entirely with student funds. Since 1970 alumni have contributed nearly $500,000 to campus building funds — geology, law, agriculture, commerce, engineering. Those appeals represented special interests. The UBC Aquatic Centre is for the entire campus, for the years to come. They hope you will dive in and help out. □

When it's finished the new aquatic centre will look like this.



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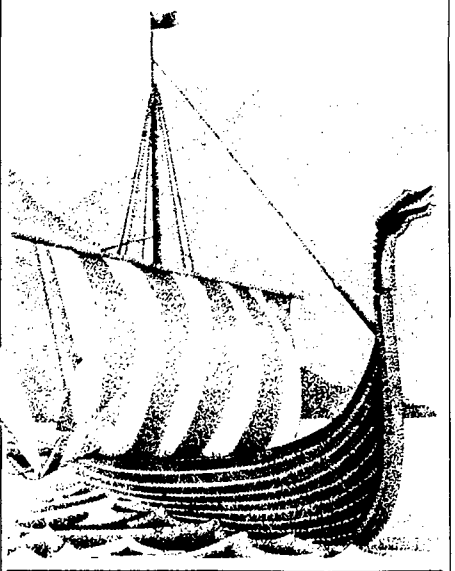

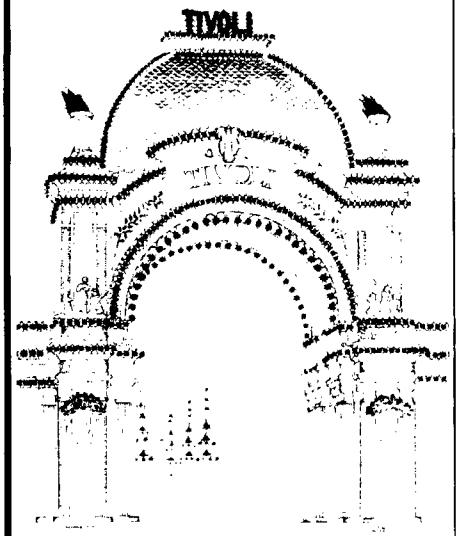

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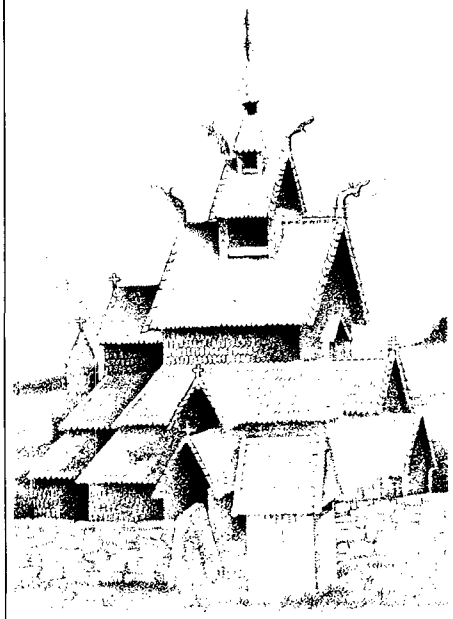

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A Vice-presidential Portfolio

UBC's top administration has taken on a new look in the past few months. It now has four vice-presidents who report to president Douglas Kenny and who are responsible for specific areas of administration. By way of introduction the Chronicle offers these brief profiles....

Chuck Connaghan

"I see myself as a generalist," says Charles J. (Chuck) Connaghan, vice-president of administrative services. And a good thing too, as he is responsible for many of the wide range of services needed to run the community of UBC, pop: 25,000.

Born in Ireland, educated in Scotland and drafted into the British army, Chuck Connaghan came to Canada in 1953 after finishing his national service. He worked for two years at Ocean Falls "to make enough money to come to UBC." He graduated in psychology in 1959, the year he was AMS president, and followed up the next year with a master's degree.

The natural step was to personnel work that took him in 1961 to eastern Canada. The next nine years he spent in Ontario and Quebec as manager or director of industrial relations in the mining and forest industries. He was named to head the B.C. Construction Labor Relations Association in 1970.

His return to the Coast was a return to UBC as well. He served terms on senate and the board of governors. "It was an interesting involvement. At the senate you get one perspective. At the board you get a broader one. It has been a sort of apprenticeship for me."

The list of his responsibilities is extensive: personnel; physical plant; construction and maintenance; purchasing; office services; traffic and security patrol and information services. Connaghan's first few months — he joined the staff last October — have not been uneventful. In December on the eve of Christmas exams, UBC was struck by its clerical and library staff. While things were a bit difficult, the university did not close and the exam schedule was maintained.

"I am still opening doors and finding out what's on the other side but one thing I am impressed with is the fact that UBC is very lucky in having the kinds of people it does on the non-academic side. They are not very visible but without them the whole operation would run down very quickly. I think that those people are the real heroes, if that's the appropriate term, in keeping this university going." *- SJM*

Jim Banham

Michael Shaw

Michael Shaw flashes a broad grin and a chortle mixes with a puff of smoke from his pipe when he is asked what his new job entails. "I was afraid you were going to ask that question," is the reply.

The first description that comes to his mind is "grabbag." But on second thought "diffuse responsibilities" might be a more proper way of putting it.

Grabbag is the word.

The president's office has one of those marvels of modern management, the organizational chart. On it, four lines fan out from the president's compartment, and one of them goes to the "Vice-president of University Development." Beneath the title lies Michael Shaw's grabbag.

The library, research administration, the computing centre, academic planning, the instructional media centre, systems services, animal care on campus, TRIUMF, the Centre for Continuing Education, summer session — they all come under Shaw's wing, along with several more items.

After eight months in the position, a reasonable settling-in period, he appears to be enjoying it. Coming from his previous post as dean of UBC's faculty of agriculture, he has found a considerable amount of adjusting necessary. "The big difference is in the size of the system one is working with. It's a slower process here and there is a great deal more involved in it. There isn't the

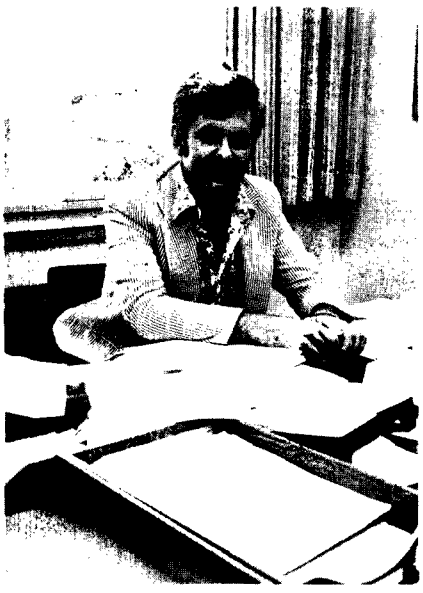
same degree of freedom to make changes," he says.

"As a dean I felt I had clearly defined aims to work toward within the budget available. Here you don't have direct control over budgets. You have to look at programs and try to assess their strengths and weaknesses, then work through advice and negotiation."

Surprisingly, his academic career did not include any agriculture degrees. His work has all been in botany — BSc, MSc and PhD from McGill, post-doctoral studies at Cambridge — with the agricultural connection coming through his study of crop-attacking fungal organisms such as wheat rust.

His interests outside the university are devoted to "my wife, four kids, a Labrador dog and a cat." Time is allotted to jogging and swimming (a mile every Sunday at the Vancouver Aquatic Centre) and a great deal of reading. Despite a hectic schedule he continues to work with graduate students and to edit the *Canadian Journal of Botany*, which he has done since 1964.

"It may sound trite, but my overriding interest is in academic quality, both for the students of the university and in the students themselves." - *MM*



Erich Vogt

"Sitting in this office I see some real crying academic needs. The decisions you must face are whether something else must be closed down and money transferred in order to satisfy those needs."

