

A view from the community

B.C. Education Minister Pat McGeer has announced that in the coming year, the emphasis in this province will be on technical training aimed at equipping people for jobs, and that education in the liberal arts will be de-emphasized.

So, what else is new? The Socteds under W.A.C. Bennett never did have much use for the kind of education that Thomas Carlyle talked about. Now it looks as if Son, Bill, sets just about as little stock on higher learning as did his father.

The attitude is great stuff for vote-getting in a lotus-land society that measures its progress in terms of cars, boats, swimming pools, trips to Hawaii and elaborate dinners consumed in revolving penthouse restaurants.

But it is a heartbreaking revelation of the lack of real leadership at a time when human beings are faced with trying to understand their role in an age when future shock has very nearly been shifted into the present tense.

One can only sympathize with UBC President, Doug Kenny, who is faced with the task of providing a generation with the best that has been discovered by mankind out of the trials and errors of ten thousand years, yet in a setting controlled by an officialdom that says it is more important to be skilled in operating a computer than it is to know why men go to war.

Technical training provides the means for human progress — higher learning has to provide mankind with the ability to discern the best route to travel.

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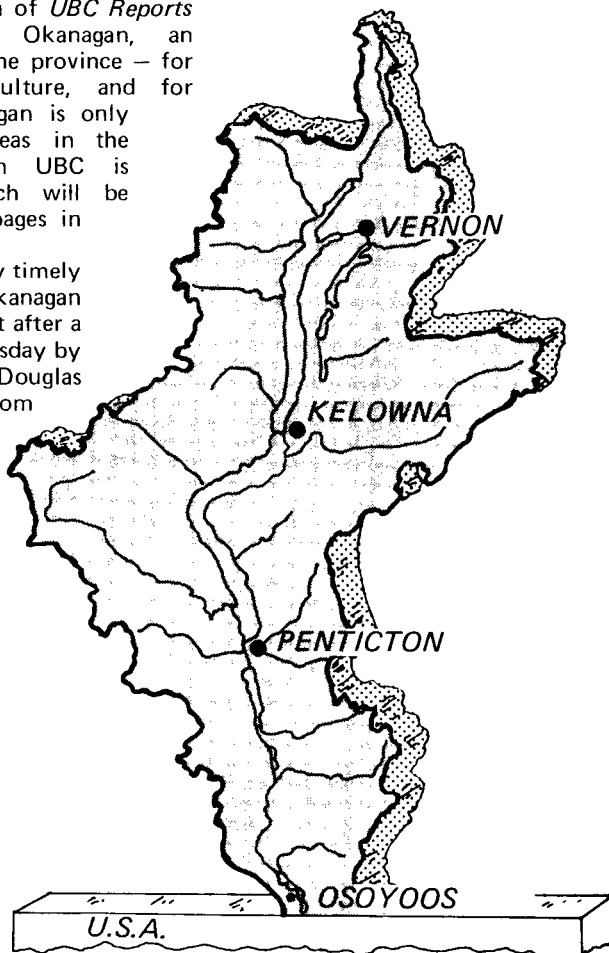
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UBC and the Okanagan

This week's edition of *UBC Reports* focusses on the Okanagan, an important part of the province — for tourism, for agriculture, and for people. The Okanagan is only one of several areas in the province in which UBC is involved and which will be featured in these pages in the coming months.

It seems particularly timely to highlight the Okanagan area this week — just after a visit to Kelowna Tuesday by UBC President Douglas Kenny. Excerpts from Dr. Kenny's speech to the Kelowna Rotary Club are on page 3.



The relationship between UBC and the Okanagan has many sides. There's the fact that last year 876 students came to UBC from homes in the Okanagan. Of those students, 143 registered in Arts, 179 in Science, 162 in Education, 71 in the health sciences — rehabilitation medicine, pharmacy, dentistry, nursing, medicine, and so on. Another 19 were registered in the Faculty of Law, 32 in Forestry, 20 in Agricultural Sciences and several in other faculties. In fact, almost every

discipline has its Okanagan representative.

Then there's the fact that UBC over the years has come to know the Okanagan very well — through research carried out on its soil, its produce, its geography, its water. That research has in many cases had a profound effect on life in the area.

UBC's presence is also felt through its continuing education programs.

