

UBC REPORTS

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Board decision unanimous

David Strangway appointed president

Dr. David William Strangway, one of Canada's leading geophysicists who has served as both vice-president and president of the University of Toronto, has been appointed the tenth president of the University of British Columbia.

Dr. Strangway, 51, will take up his duties as UBC's chief executive officer in November, 1985.

Announcing the appointment, David McLean, chairman of UBC's Board of Governors, said: "In Dr. Strangway, the Board has found an exceptional individual whose distinguished career reflects extensive experience in the academic, industrial, government and administrative sectors.

"The unanimous decision of the Board to appoint Dr. Strangway reflects its feeling that he brings a deep sense of commitment to this position and that he will provide strong leadership and direction for the University."

The UBC Board appointed Dr. Strangway on Thursday at its regular July meeting on the recommendation of a 23-member advisory committee chaired by Chancellor W. Robert Wyman.

Chancellor Wyman, commenting on the appointment, said that the committee had been deeply impressed with the calibre of the candidates who were considered for the presidency of the University of British Columbia.

"UBC's reputation as one of Canada's leading universities is reflected in the high quality of the candidates whose names were considered by the committee. It was not easy for the committee to reach a decision, but in Dr. Strangway we feel we have found an individual who will offer the educational leadership needed to enhance UBC's reputation for providing an outstanding educational environment," Chancellor Wyman said.

Dr. Strangway said he was looking forward "with enthusiasm" to taking up his duties as president of UBC in November. "I have always considered UBC to be an institution characterized by excellence in all it does and I'm proud that I will be associated with one

of Canada's outstanding universities."

Dr. Strangway served as president of the University of Toronto for one year from September 1983 to September, 1984, following the sudden death of President-elect D.F. Forster.

For three years prior to his appointment as president, Dr. Strangway was Toronto's vice-president and provost, a role in which he served as the University's chief academic officer.

During his time as provost and president, Dr. Strangway was responsible for a number of initiatives related to ensuring that high standards of scholarship and teaching were considered when new appointments or promotions were made. He also developed new policies on teaching evaluation and emphasized the use of periodic departmental reviews to ensure quality and focus attention on problem areas.

Dr. Strangway was committed to wide consultation with the University of Toronto's administrative officers and students, and in spite of financial difficulties, initiated new academic opportunities, including the creation of the Canadian Institute for Theoretical Astrophysics.

A number of University of Toronto units, including the Innovation Foundation and the famed University of Toronto Press were put on a firm financial footing during his presidency. He also

appointed a University officer responsible for women's issues and a presidential advisor on French at the University.

He maintained close liaison with Ontario industrial firms and with governments at the civic and provincial



David Strangway

levels.

A native of Simcoe, Ont., Dr. Strangway is the son of medical missionaries of the United Church of Canada. He attended school in Africa before entering Victoria College of the University of Toronto in 1952.

All his academic degrees—Bachelor and Master of Arts and Doctor of Philosophy—were awarded by the University of Toronto in the period between 1956 and 1960.

Prior to joining the University of Toronto's physics department in 1968, Dr. Strangway served as a senior research geophysicist for a number of major companies, including Dominion Gulf Co., of Toronto, and the Kennecott Copper Corp., in Denver, Colorado.

He entered the academic world in 1961 as an assistant professor of geology at the University of California. In 1965 he joined the faculty of Massachusetts Institute of Technology as an assistant professor of geophysics. Three years later he returned to Canada as an associate professor of physics at Toronto.

As a member of Toronto's physics

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See STRANGWAY

MRC grant awarded for brain research

Canada's Medical Research Council has approved a grant of \$1.1 million to support a University of B.C. research team which is attempting to unravel some of the mysteries surrounding the functioning of the brain.

Over the next three years, the MRC grant will be used by Dr. Tony Phillips of the Department of Psychology and Dr. Chris Fibiger, a neuroscientist in the

Department of Psychiatry, for co-operative research on dopamine and other related brain neurotransmitters, chemical messengers that enable brain cells to "talk" to one another.

The \$1.1 million dollar grant has been awarded as an MRC Program Grant and is part of a recent MRC initiative to provide substantial resources for collaborative research projects between

two or more well-established laboratories. Twenty researchers are associated with the UBC project, the majority as graduate students and post-doctoral fellows.