The speaker is Erich Vogt, who last July 1 became UBC's first vice-president of faculty and student affairs.

"For a long time, the university was in a mode of exponential growth, but that mode is now over. Now the problem is one of making choices and that is a very difficult one," says Vogt.

The decisions he must make fall into two broad areas: First is student affairs which includes residences, the registrar's office, the university health service, the student services office, athletics, International House and several other operations — including the alumni association.

The second, and according to Vogt much more difficult area, is that of faculty appointments, tenure and promotion. "The president's office does not initiate the appointments, it can just give approval selectively and make recommendations to the board of governors," he says. "But when someone retires or leaves, we must decide whether to retain that particular function and its salary. Much of it is done through negotiations with the deans."

He says the arrangements in some of the faculties (he cites medicine as an example, where teaching, research and clinical appointments are inter-twined) are so complex that he still does not understand some of them.

Vogt, 47, came to UBC in 1965 as a full professor in the physics department. His field is nuclear physics and he played a major role in the TRIUMF project. He still teaches a large first-year physics class and it is seldom that he is not on campus by 7 a.m. to work with his graduate students. He's usually at his desk in the president's office by 9:30, and is often there well into the evening.

"I've probably got more energy than is good for me," he says with a typical good-natured chuckle. "I try to work very hard five days a week and keep my weekends clear for my family, although I don't always succeed in that."

Those weekends revolve around his wife and five children and include hiking, gardening, reading and sessions at the piano, which he says he plays badly.

"I don't regard my new job as something I want to do for the rest of my life," says Vogt. "But I'm certainly not growing tired of it." - *MM*

William White

Bill White's job is keeping UBC in the black. Or more properly, William White, C.G.A., is vice-president and bursar of the university with responsibility for the administration of UBC's $126.5 million budget.

The least public of the vice-presidential quartet, his voice retains a trace of Scots brogue after almost 30 years in Canada. He served in the Royal Air Force, attaining the rank of squadron leader and was in business in Britain before emigrating in 1947.

Bill White says he can't remember exactly how many titles he has had in the 25 years he has been a member of the university staff. But one that he is very

precise about is the first one. He came to UBC as *The Accountant* in 1950 when the budget was $4.6 million. Today, and since 1962, he serves as the university's chief financial officer. In the intervening years there have been designations as deputy president and bursar, bursar and treasurer and perhaps a few other posts that have changed their titles over the years.

In the past academic year White carried much of the administration load previously handled by the then other deputy president William Armstrong, who resigned to head the Universities Council. With the appointment of the three new vice-presidents —"I'm not really new, you know," says White — he will be able to devote more time to managing UBC's financial affairs and serving as secretary to the board of governors.

As secretary to the board, he is responsibile for the preparation of all the material that is distributed to the board members before each meeting. In a heavy month there may be a six inch — or more — pile of papers for each member.

There is more to do after the meeting as well, correspondence, decisions to communicate and implement. "There have also been an increasing number of meetings involving the board and its committees. This is only natural as it is a new board," with many new members and they are, "anxious to familiarize themselves with university business so they can discharge their obligations under the Universities Act."

In 1962, the then president Dr. John Macdonald, welcomed the appointment of William White as bursar and treasurer "as a man on whose professional judgement and competence we can rely. His previous experience and intimate knowledge of the university fit him well for his new position." And it's still true today. - *SJM* □

Explorers In A Little Travelled Land

Geoff Hancock

I knew there was something called history when I was a kid because I read a horoscope that said I had the same birthdate, April 14, as Arnold Toynbee, historian. History seemed some exceptional thing, all mossy Greek columns. But history had nothing to do with the evergreens surrounding me in British Columbia.

Then I learned about Canadian history. "Canadian history," my grade eight teacher snorted, as if that said everything, "is something I unfortunately have to teach on the off chance that one or two members of this class might go into politics!" That had nothing to do with me, either.

As for B.C. history, I knew all I needed to know. I grew up in the Royal City, New Westminster, named by Queen Victoria, who had to be historical, since she was famous and dead.

Clearly my microscopic world needed something. History became a stodgy old book with close print and no pictures. The New Westminster *Columbian* did an annual Great Fire of '98 issue but that was too recent to qualify as history for me.

All this came back to me the morning I interviewed Philip and Helen Akrigg, explorers and pioneers in the little travelled land of B.C. history and authors of *B.C. Chronicle, 1778-1846*. I waited for them by the faculty club's fireplace and contemplated the value of a gorgeous cream and red Bokhara carpet.

Along came the Akriggs. Philip Ak-

Ken Mayer

The Akriggs at the Musqueam monument to Simon Fraser.

rigg is a short stocky man in a checked sports coat and heavy glasses, and I sensed chalk on his sleeves, the dust of 34 years service in UBC's English department. Helen Akrigg wears a bright flowered shirt, has a quick bubbling voice, and is clearly ready to spring forth with an opinion on a number of topics.

I would have liked to see them at their house because the faculty club says nothing about anybody's personality, but a few drinks to warm the November in our souls sets my imagination in motion. I could see their Canadiana collection. The CPR silverware.

I had a few CPR yarns of my own and this quickly led to an animated discussion about the coal trains disturbing the summer residents around Shuswap Lake where the Akriggs have a cottage.

A bit of background to *B.C. Chronicle*, which the Akriggs admit was written with a strong missionary streak in preaching B.C. history. Helen Akrigg's special interest is historical geography. Her master's thesis advisor at UBC encouraged her to write on The History of Settlement on the Shuswap Lakes.

"Where did your interest come from, Philip?" Helen asks.

"When I married you, dear," Philip replies, with a characteristic chuckle.

As Philip Akrigg recalls, he was interested in renaissance and British history. He didn't think UBC even had a B.C. history course in the 1930s. Then, Dr. Garnet Sedgewick encouraged him to continue his English studies. Philip, falling under Sedgewick's considerable spell, specialized in Shakespeare and the period of James I, and many years later would write two outstanding scholarly works, *Jacobean Pageant*, which was on the *New York Times* best books of 1962 list, and *Shakespeare and the Earl of Southampton*, a superb study of the relationship between the great playwright and his patron.

B.C. Chronicle is characterized by the same astonishing clarity of prose and staggering depth of research. But the five years research that went into the book are hardly a moment to the Akriggs. After all, Philip spent fourteen years on *Jacobean Pageant*. "We wouldn't waste five years of our life if something like this had been done before," Helen points out. Her voice pours with energy.

A quick stroll through the main library convinces one of the paucity of readable B.C. materials. The antiquity of many texts seems to rival the Dead Sea Scrolls. Dr. Margaret Ormsby did a fine study of B.C. during the 1958 centennial but her book includes the whole history of the province, so she broadly generalizes the early years. Primary sources include the journals and diaries of men such as Cook and Vancouver, Fraser and Thompson. But these are highly subjective, don't overlap and reflect many areas.

They began their study of B.C. with a fascinating compendium of *1001 B.C. Place Names* which described the origins of the names of B.C. towns. The Akriggs side-stepped the tangled world of agents, royalties and contracts with strange publishers and published the book under their own imprint, Discovery Press. The book sold 14,000 copies and the profits went back into their press. The next book they published, *Nature West Coast: As Seen In Lighthouse Park*, was written by members of the Vancouver Natural History Society and it, too, was a best seller. Discovery Press was a success.

Vanity publishing? Not at all, said Philip Akrigg. He said to self-publish was the best advice they got. Part of their success is attributable to finding the Morriss Printing Company of Victoria. Dick Morriss, who "can get you any type you want as long as it is Baskerville," is of the medieval guild hall school of printers and specializes in limited high quality editions. Poet Robert Bringhurst said, "You can tear the pages out of a Morriss book and sleep between them." By working with one of the finest printers in the country, the Akriggs make certain the books of Discovery Press are simply elegant.