But more of that inside . . .

Continuing Education

From agriculture...

A banker in Oliver attends a seminar on new aspects of tax legislation. A newly-elected alderman in Kelowna takes part in a program examining the Municipal Act. A police officer in the Okanagan gets one step closer to his certificate in criminology by taking a psychology course by correspondence.

The common thing to all these people is UBC. People from the Okanagan have been asking for, and getting, opportunities to improve their skills and upgrade their qualifications, or just enjoy learning, for longer than most people can remember.

Extension courses in agriculture have probably been around for longer than the extension department itself, and that's 40 years, says Colleen Bourke, communications director for what is now called the Centre for Continuing Education.

There's a lot more to continuing education programs in the Okanagan now than just agriculture courses, although those are still offered (and well received). In fact, UBC now has one person stationed full-time in Vernon co-ordinating UBC's Interior Program, an open program of non-credit lectures, seminars and short courses by UBC faculty which are scheduled to meet the interests expressed by people in the area.

The Interior Program, begun last January, has arranged more than 20 faculty visits this year on topics from "Protein and the Sea" to "Early Spanish Presence on the West Coast." Nearly 1,000 persons have participated in the program so far, and more seminars are scheduled. Program director John Edwards, who lives in Vernon, expects a 50-per-cent increase in enrolment next year as the program becomes better known.

Another area of continuing education which greatly affects the people of the Okanagan is professional programs. UBC offers a wide range of programs for lawyers, doctors, engineers, nurses, cattlemen — you name it.

The division of continuing legal education in the Centre for Continuing Education last year offered four programs for lawyers in the Okanagan and 153 persons took advantage of them. Another

program is scheduled this fall in Vernon.

Two continuing education courses for engineers were offered in the area last year and about 50 professional engineers attended. Two more seminars are set for Kelowna this fall.

Two seminars in community planning for professional planners were held in Penticton and Kelowna last year and programs for newly-elected local government officials have been held in the Okanagan, as well as other centres throughout the province, for the past eight years, helping to make members of local governments better informed, sooner than might happen through education by trial and error.

For teachers, the education extension division this fall is offering a drama workshop and an education planning seminar in the Okanagan area. For dentists, two seminars on various aspects of their profession are scheduled for Kelowna this year. For pharmacists, more than 30 regional co-ordinators throughout the province have been trained through UBC to pinpoint local needs and set up seminars and courses using UBC resource people.

Continuing medical education has been offered in the Okanagan and the rest of the province for more than 10 years and the programs offered reach within 25 miles of 90 per cent of all B.C. practising physicians. Last year nine seminars were offered in Salmon Arm, Vernon, Kelowna and Penticton with two members of the UBC faculty travelling to those cities to speak on areas of concern to local physicians.

And for people who want to complete their undergraduate degrees or diplomas or just take a credit course for their own interest, there's that old standby, tried and true, the correspondence course. Right now 32 people in the Okanagan are taking courses by correspondence in English, psychology, history and other subjects.

For many Okanagan people UBC is an important part of their lives, probably more important than we down here on the coast realize. As staff, faculty and students, we sometimes forget there's more to this University than meets the eye.

Research

...to

The Okanagan Valley may be 200 or so miles away from Point Grey as the crow flies, but over the years it has been a fruitful area for the research and training activities of UBC faculty members and students. And the benefits of these activities can be seen in the area today.

In recent years the Okanagan has been the scene of projects involving the faculties of Agricultural Sciences, Applied Science, Medicine, Forestry and Science.

Projects, many of them carried out in co-operation with federal and provincial government agencies, cover a wide range of studies, including horticulture, weed control, pollution, water resources, forestry, fisheries and astronomy.

The largest single project involving UBC faculty members and students was a \$234,000 study of the water resources of the Okanagan basin, carried out in the early 1970s under a \$2 million contract let by the federal-provincial Okanagan Basin Study. The UBC contract was a major part of the overall study which resulted in a report suggesting policies for managing the water resources of the basin until the year 2020.

Water pollution research carried out under the contract was directed by Dr.



Irrigating with effluent

William Oldham, of the Department of Civil Engineering. He spray-irrigated 120 acres of land with effluent from

zoology

Vernon's waste treatment plant and found that he could vastly increase the production of alfalfa, a valuable forage crop for cattle.