Dopamine, the neurotransmitter that is the principal object of the researchers' attention, is a chemical substance that permits communication between specific neurons or cells in the brain. There is ample evidence that Parkinson's disease and certain other movement disorders are related to the degeneration of dopamine neurons in the brain and this neurotransmitter has also been implicated in psychiatric disorders such as depression, mania and schizophrenia.

Drs. Fibiger and Phillips believe that dopaminergic activity is essential for the initiation of motor responses and they hope to provide a detailed account of the stimuli and events that trigger this system into action.

The research has immediate relevance for understanding human movement disorders as well as addressing the basic philosophical question of how thought is translated into action.

The scientists also emphasize the close link between the brain systems that mediate movement on the one hand, and emotional experience on the other.



Dr. Tony Phillips, left, of psychology and Dr. Chris Fibiger of neurological sciences have been awarded a \$1.1 million grant by the Medical Research Council for brain research.

Man-in-Motion Tour

Update: July 10, 1985. Rick Hansen has travelled 4,730 miles on his round-the-world wheelchair tour to raise funds for spinal cord research and rehabilitation, and is currently in Darlington, England. Contributions in B.C. so far total \$337,862. If you'd like to make a donation, call 687-5200.

Strangway

continued from Page 1

department from 1968 to 1970 he was named principal investigator for the study of samples of lunar rocks brought back by the first Apollo space mission.

In 1970 he was invited to join the National Aeronautics and Space Administration (NASA) as a civil servant. As Chief of the Geophysics Branch he became responsible for the geophysical aspects of Apollo missions, which included experiment selection, astronaut training, site selection and mission support. He also became Acting Chief of the Planetary and Earth Sciences Division responsible for all aspects of planetary science in Houston.

In 1973 he returned to the University of Toronto, where he became head of the Department of Geology, a post he held until his appointment as the university's provost and vice-president in 1980.

Throughout the 1970s, he maintained close ties with the scientific community concerned with lunar matters. He was responsible for the development of the Lunar Science Council and served as its first chairman on behalf of the Universities Space Research Association, a consortium of some 70 North American universities.

At the University of Toronto he co-ordinated a proposal for a \$1 million grant from the National Research Council, the largest ever awarded in Canada for the earth sciences. He also played a role in various national and international geoscience groups.

For his scientific achievements, Dr. Strangway has been awarded the NASA Medal for Exceptional Scientific Achievement, the Virgil Kauffman Gold Medal of the Society for Exploration Geophysicists for an outstanding contribution to geophysics and the Logan Medal of the Geological Association of Canada. He has been the recipient of the Senior Izaak Walton Killam Memorial Scholarship, Canada's most prestigious awards in the sciences. He has also been made an honorary member of both the Canadian Society of Exploration Geophysicists and the Society of Exploration Geophysicists.

Dr. Strangway is married to the former Alice Gow and has three children born in 1959, 1961 and 1967.

NMR expert to visit Campus

Dr. Britton Chance, a leading U.S. biophysicist who pioneered the use of nuclear magnetic resonance spectroscopy as a non-invasive diagnostic tool, will speak to Vancouver's medical research community twice on July 16.

He'll give a noon-hour lecture at St. Paul's Hospital and a 3:30 p.m. talk in Lecture Hall 3 of the Woodward Instructional Resources Centre on campus. For lecture titles, see "UBC Calendar" on page 8.

Currently director of the Institute for Structural and Functional Studies at the University of Pennsylvania's University City Science Centre, Dr. Chance was head of that university's Department of Biophysics and Physical Chemistry and director of the E.R. Johnson Research Foundation from 1949 to 1983.

He has received a number of prestigious awards for his research and in 1981 was inducted in Great Britain's Royal Society, an honor rarely granted to scientists outside the United Kingdom.

Further information is available from Prof. Anne Autor, Department of Pathology (684-6040).

Medical telecast "flawless"

"We're engaged in an old Canadian custom right now. We're keeping our fingers crossed."

Those were the words of Vancouver Mayor Michael Harcourt June 27 from Jinan University in Guangzhou, formerly Canton, at the beginning of the first medical satellite telecast between China and North America.

He was speaking to dignitaries and 200 doctors at Jinan University who were linked to the television studios of the University of British Columbia's biomedical communications department.