The new book is a response to the many suggestions they received from readers that they expand the thumbnail history which opens *1001 B.C. Place Names*. And like any good authors they looked around, saw the need, filled it and Discovery Press was rolling again.

"We were fortunate enough to be able to build on the shoulders of people and to use a great deal of scholarship that wasn't available in the '40s. For example, the journals of Dr. John McLoughlin, a chief factor of the Hudson's Bay Company, weren't published until recently," Philip said.

B.C. Chronicle could not be put together without a great deal of poring over original materials. Philip Akrigg was on sabbatical in London, the "kiddies" were at university and Helen had more time than most researchers to go through the untapped small sources. Missionary offices, admiralty offices, the extensive holdings in the British Museum. The Akriggs' zealousness paid off with a quarter of a million words of B.C. history.

Philip made an invisible pile about a foot high with his hands. Then broke it in half. Luckily the split took place very close to 1846, when the Oregon boundary dispute was settled in the Americans favour, Philip said. With a bit of polishing they had a first volume, with a second due in 1977.

Dull B.C. history? Not at all. The book contains hundreds of stories and the Akriggs admitted they love good stories. "Sure the yarns could have been exaggerated over the years. Nobody knows," Philip said, and I almost detected a wink behind the smile.

So history is a mixture of archeology and journalism? "I'm not ashamed of the word 'journalism'," Philip said. "But this is what I call 'level-eye' popularization. We're not going to sacrifice scholarship, but by God, it has to be readable." The smile is gone and I swear there is almost a threatening tone.

Helen Akrigg echoes this instantly: "This is a scholarly work, but not written for specialists. There is a tremendous need for a scholarly readable book on early B.C."

Notice that I refer to the Akriggs in the plural. *B.C. Chronicle* is a collaboration and the seams of differing personalities are practically invisible. This is apparent in the conversations that neatly dovetail, equally balance, no one person dominating.

"That's our technique," Philip said. "I do a draft then Helen goes over it. That's where the tension comes in. Think twice before collaborating with a spouse. Sometimes writing puts a strain on the marital ties, especially when one wants to walk away from it," Philip said, laughing. I'm relieved the smile returned.

What do the Akriggs call unclear, murky to read prose? Gunk.

"Gunk, that's what we call bits we don't like. Get the gunk out. In this sense, the total *candor* that comes from marriage helps a lot," Philip said laughing, almost wickedly.

The Akriggs are keenly aware that history should be literature. A strong narrative sense, clear and pungent prose. The pages tumble with murder and mayhem, historical characters dominating the pages with "the odor of men," the smell of life.

"At the same time, we didn't want a gory thriller," Philip said. The narrative is restrained by careful documentary proof, the kind that only comes with bibliographical and archival expertise.

Another breed of historian would note the lack of politics in the book, the shortage of historical philosophy, in short, the traditional political history my grade eight teacher would have us future politicians enthused about.

Helen shuddered at the thought. "I think my memory of Canadian history is punctuated. 1793, the Constitutional Act. 1840, the Act of Union. One got so tired of filling in the blanks. When I spent summers in the Cariboo I had neighbours who were homesteaders, pioneers. That's how close we are to the

---

British Columbia Chronicle, 1778-1846: Adventurers by Sea and Land by G.P.V. Akrigg and Helen B. Akrigg, Discovery Press, Vancouver, B.C. $14.85

frontier. And that's where my own interest lies. Not in the growing evolution of federal-provincial relationships, or which party was in power, but in the opening up of the country."

Would my grade eight teacher snort at that?

"We're not concerned with a philosophy of history. We're chroniclers. And chroniclers are rather more homely. And less ambitious," Philip said.

The chronicler is almost a tour guide, who tiptoes back and forth across the years, notes what happens, who people are, what they have to say about themselves. Though the chronicler doesn't come right out and tell us what film to put in the camera, he does tell us where to shoot. 'And now let us turn to...' and 'We last left Samuel Black in a shack in the north....' are standard common phrases in *B.C. Chronicle*.

"That's the problem of the chronicler," said Philip. "There are built in disadvantages. You have to say 'Samuel Black, whom we last met in the north is now....' "

In addition, the Akriggs are aware that the chronicle form is only useful in moderation, that it collapses under the weight of recent historical information. But the chronicle is an old and honorable Anglo-Saxon form and when it works, as it does in *B.C. Chronicle* it's difficult to imagine any other method.

The structure of *B.C. Chronicle* is an unusual one, rarely used by historians because of the sheer mass of information that history tends to accumulate. Each chapter corresponds to one year. Of course, not all years have great historical events which must be recorded.

"I hope you'll note the ingenuity that went into getting some entries for the lean years. We managed to get something for every year," Philip said.

The scrawny bits of information are easily offset by the texture of B.C. as a place and by the individuals who opened the province. Captain Cook lands at Nootka and the Indians offer human hands in trade for iron. Captain Vancouver's men see "large logs of timber, representing a gigantic human form, with strange and uncommonly distorted features," totem poles. In 1818 Fort Astoria is returned to the Americans and B.C. loses the present state of Washington. The Akriggs are clearly upset by this. In a self confessed 'purple passage' the Akriggs write "The Washingtonians of today are friendly and decent neighbours; but one must be haunted by a certain sadness when one thinks on what might have been...Sound a brief lament for our lost kingdom...."

But there is very little journalistic licence in *B.C. Chronicle*. The Akriggs are keen on the minutest details. When they write Captain Francis Drake sailed under cloudy skies, the weather doesn't come from the imagination. The details are recorded on original documents.

Yet for all the documents consulted, the book is still a pleasure to read, with few of the footnotes that George Eliot in *Middlemarch* feared would run away with men's brains. *B.C. Chronicle* is most emphatically not a textbook. The Akriggs don't feel history should be an ordeal.

Philip notes that most history is taught in the early grades, in "a mishmash called Social Studies" which give a feeling there isn't a history, simply because no interesting books have been written. "British Columbians should know about 1858 the same way Californians know about Sutter's Mill and 1849," Helen said.

But to find archival information is not so simple. The Akriggs' extensive researches have taken them around the world. "We had to go to New Zealand to read Edward Bell's journal of Vancouver's expedition. Bell was a clerk (Philip said 'clark') on Captain Vancouver's ship and the complete journal has never been published. Many people don't know Sydney, Australia was a sizable city when B.C. had only a few fur trading posts. Captain Vancouver had a supply ship come from New South Wales and as a result, between 1792 and 1795 several manuscripts found their way across the Pacific," Philip said.

Then to organize the material. The Akriggs' working day begins early. Xerox and tape recorders have sped up the tedious process of transcribing on the spot. Then in the summer, in a cottage overlooking the beautiful Shuswap Lake, the Akriggs fill up filing cabinets, index and cross index their thousands of file cards, spread photographs and old maps on the floor, picking out the best.

My impression is that the Akriggs would be very unhappy doing anything else. *B.C. Chronicle* has redecorated our provincial concept of history and given us a new view of ourselves. My grade eight teacher should have a close look at this book to see where we come from. As we leave the faculty club, Philip puts on a jaunty blue beret and heads for the library's special collections division where he's hiding out during another sabbatical year. I take a look over Howe Sound. A break in the weather reveals the mountains clear and distant. Rain clouds cling to the evergreen forest. For a moment I place a small three masted sailing ship in the waters, then let it go. History has more to offer than Greek columns. □

The Authors Akrigg are both UBC grads: Dr. Philip Akrigg, BA'37, MA'40; Helen Manning Akrigg, BA'43, M.A'64. Review author Hancock, BFA'73, MFA'75,is editor of the Canadian Fiction Magazine.