Vernon is currently building spray-irrigation facilities into its treatment plant as a result of Dr. Oldham's research.

Dr. Oldham says the new method will make the Okanagan an exporter of alfalfa to other parts of the province. Now other Okanagan centres—Kelowna, Penticton and Salmon Arm—are considering installation of similar equipment.

The faculty with the most extensive involvement in Okanagan basin studies over the years is Agricultural Sciences.

Prof. Bert Brink, of the plant science department, is co-operating with federal and provincial government agencies in research designed to rehabilitate depleted grasslands used for grazing cattle. His research is being carried out on 144 test plots near Round Lake and Armstrong in the Okanagan Valley.

Prof. Arthur Renney and Dr. Judith Myers, also members of the plant science department, are involved in a project begun in 1952 for the control of diffuse knapweed, a weed which was introduced into B.C. in the early part of this century in alfalfa seed shipments from Europe. The weed is now controlled by chemical methods recommended by UBC researchers. Current research on control of the weed involves the use of biological methods.

Prof. Brink is also involved in research on tryptamines, a poisonous substance found in some Okanagan forage crops. He plans to grow strains of low-tryptamine forage crops to overcome the problem.

Plant scientist Prof. George Eaton is engaged in a number of projects related to the Okanagan fruit and grape industry.

He's studying internal bark necrosis, a debilitating disorder that reduces apple-tree production, and a problem of Spartan apples related to calcium levels in the fruit.

Prof. Eaton is also carrying out, as funds permit, a mineral nutrient

survey in each of the five main varieties of grapes grown in the Okanagan region.

Three other members of the faculty, animal scientists Dave Shackleton and Ray Peterson and plant scientist Michael Pitt, are cooperating with the fish and wildlife branch of the provincial government in a study of California bighorn sheep in the Okanagan, which is under the direction of UBC graduate Don Eastman. The Okanagan Game Farm in Penticton has made 90 acres of land



available for the study to be carried out over a five-year period.

Dr. John Vanderstoep, of the faculty's food science department, is directing work of a graduate student in co-operation with the federal government's Summerland research station on the testing of growth regulators in peaches to produce more uniform ripening of the fruit. It's also been found that the use of growth regulators can diminish bruising in peaches.

The Okanagan region has also served as a research and training site for students in the Faculty of Medicine.

Medical student Richard Stewart spent four months this summer at Kelowna General Hospital, where he worked under Dr. W. W. Arkinstall on a clinical research project that involved respiratory function in pregnant women. In addition, four UBC medical students spent the summer in Kelowna, Vernon, Salmon Arm and Oliver getting their first practical experience in patient care under the watchful eyes of general practitioners in each city.

President Kenny speaks in Kelowna

KELOWNA— President Douglas Kenny in a speech to the Rotary Club yesterday strongly criticized the Winegard Report on university education in B.C., calling it "simplistic and unrealistic."

In his report Dr. Winegard recommended to Education Minister Patrick McGeer this month that university centres be established in Prince George, Kamloops, Nelson and Kelowna, all under the control of SFU, and each staffed by the equivalent of 10 full-time members of the SFU faculty. He estimated capital costs of about \$8.5 million over a five-year period, with operating costs of about \$7.1 million a year.

The UBC president challenged Dr. Winegard on both costs and concept. He said qualified people had estimated capital costs at a minimum of \$14 million, and he said operating costs could run three times as high as Dr. Winegard's estimate.

"To do the job properly would probably require something like three times the number of faculty Dr. Winegard has proposed," Dr. Kenny said.

The UBC president suggested a three-point alternative to the Winegard Report.

He called for the establishment of university centres, similar to those proposed by Dr. Winegard, but with the difference that each centre be affiliated with a specific university—either UBC, SFU or the University of Victoria.

Dr. Kenny also called for more extensive use of innovative methods of teaching. He cited, as examples, special programs now offered by UBC in the Okanagan through the University's Centre for Continuing Education, independent study courses, or correspondence courses, and teaching via television, supplemented with reading, essays and personal tutorials.

Finally, Dr. Kenny called for a serious look at what he referred to as "distance subsidies," as used in Norway and other parts of the world, including Canada's Yukon. Yukon students at UBC, he said, have access to grants, bursaries and loans from the territorial government totalling as much as \$11,400 over a four-year period.