Ceremonies twinning the two cities preceded a demonstration of two surgical procedures, routinely carried out at the UBC Health Sciences Centre Hospital on campus, but new to China.

The finger-crossing custom, Canadian or otherwise, worked. The telecast was flawless.

Inaugurating the telecast with Mayor Harcourt in Guangzhou was his counterpart, the mayor of Guangzhou, and the president of Jinan University who is also the governor of Guangdong Province.

Mayor Harcourt was in China with a delegation of Vancouver City counsellors, Canadian businessmen and Dr. Wah Leung, former dean of UBC's Faculty of Dentistry, former chairman of the Vancouver Chinese Cultural Centre and chairman of the twinning ceremony.

"A half century ago a Canadian surgeon participated in history by taking his surgical expertise to China," said UBC President *pro tem*. Dr. Robert H.T. Smith, referring to Dr. Norman Bethune, who is regarded as a national hero by the Chinese. "Today," Dr. Smith told his Chinese audience from the UBC television studios, "we are continuing that tradition using communications technology."

He said that UBC has the strongest association with China of all Canadian universities. Virtually every one of UBC's 12 faculties, he said, have teaching or research activities associated with China.

Also participating in the inauguration was UBC Dean of Medicine Dr. William Webber, UBC Health Sciences Centre Hospital Vice-President Sheila Ryan, Knowledge Network chairman Walter Hardwick, and B.C. Telephone Vice-President for Supply, Transportation and Buildings, Mr. R.H. (Bob) Stevens.

The transmission was provided through the services of Telecommunications Services International, a subsidiary of B.C. Telephone, currently active in China.

The telecast was initiated by Mr. Ian Forbes, clinical instructor in health services planning at UBC and managing director of the Vancouver architectural firm of Thompson Berwick Pratt International Ltd.

The surgical procedures were pretaped. The first was removal of a blockage of the carotid artery which supplies blood to the brain. Arteriosclerosis, or hardening of the carotid artery, leads to impaired blood supply, and is a leading cause of stroke.

Demonstrating the procedure was Dr. W.B. Chung, head of the division of general surgery in UBC's Faculty of Medicine and head of surgery at the UBC Health Sciences Centre Hospital. Dr. Chung said the incidence of stroke has been low in China but is increasing because of an increase in animal fat in the national diet and because of smoking.

The second procedure was a new method of knee and shoulder surgery that has been pioneered in Canada at the UBC Health Sciences Centre

Hospital. Dr. Brian Day demonstrated repairs to knee and shoulder joints using two one-centimetre incisions, one for a surgical instrument and the second for a viewing scope used to guide the instrument in its work.

Master of ceremonies for the telecast from UBC was Mr. Alan Lee, a member of the board of directors of the Vancouver Chinese Cultural Centre.

The telecast was the second of two "firsts" for the biomedical communications department during the last two weeks of June.

On June 18 the department carried out an experimental transmission of video from UBC to doctors in Toronto using a new method that "compresses" the video material so that it can be carried over telephone lines rather than using the more expensive satellite system.

The materials transmitted via B.C. Telephone's two-way motion video service were sophisticated x-ray scans of a patient whose condition was already diagnosed at UBC. Purpose of the experiment was to determine whether doctors in Toronto unfamiliar with the case could accurately diagnose it using the "compressed" video signal.

The experiment was a success. This means that x-rays of Interior B.C. patients can be inexpensively evaluated by specialists in Vancouver through the new transmission system.

Dr. Dolphin named associate dean

Dr. David Dolphin of UBC's Department of Chemistry has been named associate dean of the Faculty of Science for one year, effective July 1.

A member of the UBC faculty since 1974, Dr. Dolphin was recently awarded a \$560,000 grant by the U.S. National Institutes of Health for basic research on enzymes, the proteins that accelerate the rate of chemical reactions in the body.

World premiere at Freddy Wood

The world premiere of a new musical based on John Buchan's novel, *The Thirty-nine Steps*, will be the highlight of the 1985-86 season at UBC's Frederic Wood Theatre.

The musical by John Gray, author of *Billy Bishop Goes to War*, will reunite former UBC theatre students in the direction, design and performance of the production, which will be staged April 7—May 3, 1986.

The brochure outlining the theatre's season says the musical is part of the theatre department's contribution both to Expo '86 and the Vancouver centennial.