Edward Chapman

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Ian McKain

Ian McKain

MUSSOC's "Dolly" (played by Roma Hearn, top, centre) received a warm welcome to Victoria on her opening night. Among the alumni who attended a post performance reception were Kirk Davis, branch president, (above, left) and Victoria alderman, J. Robert Ellis, BA'59 and his wife. Master teacher, professor Sam Black visited alumni in California. (Bottom) In Los Angeles he illustrated his talk "From Pender Street to Peking" with impromptu-sketches. Ian Bennett, BASc'64, (right) appeared to enjoy the San Francisco event.

Bruce Ramsey

Thomas J. Kravitz

Alumni Branches: Spring '76

There are no hibernators in the alumni branches during this winter season. Eighty people turned out to a luncheon in **Powell River**, co-sponsored by the local chamber of commerce. Guest speaker Dr. Anthony Scott, UBC professor of economics, discussed Canada's anti-inflation legislation.

Carrying the message east, alumni association executive director Harry Franklin will stop over in the Regina Inn, **Regina**, March 22 to contact alumni keen on organizing a branch there. So if you would like to feel a little closer to your alma mater and perhaps meet a few fellow alumni, why not get in touch with him. The next leg of the jaunt will take him to **Winnipeg**, March 23, to organize an early autumn function with branch president Gary Coopland.

In the east, Franklin will join UBC's new chancellor, Donovan Miller, who is slated as special guest speaker at branch events in **Montreal**, **Ottawa** and **Toronto**, March 24, 25 and 26, during his first official visit to that part of the country. Sharing the spotlight with him in Ottawa will be new UBC president, Douglas T. Kenny.

Closer to home, **Port Alberni** alumni will have an opportunity to hear Margaret Fulton, UBC's dean of women, speak June 7 in a program co-sponsored by the Port Alberni University Women's Club.

Official Notice

Notice is hereby given that the **Annual Meeting** of the UBC Alumni Association will be held at the hour of 8:00 p.m. on **Monday, May 31, 1976** at Cecil Green Park, 6251 Cecil Green Park Road, Vancouver.

For further information call the Alumni Office, 228-3313

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Moving Out From the Centre

For years there have been mutterings—muffled and otherwise—that the Interior of B.C. was feeling a little academically neglected by its universities. But no more. Both UBC and Simon Fraser University have changed their campus/Lower Mainland ways and moved into the Interior.

Simon Fraser is offering academic credit courses in Kelowna. Degree completion in psychology and biological sciences is now possible through off-campus study.

UBC is taking a different approach in meeting local requests for sophisticated non-credit learning programs, short courses, lectures and seminars by bringing in UBC faculty to complement community resources and fill local needs. UBC's Centre for Continuing Education, which is responsible for the new outreach programs, has appointed John Edwards as resident coordinator of Interior programs. While he will be located on the Vernon campus of Okanagan Community College his "territory" will include the areas served by Cariboo Community College in Kamloops, Selkirk Community College in the West Kootenays, as well as the Okanagan Valley. The regional colleges have indicated enthusiastic support for this new UBC initiative. Alumni with ideas, thoughts or suggestions on the program can contact Edwards in Vernon at 542-2203.

The program, which officially began in January, has already arranged several visits by UBC faculty to the Okanagan centers. The visits are usually planned to allow local college faculty time to discuss research and academic interests with the visitors, who also participate in a college sponsored community education program or a non-credit educational program sponsored by the Centre for Continuing Education.

Be a Friend to a Plant Or a Whole Garden

UBC's Garden is growing and so is the number of its Friends.

The campus based botanical garden has been rapidly expanding its educational and informational activities throughout the past year. One of the newest areas of expansion has been through the volunteer group, the Friends of the UBC Botanical Garden.

While the group is still relatively small in number, it has held two meetings so far this year and is planning its future activities around the special interests of the members. The botanical garden, which will open its alpine garden this summer on the south campus site, hopes to develop a docent training program through the "Friends". David Tarrant, educational coordinator of the UBC Botanical Garden and author of *High Rise Horticulture: A Guide to Gardening in Small Spaces*, is working closely with the group. New members are most welcome. Botanical expertise is not a prerequisite to membership, but an enthusiasm for plants is. Green and purple thumbs optional. For more information call the alumni office, 228-3313.

Dr. Roy Rodgers, new director of the school of home economics was guest speaker at a home economics division seminar. (Top) He chats with Nadine Johnson, BHE'65, division representative. Helen McCrae MSW'49, (below, right) greeted two of the student guests at a Cecil Green Park reception honoring the winners of alumni scholarships and bursaries.

Ken Mayer

Mark Kaarremaa

We're Collecting Memories of Fairview

Memorabilia: Such are the things of which archives are made....

The alumni Fairview committee, in co-operation with the UBC library is looking for contributions to the university's archives of mementos, written or otherwise from the university's Fairview years before the move to Point Grey in 1925. Anyone with memorabilia for the collection or questions about the archives project should contact the university archivist, Laurenda Daniells, special collections division, The Library, UBC, 2075 Wesbrook Mall, Vancouver V6T 1W5 (228-2521). That box of memories in your attic may be just what they are looking for.

New Life for An Old Donkey

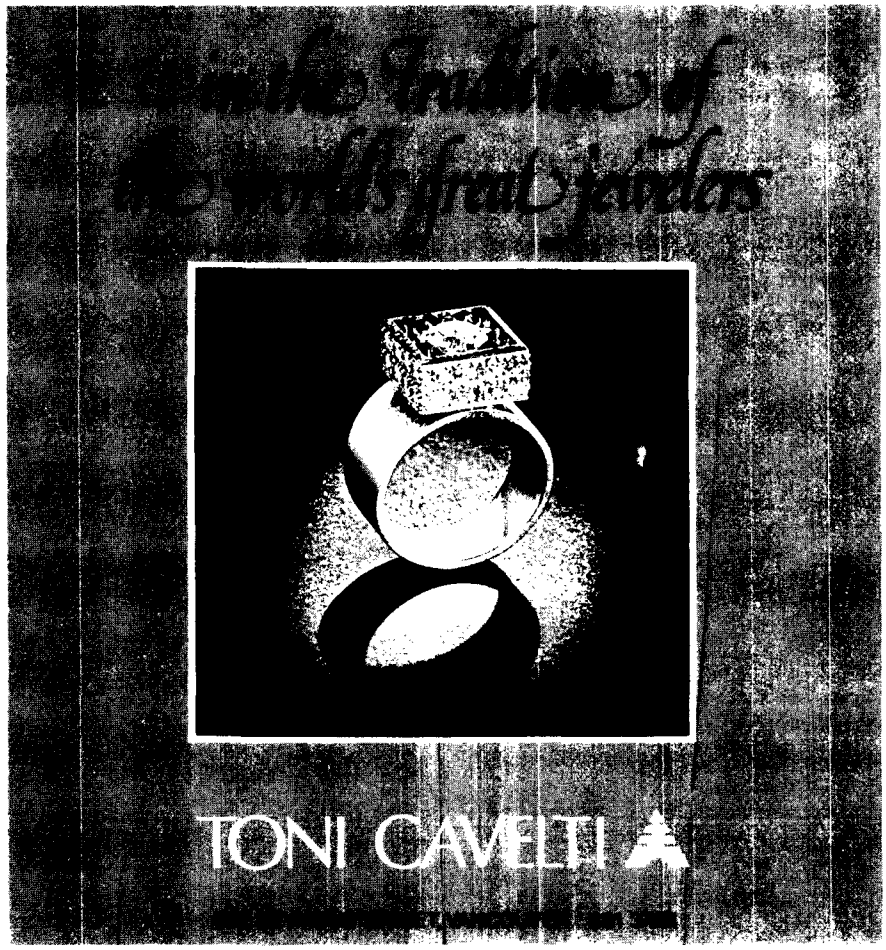
An old steam donkey has a new lease on life thanks to the 1975 forestry graduating class — and the forestry alumni.