"These three means, then, are available to us, if we only have the imagination to use them," he said.

NEXT WEEK AT UBC

Notices must reach Information Services, Main Mall North Admin. Bldg., by mail, by 5 p.m. Thursday of week preceding publication of notice.

SUNDAY, OCT. 3

3:00 p.m. **STALEY LECTURE.** Richard Ostling, *Time* magazine, on **Trends in North American Religion: A Newsmen's View.** Room 106, Buchanan Building. A follow-up seminar will be held at 8:30 p.m. Regent College, 2130 Wesbrook Crescent.

MONDAY, OCT. 4

12:30 p.m. **CANCER RESEARCH CENTRE.** Steve Wood, Medical Genetics, UBC, on **Somatic Cell Hybridization.** Library, Cancer Research Centre, Block B, Medical Sciences Building.

ASIAN STUDIES LECTURE. Dr. Sridhara Babu, Berlin, West Germany, on **Mixed Forms of Divinities in Indian Iconography.** Room 314, Buchanan Building.

3:30 p.m. **MANAGEMENT SCIENCE SEMINAR.** J. Kallberg and Prof. W.T. Ziemba, Commerce and Business Administration, UBC, on **Comparison of Alternative Utility Functions in Portfolio Selection Problems.** Room 321, Angus Building.

MECHANICAL ENGINEERING SEMINAR. Dr. George Bluman, Mathematics, UBC, on **Dimensional Analysis and Its Extensions.** Room 1215, Civil Engineering Building.

ASIAN STUDIES SEMINAR. Dr. Sridhara Babu, Berlin, West Germany, on **Indian Gods with Animal Heads.** Room 314, Buchanan Building.

4:00 p.m. **ASTRONOMY AND SPACE SCIENCE SEMINAR.** Dr. R. Roger, Dominion Radio Astrophysical Observatory, Penticton, B.C., on **Neutral Hydrogen in the Region of the Y Cygni Nebula.** Room 318, Hennings Building.

4:30 p.m. **CANCER CONTROL AGENCY.** Guest lecturer Prof. Emil Frei III, Harvard Medical School and director, Sidney Farber Cancer Center, Boston, Mass., on **Improved Therapy with Folic Acid Antagonists and Anthracyclines.** Main Conference Room, Cancer Control Agency, 2656 Heather St.

TUESDAY, OCT. 5

10:30 a.m. **LYMPHOMA CONFERENCE.** Prof. Emil Frei III on **A New Immunological Classification of Acute Lymphocytic Leukemia.** Second Floor, Conference Room, Cancer Control Agency, 2656 Heather St.

12:30 p.m. **BOTANY SEMINAR.** Dr. J. Willenbrink, University of Cologne, on **Aspects of Phloem Transport in the Brown Alga *Laminaria*.** Room 3219, Biological Sciences Building.

3:30 p.m. **OCEANOGRAPHY SEMINAR.** Dr. Friedrich Schott, University of Kiel, West Germany, on **Measurements of Internal Tides at Different Sites in the North Atlantic and Some Conclusions Concerning the Tidal Energy Budget.** Room 1465, west wing, Biological Sciences Building.

4:30 p.m. **REGENT COLLEGE FACULTY SEMINAR.** The first in a series on "The Nineteenth Century and the Making of the Modern Mind." Dr. Ian Rennie on **Discerning the Spirit of Enlightenment.** Regent College, 2130 Wesbrook Crescent.

CHEMISTRY SEMINAR. Dr. L.D. Hayward, Chemistry, UBC, on **Solvent Induced Optical Rotatory Power.** Room 250, Chemistry Building.

7:30 p.m. **BADMINTON CLUB.** New faculty and staff members welcome. Club meets Tuesday and Friday evenings from 7:30 to 11:00 in Gym A, Thunderbird Sports Centre.

8:00 p.m. **CUSO Development Awareness Lecture.** Vivian Wylie on **It's a Mad Mad Mad Mad World.** The first in a series of five lectures on "Conflicts in Development." Rooms 402-404, International House.

BIOMEDICAL ENGINEERING SEMINAR. Dr. Gordon Trueman, radiology department, VGH, on **A Design Competition To Be Sponsored By The Vancouver General Hospital.** Salons B and C, Faculty Club.