The regular Freddy Wood season opens Sept. 18 with a production of Tennessee Williams' *The Glass Menagerie*, directed by Stanley Weese. This will be followed by William Congreve's restoration comedy *Love for Love*, which opens Nov. 6. Arne Zaslave will direct.

The first 1986 production will be George Bernard Shaw's *Major Barbara*, directed by Antony Holland. The production opens Jan. 15. Winding up the regular season will be a production of Shakespeare's *As You Like It*, opening March 5. John Brockington will direct.

The theatre department is also planning a season of five plays in the Dorothy Somerset Studio.

For information on season's tickets at the Freddy Wood, call 228-2678.



Some 40 members of UBC's faculty and support staff showed up, many of them in response to a UBC Reports notice that appeared in the issue of June 12, to take part in a June 28 retirement party for Winnifred Bracher, centre in front row, who retired on June 30 after a 35-year teaching and research career as a member of the School of Family and Nutritional Sciences.

Enrolments up for spring and summer

Enrolments for UBC's 12-week Spring Session and six-week Summer Session are expected to be up somewhat this year, according to Dr. Norman Watt, director of the Office of Extra-Sessional Studies, which arranges the two academic sessions.

Final enrolment figures for the two sessions aren't available yet, but Dr. Watt said the 1985 totals are expected to be higher than in 1984, when 3,565 were enrolled in the Spring Session and

3,846 registered for the Summer Session.

Students registered for the Spring Session, which began on May 6 and continues until July 26, had 150 courses to choose from, while Summer Session courses totalled 249. Summer Session continues until Aug. 10.

Some 20 to 25 per cent of the Spring Session students are also enrolled in a Summer Session course, Dr. Watt said.

Energy plan goes "full steam ahead"

The University has signalled "full steam ahead" to an energy conservation plan aimed at reducing UBC's bill for natural gas by between \$500,000 and \$600,000 a year.

The plan, based on recommendations made by Neptune Dynamics Ltd., the University's consulting engineers, involves lowering the steam pressure in the 6.5 miles of mains that serve buildings in the central campus core from Agronomy Road on the south to Northwest Marine Drive on the north.

The chain of events that will save UBC more than half a million dollars annually is simple—lowering steam pressure means less steam will be produced in four large steam boilers in the central campus Power House, which means a lower demand for the natural gas that's used to create the steam.

In addition, lowering steam pressure means less heat loss through the underground pipe system that distributes the steam.

Up to the end of May, steam produced in the Power House went into the mains at 80 pounds per square inch (psi) and a temperature of 300 degrees Fahrenheit. Beginning in June, pressures in steam mains began to fall with the aim of attaining pressures of 15 psi in summer and 35 psi in winter. The temperature of the steam at winter pressure levels will be about 250 degrees Fahrenheit.

Since UBC now spends about \$4 million annually on natural gas to heat campus buildings, it's easy to see why the reduced steam-pressure plan is so attractive.

However, there are some "bottlenecks" in the system that have to be worked out before the plan reaches its full potential.

A bottleneck is any need for high-pressure steam which restricts the lowering of the pressure. For example, UBC's Health Science Centre Hospital needs high-pressure steam for sterilizers and for stills that produce distilled water. At least one other UBC building, the MacMillan Building housing the Faculties of Forestry and Agricultural Sciences, requires high pressure steam for experiments.

The solution in the case of the campus hospital is to install two small boilers in the hospital to handle its high-pressure needs and to continue to supply low-pressure steam for heating.

Dennis Haller, head of the design and construction division of the Department of Physical Plant, which is responsible for implementing the plan, said pressures might have to be increased somewhat at certain times of the year because there might not be any heat left in the steam by the time it reaches the far end of the system.

Part of the pressure-reduction plan is to install sensors at the extremities of the system which will tell Power House staff when and if pressures need to be raised.

Metallurgy technology developed

A major expansion of the University of British Columbia's strength in metallurgical engineering is now under way.

More than \$1.5 million in research support is being provided by government and industry to help the University solve technological problems faced by the metal-producing industry.

Three significant moves will advance metallurgical engineering at UBC, already internationally recognized.

- A Centre for Metallurgical Process Engineering has been created and UBC's Dr. Keith Brimacombe has been appointed its first director.