The rusting remains of the 1912 stationary steam engine were found by some of the students in May, 1974 during a timber cruise on the slopes of Pitt Lake. The engine, a forerunner of today's logging equipment had been used until the 1930s and then abandoned. Aside from a few lost brass fittings, the engine was in remarkably good condition and the students decided its restoration would make a good class project.

Then there was merely the matter of transporting the pieces of the 30,000 pound engine from deep in roadless forest to the chosen site, the entrance to the university's Haney research forest, over six air-miles away. A helicopter was arranged and an airlift took place in April, 1975. Now out of the woods, the restoration work began in earnest, sandblasting, painting, replacing missing parts. It proved impossible to return the engine to working order, but visually it's perfect.

The total cost of the project was $3,500, much of which was donated by the forestry alumni. "We couldn't have done it without their help," said Richard Cain, BSF'75, who chaired the project. At the present time the students are building a permanent display covering the history of their project, which they hope may prove to be the beginning of a forestry museum at the university research forest.

That old donkey may have run out of steam but it's still working as a reminder of the early days of B.C.'s forest industry. □



SPOTLIGHT

The Members From UBC

The tide turned swiftly in the B.C. provincial election last December 11, returning the Social Credit party to power with 35 of a possible 55 seats in the legislature. This time around, it seems 17 UBC graduates will be able to stake claims to seats in Victoria's parliament buildings.

Seven members of the new government are UBC alumni, five of whom are members of Bill Bennett's cabinet. They are **Jack Davis**, BASc'39,North Vancouver-Seymour, minister of transportation and communications, responsible for energy and a director of BC Hydro; **Patrick McGeer**, BA'48, MD'58, Vancouver-Point Grey, minister of education, responsible for ICBC; **Garde B. Gardom**, BA'49, LLB'49, Vancouver-Point Grey, attorney-general; **L. Allan Williams**, LLB'50, West Vancouver-Howe Sound, minister of labor, responsible for Indian affairs; **Kenneth Rafe Mair**, LLB'56, Kamloops, minister of consumer services; **Walter K. Davidson**, BA'62, Delta; and **Sam R. Bawlf**, BA'67, Victoria.

Of 18 NDP members elected, nine are UBC graduates. They are: **Alex B. Macdonald**, BA'39, Vancouver East; **David Stupich**, BSA'49, Nanaimo; **Robert A. Williams**, BA'56, MSc'58, Vancouver East; **Karen Peterson Sanford**, BPE'56, Comox; **Emery O. Barnes**, BSW'62, Vancouver Center; **Rosemary Brown**, BSW'62, MSW'67, Vancouver-Burrard; **Gary V. Lauk**, BA'63, LLB'66, Vancouver Center; **Lorne J. Nicolson**, BEd'63, Nelson-Creston, and **Robert E. Skelly**, BA'68, Alberni.

In addition, the leader and sole member of the Liberal party in the legislature is a UBC alumnus, **Gordon F. Gibson**, BA'59, North Vancouver-Capilano.

20s

Dorothy Blakey Smith, BA'21, MA'22, (MA, Toronto), (PhD, London), has grown quite accustomed to the ghost of John Sebastian Helmcken who has shadowed her life for the past several years as she edited the new UBC Press book *Reminiscences of Doctor John Sebastian Helmcken*. Helmcken's life spanned Victorian London to the entry of B.C. into Canada. A reception in the B.C. legislature honoring publication of the book, marked the first time that all three of B.C.'s provincial archivists had been together in the same place at the same time: **W. Kaye Lamb**, BA'27, MA'30, LL.D'48, archivist from 1934-40, wrote the introduction to the book; his successor **Willard Ireland**, BA'33, was archivist from 1940-74; and the incumbent, Allan Turner....For years of work attempting to raise the status of women, **Alice Weaver Hemming**, BA'28, was awarded an OBE in London last year.

Ken Mayer

John Chislett and Sean McEwen

Many know it as the carnival site of the Green Peace bon voyage affair, or as a rather lonesome, windswept corner near Spanish Banks. And, it must be admitted, it occasionally looks like a drenched, half — hearted collection of scruffy old military hangars.

The good and the bad of Jericho Beach have been closely scrutinized and an imaginative design dreamed up which will present Habitat Forum to the world in May as a new package constructed of old materials. Sean McEwen, BA'71, BArch'74 *(right)* and John Chislett, BArch'70, are part of the four-man design team working on the transformation.

Habitat proper is the United Nations Conference on Human Settlement which is taking place in downtown Vancouver, May 31 to June 11. The idea for Habitat Forum evolved from the experiences of previous U.N. conferences which saw the influx of thousands of non-official delegates, with a burning interest in the issues involved. The U.N. Secretariat decided that in Vancouver these people should have a platform from which to present their views.

Sean, a recent graduate who worked about town learning the trade and travelling a bit before turning up at Jericho, describes the overall idea as a shoestring revamping of the existing buildings, using materials that reflect the west coast of B.C., into something which will be an impressive attraction for the two weeks of the conference. "It is an overall program theme that the materials will be things which are recycled," he said.

Visitors will be drawn in at the entrance past a totem pole and through something which will remind older Vancouverites of the old lumberman's arch that used to be down in Stanley Park — a kind of rough cut timber parthenon. Timber palisades and timber boardwalks linking the main buildings will reinforce the historic Vancouver atmosphere. Combining with the beauty of the natural wood will be thousands of brilliant banners reflecting west coast themes. The spectacular north shore mountain backdrop is a gratis addition. "Most of the timber is from logs that we have taken out of the ocean," says Sean. "And there is a sawmill set up in one of the hangars here. All the logs and all the timber used on the site is being milled on site as well."

However, one hangar in particular is getting most of the attention. Budgeted at $700,000, it will take shape as a large theatre in the round capable of accommodating about 2,500 people. It consists of a number of levels padded and covered with fabric. The lower levels, made of plywood modules, come out and stack under the others to provide a large floor. Plenary sessions, key note addresses and films will vie for attention here. In addition the Vancouver Symphony Orchestra plans a performance in the theatre June 2.

Before Habitat Forum, John Chislett spent a few years on the west coast of Vancouver Island, where he has a boat and some property, and worked out his "B.C. is beautiful fantasy." Before that he was an urban planner in Vancouver. In describing the design of the theatre hangar he says, "I think one of the concepts this is striving for is to create conversation within an audience whereas in a normal theatre audience, the focus is all in one direction. So we've got lots of little areas to upstage the main performance."

Because of the tight budget for the Forum, and the fast approaching deadline, volunteer help and materials are being sought everywhere. Six truckloads of lumber have been donated by the Cariboo Lumbermen's Association, but a lot more materials are needed. "For instance right now the matter of carpeting — we have the underfelt but we can't come up with the surface material. Matching up carpet ends just doesn't do," says John.

The forum could also use money for artists. "There are an awful lot of talented people floating around that we would love to use and who would really like to get involved, but there just isn't the money or the channels for them to get the funds. And they're not asking a lot. The people here are getting paid about half of what they could get elsewhere," says John.

Both hope that once the conference is over, the theatre will be thrown open to some of the Vancouver groups eager for theatre space.

–Barbara Smith

30s

Widely-travelled United Church missionary **Katharine B. Hockin**, BA'31, (MA, EdD, Columbia), was one of four outstanding Canadian women given honorary degrees by Mount Allison University at its fall convocation. Currently acting director of the Institute of Ecumenical Studies in Toronto, she was honored for her leadership in the church....Another celebration has attracted the able organizational abilities of deputy provincial secretary **Lawrence J. Wallace**, BA'38, (MEd, Wash.), key figure behind B.C.'s centennial celebrations. This time it's Victoria High School's centennial, 1876 - 1976. Former students and staff are urged to register now for the early May homecoming, P.O. Box 1976, Victoria, B.C.