WEDNESDAY, OCT. 6

2:00 p.m. **HEALTH CARE AND EPIDEMIOLOGY** Research Seminar Series. Dr. Bob Stimson, Flinders University, Adelaide, Australia, on **Theoretical Explanations of the Distribution of Primary Care Health Services.** Room 146, Mather Building.

3:30 p.m. **CHEMICAL ENGINEERING SEMINAR.** A. Meisen on **Oil Refinery Contribution to Local SO₂ Concentrations.** Room 206, Chemical Engineering Building. **APPLIED MATH AND STATISTICS WORKSHOP.** Prof. J. Michael Steele, Mathematics, UBC, on **The Uses of Combinatorial Geometry in Statistics, or How Turkey Would Like to Peel Grapes.** Room 321, Angus Building.

4:30 p.m. **ANIMAL RESOURCE ECOLOGY SEMINAR.** Dr. H.A. Ford, Adelaide University, Australia, on **Ecology of Australian Honeyeaters.** Room 2449, Biological Sciences Building.

4:45 p.m. **ADMINISTRATIVE AND PROFESSIONAL STAFF MEETING.** Room 100, Scarfe Building.

6:00 p.m. **CANCER CONTROL AGENCY Tumor Biology Study Group.** Dr. D.A. Boyes, Cancer Control Agency, speaks about **Sailing From Hawaii to Vancouver,** and Dr. D. Tidd, Cancer Control Agency, speaks on **Rate-Limiting Step in the Anabolism of 5-Fluorouridine-Fluorouridine.** Second Floor Conference Room, Cancer Control Agency of B.C., 2656 Heather St., Vancouver. \$3.50 admission includes dinner.

THURSDAY, OCT. 7

3:30 p.m. **APPLIED MATH AND STATISTICS COLLOQUIUM.** Prof. Herbert Solomon, Department of Statistics, Stanford University, on **An Argument in Favor of Twelve Member Juries.** Room 2449, Biological Sciences Building.

4:00 p.m. **PHYSICS COLLOQUIUM.** A. E. Curzon, physics department, SFU, on **Recent Developments in Transmission Electron Microscopy.** Room 201, Hennings Building.

4:30 p.m. **ZOOLOGY SEMINAR.** Dr. Anthony M. Perks, Zoology, UBC, on **The Neurohypophysis: From Fish to Man and Back.** Room 2000, Biological Sciences Building.

9:00 p.m. **BEYOND THE MEMORY OF MAN.** UBC's Centre for Continuing Education series. Paul Burns, St. Mark's College, on **The Early Christian Pilgrimages.** Channel 10, Vancouver Cablevision.

10:30 p.m. **UBC PUBLIC AFFAIRS,** presented by the Centre for Continuing Education. Host Gerald Savory of the Centre and Dr. David Elkins, political science department, UBC, on **The U.S. Presidential Elections.** Channel 10, Vancouver Cablevision.

FRIDAY, OCT. 8

9:00 a.m. **PEDIATRICS GRAND ROUNDS.** Dr. Thomas L. Perry, Pharmacology, UBC, on **Pyroglutamic Acidemia: A New Disease of Blood and Brain.** Lecture Hall B, Heather Pavilion, Vancouver General Hospital.

3:30 p.m. **CHEMISTRY SEMINAR.** Prof. A.W. Johnson, F.R.S., The School of Molecular Sciences, University of Sussex, England, on **Porphyrins and Related Ring Systems.** Room 225, Chemistry Building.

FINANCE WORKSHOP. Robert R. Grauer, assistant professor, Economics and Commerce, SFU, on **Generalized Two Parameter Asset Pricing Models: Some Empirical Evidence.** Room 325, Angus Building.

SATURDAY, OCT. 9

8:00 p.m. **DISCO DANCING** in The Pit. Music supplied by CITR radio disk jockeys. Continues until 12:30 a.m. Admission free. Student Union Building.

8:15 p.m. **VANCOUVER INSTITUTE LECTURE.** Prof. Harold E. Edgerton, Massachusetts Institute of Technology, and Green Visiting Professor, on **Use of Electrical Methods for Underwater Discovery - Including the Loch Ness Monster.** Lecture Hall 2, Woodward Instructional Resources Centre.