- An industrial research professorship program has been established at the centre by the Natural Sciences and Engineering Research Council of Canada (NSERC) and Stelco Inc., Canada's largest steel maker. NSERC and Stelco will provide a total of \$183,000 a year for five years to support three faculty members in the centre. The five-year total is \$915,000.

- NSERC and a group of Canadian metal companies are funding the centre's first research project—to design, build and operate a pilot plant for a new type of smelting process that Canadian lead and other smelting companies will soon adopt to up-grade their technology. The grant is for \$635,000 over three years.

Dr. Brimacombe said the centre will act as an administrative umbrella for the various departments on campus already doing metallurgical process engineering.

"Metallurgical process engineering isn't new to UBC. It goes back to the pioneering research done by Frank Forward at UBC in the 1940s and 50s," Dr. Brimacombe said. "His development of a new method of extracting nickel led to the formation of Sherritt Gordon, a major Canadian corporation."

He said that the University currently

has joint projects with Stelco, Cominco, Noranda, Brunswick Smelting, INCO, Hatch Associates, ACO Industries, Western Canada Steel, Consarc and Cameron Iron Works. The current amount of metallurgical process engineering done at UBC for industry and government is about \$1 million a year.

"But we fully expect to be doing more than \$2 million a year through the centre within two years," he added.

He said one indication of the international ability of UBC in the field are annual visits to the University by students from Japanese steel companies, some of the most advanced steel makers in the world. UBC also sponsors seminars which draw scientists and



Keith Brimacombe

researchers from all over North America who are attracted by the problem-solving abilities of UBC scientists.

The first research project under way at the centre involves "flash smelting," a new process that is a dramatic improvement over traditional methods.

"The lead industry is faced with an urgent need to modernize obsolete technology," Dr. Brimacombe said. "The most attractive metallurgy available to them at the moment is flash smelting. The only major research on the flash smelting of lead concentrate has been done in Russia and Finland. No full-size plant has been built yet. So it's very likely that Canadian lead producers will be faced with building the first flash smelter facility in the world and will encounter the inevitable start-up problems of working bugs out of the system."

He said flash smelting is much more economical than conventional methods and is industrially more hygienic. It eliminates the need for expensive coke, concentrates all reactions in one reactor instead of two or more, and concentrates sulphur dioxide gas into a single gas stream, instead of two, which can be treated more effectively for sulphur removal. Sulphur dioxide is a source of acid rain.

Sponsoring the flash smelting research are NSERC, Cominco, Brunswick Smelting, Hatch Associates and INCO.

The UBC researchers will later expand their flash smelting work to include other metals.

Another major thrust of the centre will be research into shaping steel into various products using heat and mechanical force.

Dr. Brimacombe has won this year's award from the American Society for Metals for his research contributions to metallurgy. He won the same prize in 1980.

Orientations programs organized

UBC's Student Counselling and Resources Centre is out to make life a little easier for students who will enrol at UBC for the first time in September.

A two-month orientation program which began on July 2 is designed to reduce the anxiety experienced by most new students, according to counsellor Jim Jamieson, who arranges the program.

The orientation program involves campus familiarization, discussion groups led by senior students and workshops on such topics as time management, academic survival skills and life in residence.

The orientation day program will be held on 14 days in July from 9:30 a.m. to 4:30 p.m. A \$10 fee includes lunch.

The orientation weekend program from 1 p.m. Saturday to 1 p.m. on Sunday is scheduled for 5 weekends in July and August. A \$40 fee includes three meals, a night in residence, a swim and a dance.

During August, at 25 three-hour sessions, new students will take part in discussion groups and tour the campus.

The three-hour orientation sessions, like the parent-information sessions scheduled for six sessions in July and August, are free. The final component in the orientation program is a July 13 Information Day in the Faculty Club from 10 a.m. to 3 p.m. A \$10 fee includes lunch.

Detailed information on the orientation program is available by calling 228-3180.

Library announces new appointments

Appointments to two key positions in UBC's Library system have been announced by Librarian Douglas McInnes.

The new head of the Sedgewick Library, UBC's unique underground library for undergraduate students, is Miss Joan Sandilands, who has been head of the library system's Information and Orientation Division since 1975. She succeeds Mr. Ture Erickson, head of the Sedgewick Library for two decades, who has moved to the Humanities and Social Sciences Division as a reference librarian.