40s

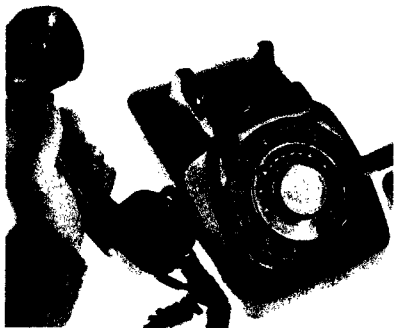
The Canadian High Commissioner to Guyana, **Ormand W. Dier**, BA'41, has been accredited as non-resident ambassador to newly-independent Surinam (formerly a Dutch colony in South America). Dier served as Canada's senior representative to the International Control Commission in Vietnam and has held posts in Colombia and Equador, Finland, Denmark, Mexico and Venezuela....The well-liked and admired assistant general secretary of the B.C. Teachers' Federation, **Stan Evans**, BA'41, BEd'44, who was president of the UBC Alumni Association in 1968-69, is retiring after 31 eventful years which saw the establishment of a teachers' pension plan, compulsory arbitration, salary scales, a medical plan, a credit union and co-operative....Back into the fray is **Robert W. Bonner**, BA'42, LLB'48, who has been appointed to head B.C. Hydro. A long time member of the B.C. legislature and cabinet minister in the W.A.C. Bennett regime, he left his post as attorney-general to join MacMillan Bloedel where he succeeded **Jack V. Clyne**, BA'23 as chief executive officer and chaired the board of directors. He resigned from MacBlo in 1974 to resume his law practice....Five months after he suddenly resigned from the federal Liberal cabinet as finance minister, **the Hon. John N. Turner**, BA'49, (BA, BCL, MA, Oxford), has resigned from parliament. He will resume practising law in Toronto as a partner with McMillan, Binch.

50s

What began as a hobby for **John C. Holme**, BASc'50, (MA, Illinois Institute of Technology), research department manager for RCA Whirlpool, Benton Harbor, Michigan, now occupies an important part of his time. He recently held an exhibition of sculpture and photography at the St. Joseph Art Centre in Michigan and several of his works have been purchased by the University of Michigan and St. Joseph's library....A whole new set of problems will be facing the new president of the Council of Forest Industries (C.O.F.I.), **Donald A.S. Lanskail**, BA'50, a West Vancouver alderman and former president of Forest Industrial Relations and the Pulp and Paper Industrial Relations Bureau. He is taking over from **Gordon Cecil Draeseke**, BA'36, who was president for more than seven years....Recently appointed Queen's Counsel by the federal government are two B.C. lawyers, **John McAlpine**, BA'50, (LLB, Harvard), a part-time member of the Canadian Law Reform Commission from 1971-74 and **Stephen J.E. Hardinge**, LLB'51, director of the Vancouver office of the federal justice department....Who owns the seabed under the Strait of Georgia, B.C. or the Canadian government? B.C. hopes it does and **George Stewart Cumming**, BA'50, LLB'51, is leading its fight in the B.C. Court of Appeal. At stake is a wealth of potential mineral rights which lie under those waters and the question of seabed ownership in Canada's other coastal provinces....**Ralph W. Robbins**, BSF'51, has been appointed assistant chief forester in charge of operations for the B.C. Forest Service....From Middle East oil-rich deserts to the Tacoma tideflats, **James Bunting Twaddle**, BASc'51, will now apply himself to managing the construction of huge oil equipment modules for use in Alaska's Prudhoe Bay. He must have 100 of them completed for next summer's barging.

The Wooden People, which won for **Myra Green Paperny**, BA'53, (MSc, Columbia), the 1974-75 Little, Brown Canadian Children's Book Award for the best Canadian juvenile manuscript, will be published this fall. She taught creative writing at the University of Calgary for several years.

Guest lecturer at the National Institute of



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Neurology in Mexico City last fall was **Margaret M. Maier Hoehn**, MD'54, assistant professor of neurology at the University of Colorado school of medicine....Former UBC Alumni Association executive director and proprietor of a home and building center in Squamish, **Jack Kenneth Stathers**, BA'55, MA'58, has been appointed by the government as a member of Capilano College Council....A new book on A.M. Klein by **Gretl Kraus Fischer**, BA'56, (MA, Carleton), (PhD, McGill), has been released.... **William Wallace**, BA'56, formerly of CFB Chilliwack, has been posted to NATO Defence College in Rome, Italy....Newly elected director in Canada of the National Association of Surety Bond Producers is **M. Havelock Rolfe**, BCom'57....A former president of the UBC Alumni Association who has dazzled many a hesitant *Chronicle* squasher with his prowess on the courts, **George L. Morfitt**, BCom'58, has been elected president of the Canadian Squash Racquets Association, the first president in the 63-year history of the C.S.R.A. to come from outside Ontario/Quebec. He is at present B.C. veterans tennis doubles champion, B.C. racquetball champion and is a two-time Pacific Coast squash champion, at present ranked 10th in Canada....Although the move is only 100 miles, at least it's west and in the right direction, says **Marnie Keith-Murray Tufts**, BPE'58, (BEd, Queens), who is leaving her job as coordinator of special education at Bayside secondary school in Trenton, Ontario, to become provincial youth director of the Ontario division of the Canadian Red Cross in Toronto.

Myra Paperny

60s

Former Vancouver Sun business columnist **Pat Dickson Carney**, BA'60, has been appointed assistant director-general of information to the Canadian Habitat Secretariat, replacing **Charles Melville Bayley**, BA'35, (MA, McGill), former communications head for Vancouver schools, who resigned....Research biologist **T. Gordon Halsey**, BA'61, MSc'65, will adminster licensing and inspection of fish processing and shellfish harvesting in B.C., as the new director of the marine resources branch of the department of recreation and conservation.... The editor of the

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international journal, *Forest Ecology and Management*, and former head of forestry at the University of Ibadan, Nigeria, **Laurence Roche**, MF'62, PhD'68, will head the forestry and wood science department at the University College of North Wales, Bangor.

Operating something of an "unincorporated partnership," **J. Lannie Beckman**, BA'64, **Richard D.Gordon**, BA'68, **Stephen E. Garrod**, BA'69, and **Barbara E. Coward**, BA'70, with the help of a Canada Council grant, are aiming to publish about seven books this year, most of which are political in nature. Their New Star venture evolved from the *Georgia Straight* writing supplement, via *The Grape* in 1971, then the Vancouver Community Press in 1972....Returning to western Canada after several years in Quebec, **J.E. (Jed) Dagenais**, BSc'65, will work as manager of mines with Calgary Power....Associate editor for an interesting new large circulation monthly magazine with news and features exclusively for and about British Columbians, will be **Keith Lyall Bradbury**, BA'66, LLB'69, currently senior editor of B.C. Television news hour, *Canada's WestWord*, which will be published in Vancouver by management consultant **Robert Dow Leighton**, BA'63, will debut in April and should have a circulation of about 268,000 through daily and weekly newspapers. Editor will be former *UBC Alumni Chronicle* editor, freelancer **Clive D. Cocking**, BA'62. Contributors will include **Pat Dickson Carney**, BA'60, assistant director-general of information at Habitat, **Barry Broadfoot**, author of *Ten Lost Years* and Vancouver Sun reporter **Hall Leiren**.

Gary Yip

70s

Now a senior geologist of Kilembe Mines in Uganda is **David P.M. Hadoto**, BSc'70 ....**Gary Yip**, BCom'70, has been appointed manager of real estate investment with Great-West Life...."You do not know how difficult it is to peel pineapples while ducking rifle bullets and grenades from local 'volunteers'," is the reaction of **Gordon Ellis**, BSc'72, MBA'74, past president of the alumni association's Young Alumni Club, to Indonesian Timor. He is there on a two-year C.I.D.A. water resource development study and will eventually be stationed in Kupang, the capital....The political blood in the veins of **J. Peter Pickersgill**, BArch'72, is flowing right out the end of his pen. The son of Jack Pickersgill, former Liberal cabinet minister in the St. Laurent and Pearson administrations, is the first television editorial cartoonist in North America, creator of the Global Television News Pic of Pick feature. He has worked as a freelance cartoonist ever since graduation....New assistant branch manager of a Campbell River consulting engineering firm is **Curt Snook**, BASc'72.

WEDDINGS

Munton—Jacobs. Donald Munton, BA'67, MA'69, (PhD, Ohio State), to M. Ann Jacobs, BA'70, (MA, York), June, 1975 in Vancouver.

BIRTHS

Mr. and Mrs. Carmen F.J. Beuhler, BA'66, LLB'69, a daughter, Sara Patterson, November 28, 1975 in Vancouver....**Mr. and Mrs. Wesley Hutchinson Cook**, BCom'48, a son, Wesley Hutchinson, December 20, 1975 in San Juan, Puerto Rico....**Mr. and Mrs. Peter Hoffman**, (Barbara Ann Geddes, BA'60), a son, Christopher Allan, January 20, 1976 in Ottawa....**Mr. and Mrs. Ken Thomas**, BCom'67, LLB'68, (Karin Sofia Abermeth, BEd'66), a son, Jasper Albert Dylan, October 30, 1975 in Vancou-

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ver....**Mr. and Mrs. Peter Barrett Whaites**, BEd'64, (Donalda Kemp, BEd'71), a daughter Laurie Kim, October 21, 1975 in Langley.

DEATHS

Harvey Reginald MacMillan, (BSA, Ontario Agricultural College), (MA, Yale), DSc'37, February 9, 1976 in Vancouver. A man best known to UBC as benefactor and philanthropist, he was also in his lifetime a scholar, civil servant, forester and industrialist. He was involved in shipbuilding and fish canning and marketing. In 1929 he donated an annual scholarship of $1,000 plus an oriental study trip to UBC; at age 70 he gave a half million dollars to the Vancouver Foundation to be directed to forestry, fish biology and conservation work at UBC; in 1962 UBC was one of the principal beneficiaries of the $2 million H.R. MacMillan Family Fund for education and welfare; at age 80 he donated $8,200,000 to post-graduate studies at the university, one of the largest private donations ever made to a Canadian university. His generosity extended far beyond the campus, however. The famous Cathedral Grove near Port Alberni was a gift to the people of B.C. from Mr. MacMillan as was the $1.5 million planetarium opened in Vanier Park in Vancouver in 1969. He is survived by two daughters, nine grandchildren including John MacMillian Lecky, BA'61, and Mrs. Andrew Wallace (Rosalind Lecky), BA'71, and eight great grandchildren.

James Tackaberry McCay, BASc'43, January 22, 1976 in Montreal. A Canadian author and management consultant, he worked for a time in the Persian Gulf on refinery construction and later established a heating equipment manufacturing firm in Canada. His books include *The Management of Time* and *Beyond Motivation*. He is survived by his wife, son, daughter and sister.

John William Rathjen, BA'69, October 31, 1975 at Alkali Lake. Principal of the Alkaili Lake school, he drowned in Alkali Lake attempting to rescue another man. He is survived by his father.

Olive E. Sadler, BA'19, MA'21, (MDCM, McGill), September 12, 1975 in West Vancouver. She worked in therapeutic radiology, initiated a cancer department at the Royal Columbian Hospital, New Westminster, was physician to the Vancouver General Hospital school of nursing, held an appointment with the B.C. Cancer Institute and certification of the Royal College of Physicians and Surgeons of Canada in therapeutic radiology. On retiring she established first aid stations on the Gulf island on which she lived and was the sole doctor on call on that island. □

COMMENT

On Remembering Shrum at 80

Greetings arrived from near and far for Gordon Shrum's 80th birthday in January. The following was contributed by Andrew W. Snaddon, BA'43, through the pages of the Edmonton Journal, *of which he is the editor.*

To me he shall always be known as "The Colonel." When war came to the campus at the University of British Columbia it arrived in the full voice of Col. Shrum and the Canadian Officers Training Corps.

We did not join the COTC; it joined us, and the lovely Saturday afternoons of drinking lots 'n lots of healthy beer in the cool basement of the Georgia Hotel were replaced with invigorating hikes.

We had no uniforms and no weapons to train with, so the good Colonel taught us the difference between left and right, if not right and wrong, on scenic tours, rain or shine, around Point Grey. His commands drowned out the Point Atkinson foghorn some miles away.

By the way, in the war before the Hitler do, he won the Military Medal.

I recall he was also head of the department of physics, the department of extension and served on the National Research Council. I forget what he did with his spare time.

When the war ended, he had a major role in preparing the campus for the onslaught of returning soldiers which, overnight, probably quadrupled the enrolment.

Not surprisingly, Ottawa moved glacially, with great bureaucratic thoroughness. The need of some buildings from a military encampment was great in September as classes began. The slow-grinding government digestion finally burped out an OK to move the buildings.

The word was phoned to Col. Shrum. "Good thing," was his laconic reply. "Moved 'em two weeks ago. They are being lived in."

It was inevitable that some people would call a mover and shaker a dictator. I can only recall that once being hauled before him (fearsome experience), I had a case, stated it, and won my point. He wasn't the kind of man to hold up a war or a building by agonizing over details, but he was fair.

In later years, people admired his executive ability. It never surprised me. Once I was given a job to do which ran into problems. "Do it," snapped Shrum, and, by God, I did.

So 15 years ago he got around to retiring from UBC and W. A. C. Bennett, then premier, called on Dr. Shrum to head the B.C. Hydro.

Some of us in Alberta may have reservations about the Peace River dam. No doubt in current times we would have had public hearings, committees to examine and report and all sorts of things. Maybe some faults would have been averted; on the other hand would lower mainland B.C. have the cheaper power it needs? The Colonel got her done.

One thing I wish I'd seen was described to me by a project engineer. Some buses, bearing business and political leaders to the dam site, got bogged down one day in the muddy road. The Colonel ordered the VIPs about like sheep (or the COTC), dispatching some for tractor aid, and others to do various chores.

In no time the vehicles were rolling, although some of the big ego passengers were muttering, "Who the hell does he think he is?" They muttered but they did as they were told.

Another time, charged with using a defoliant which was a public danger, he drank a glass of it and was undefoliated: next question.

In 1963 the premier called him again and in effect said "Build us a university" (he was still running the waterworks). Thus he became instant chancellor, president, senate, board of governors, faculty et al of Simon Fraser University.

"Those were the golden days of decision-making," he recalls with relish.

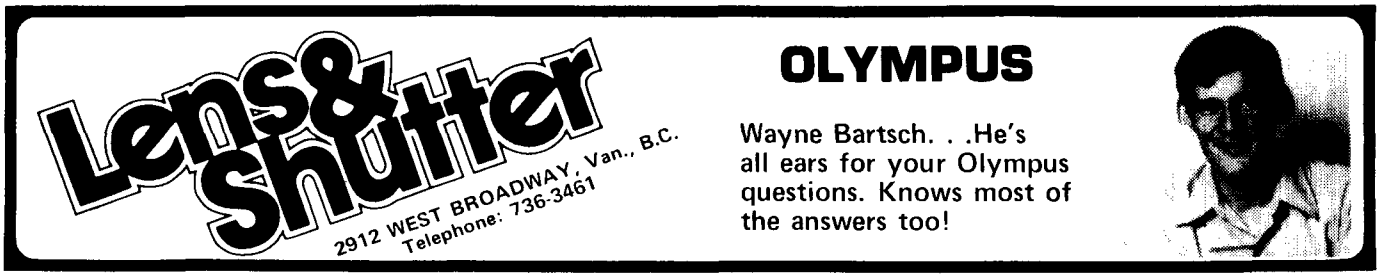
When he was a broth of a lad of 75, he was charged with assault by a 19-year-old who had been doing some heckling at a meeting Dr. Shrum attended. The Colonel was acquitted. I always had the feeling that if he had assaulted anyone it would not have required a court case. An inquest, maybe.