The new head of the Main Library's Circulation Division is Mrs. Mary Banham, who succeeds Miss Rita Butterfield, who took early retirement in the spring.

Miss Sandilands is a graduate of the University of Alberta (BA) and UBC (MA in classics and BLS'68). She joined the library staff in 1968 and served as a reference librarian in humanities and in the Woodward Library before being named head of I&O.

Mrs. Banham is also a UBC graduate (BA and MLS'77) who joined the Circulation Division eight years ago. She has been acting head of the division since Miss Butterfield's early retirement.



Student Library assistants Andrea Hawkes and Sharon Goddard are one of three teams of students who are this summer using industrial vacuum cleaners to dust the more than 925,000 volumes and shelves they sit on in stacks of UBC's Main Library. Dust will cause deterioration and shorten a book's shelf life unless removed.

UBC EVENTS AND

Guided Walking Tours

UBC offers free guided walking tours of the campus at 10 a.m. and 1:30 p.m. Monday through Friday. Tours last approximately two hours and can be geared to the interests of the group. Some of the highlights include the Asian Centre, the Japanese Nitobe Garden, the unique Sedgewick underground library, the Aquatic Centre, the UBC Geology Museum and many other sights on UBC's 990-acre (402-hectare) campus. If you'd like to explore on your own, self-guided walking tour packages are available at the information desk in the Student Union Building or from the Community Relations Office, located in Room 207 of the Old Administration Building. To book a guided tour, please call 228-3131.

Olde English Teas

Sunday afternoons are for relaxing, and one special way to indulge yourself is to treat yourself (and friends!) to Sunday afternoon tea at UBC. The English teas are offered every Sunday from 1 to 5 p.m. at Cecil Green Park, a beautiful turn-of-the-century mansion which overlooks Georgia Strait. English scones with Devonshire cream and preserves, tea sandwiches, fresh fruit and pastries, and specialty teas and coffees are served either inside or on the terrace. Reservations, although not necessary, can be made by calling 228-2018. Your receipt from the tea is worth one free admission (valid the same day only) to the Museum of Anthropology.

Keep in Shape!

UBC invites you to make use of the many sports facilities located on the campus. Our Aquatic Centre features indoor and outdoor swimming pools, a whirlpool, saunas, steam rooms and a fitness gym (for hours, call 228-4521). We also have indoor and outdoor tennis courts (228-4396) and squash and racquetball facilities (228-6125). If you'd like to improve in your favorite sport or learn a new skill, why not take advantage of one of the many programs offered by UBC's Community Sports Services? Programs for children and adults are offered in everything from golf, hockey, soccer and fencing to gymnastics and computer sports strategy. For details, call 228-3688.

Dairy Barn Tours

We've come a long way since the three-legged stool! Come and tour UBC's Dairy Barn, a modern centre for dairy cattle teaching and research. Free tours are offered at 9, 10 and 11 a.m. and at 1, 2 and 3 p.m. weekdays. To book a tour, please call 228-4593.



Free guided walking tours of the UBC campus are offered at 10 a.m. and 1.30 p.m. Monday through Friday throughout the summer.

Give Yourself Credit

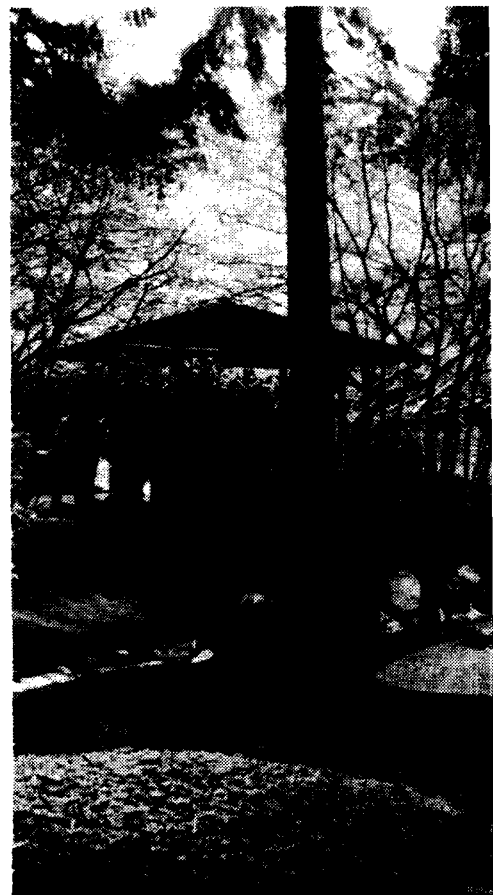
Learning is a life-long experience. No matter what your age or interest, UBC has something to offer you. If you'd like to be a student but have commitments during the daytime, why not explore the idea of part-time study at UBC? Many faculties offer courses in the late afternoon and evening. For details, call the Extra-Sessional Studies office at 228-2657. Or take the independent approach. UBC offers a wide range of courses through guided independent study (correspondence courses). For more information, call 228-3214. If you'd like to learn just for fun, UBC's Centre for Continuing Education offers programs and workshops in a variety of areas, including public affairs, career development, genealogy, computers, travel, communications, language training and special science programs for children. For more information, call 222-2181. Many faculties at UBC also offer continuing education programs to keep professionals up-to-date with the latest knowledge in their field. Check with individual faculties for information on professional update programs.