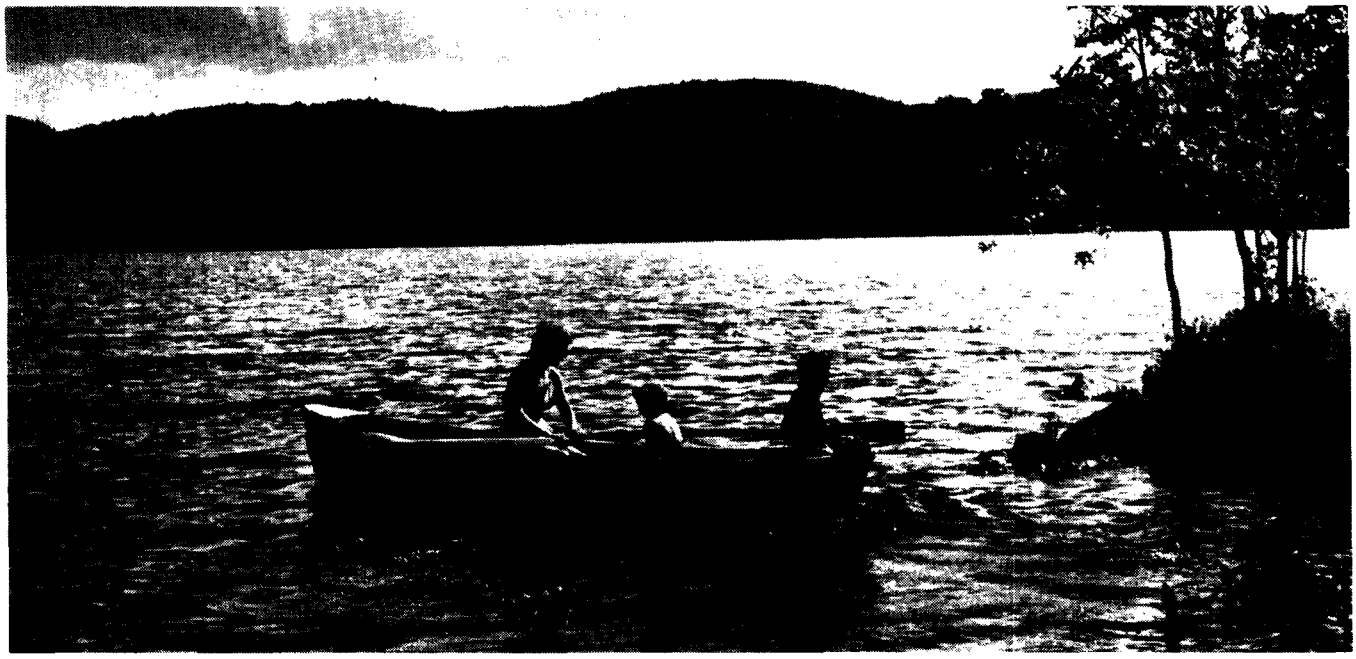
When the NDP government came into power in B.C., Gordon Shrum got the goodbye as chairman of the Hydro. He is not exactly an admirer of socialism.

He came to Edmonton a couple of years ago. There was a plane strike so he took a train. There was a washout and the train got in at dinner time. He rushed to the Saturday night meeting he was to speak to, stayed late, caught a bit of sleep and bussed back to Vancouver for an early Monday morning meeting.

Now he's curator for a museum. "I'd rather be an artifact than a statistic," is his view.

I suspect we'll have a chance to salute him on his 100th birthday. If he will help us get our wheelchairs in. □





How much energy do we need to enjoy life?

WE DRIVE big cars, use throw-away products, flick on heating and air conditioning switches with thoughtless abandon. We're on an energy binge and shortages are inevitable if we don't cut back on our growing consumption.

That's one argument for conservation. There are others: soaring capital costs, environmental impact, social distortion...

THE SIMPLE TRUTH is that we cannot live in the future as we have in the past. If we continue to gobble up energy at recent rates of increase, we'll need twice as much of it in just 12 years. *We won't have it!*

In terms of oil and gas production, our best years appear to be behind us. Most of our readily accessible hydro-electric sites are now in use. Coal deposits are difficult and costly to develop. Other forms of energy – biomass, solar, wind and nuclear for example – will have a role to play, but can't be depended upon to solve all our problems.

Conservation is the only energy option open to us which can work quickly and at low cost.

The goal: a saving of 40% by the year 2000.

A 20% cut in projected consumption by 1985 is a saving equal to 75% of our current oil imports. A 40% reduction by 2000 equals the output of 10,000 conventional oil wells or 55 nuclear stations.

This will not mean drastic changes in lifestyle. It's possible with modest savings in daily living, industry and transportation.

Is all our consumption and convenience really worth the price?

Other countries seem to have found comfortable standards of living without extreme energy consumption. In Sweden, a highly-industrialized country with a climate and living standard like ours, they use *one-third* less energy per person than we do.

France, Germany, Finland, the United Kingdom, Denmark and Italy all use less than half our energy per person.

By saving energy we can not only avoid future shortages but also improve our quality of life.

Efforts to lower consumption – through smaller cars, more mass transit, better built homes, more efficient industry, less waste production, more personal effort – will all save energy. And help our environment. And help to fight inflation. And help to make us more self-reliant and appreciative of simple pleasures.

In short, energy conservation can improve our overall quality of life.

Yes, it will take some effort because we've grown accustomed to waste. But is there any sensible alternative? **If you're not part of the solution, you're part of the problem.**

Get involved with energy conservation.

Keep in touch with developments in the energy field. Find out how you can promote and encourage conservation in your community or through your profession. Add your name to the mailing list for the *Energy Conservation Newsletter*. Free when you send in this coupon.

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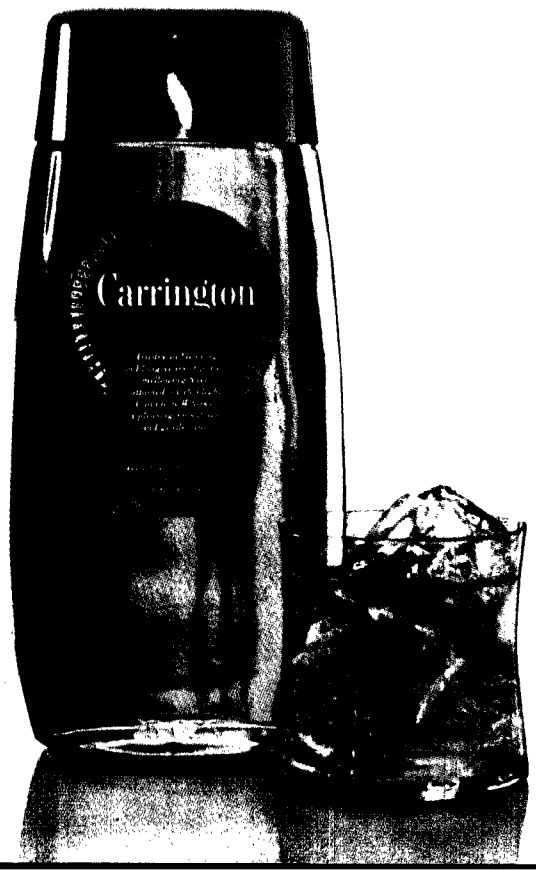
It's kind of nice to stand out.



Which is what Carrington Canadian does. But for many more good reasons than merely the look of the bottle. Carrington is distilled in small batches, aged and mellowed in seasoned oak casks; it's light in look and smooth in taste. Carrington, it's special, and, in our opinion, like no other whisky in the world.

A whisky of outstanding quality.

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