View the Stars

Budding Galileos will enjoy a visit to UBC's Observatory, located in the Geophysics and Astronomy Building, where you can view stars, sunspots, solar flares and even planets through our telescopes and see a seismograph used to record earthquakes. Tours of the facility are offered Monday through Friday. For details, call 228-2802.

Geology Museum

If you've never seen an 80-million-year-old dinosaur skeleton up close, it's time for a visit to UBC's Geology Museum, located on the main floor of the Geological Sciences Building. The museum has an extraordinary collection of minerals and fossils and a gift shop with more than 1,000 mineral specimens for sale. Open weekdays from 8:30 a.m. to 5 p.m. with free admission.



Nitobe Japanese Garden

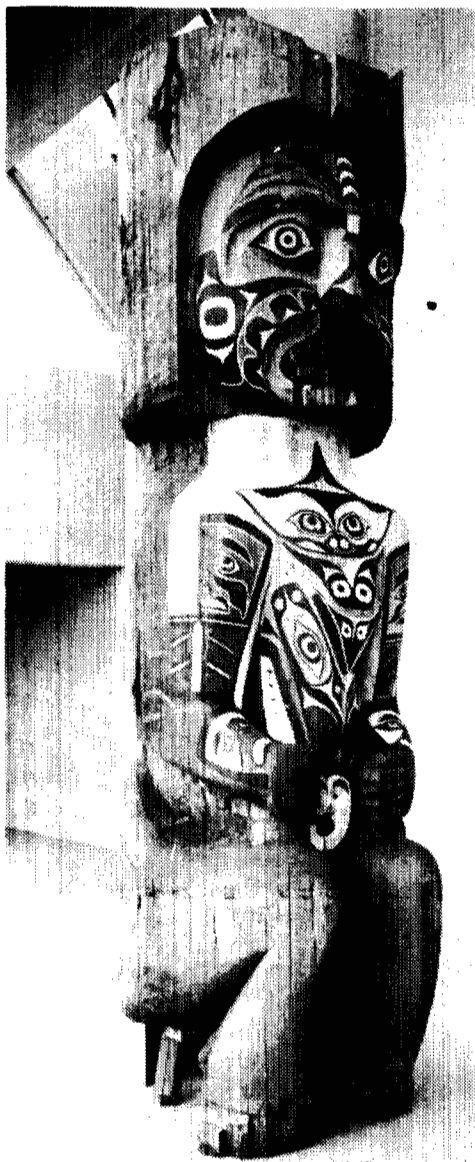
D ATTRACTIONS

Botanical Garden

Come take a stroll through UBC's Botanical Garden, which features acres of beautiful specialized garden areas. In the 55-acre Main Garden located on Stadium Road, you'll find the Alpine Garden, the B.C. Native Garden, the Asian Garden, the Arbor and Food Gardens and the Physick Garden, where plants used for medicinal purposes are grown. An Evolutionary Garden that will show the evolution of plants through geological time, is in the final stages of development. At the north end of the campus on the West Mall is the tranquil Japanese Nitobe Garden, which is considered to be one of the finest gardens of its kind outside of Japan. The Rose Garden, located at the north end of Main Mall below the flagpole, is in full bloom. The Main Garden is open daily from 10 a.m. to dusk. The Nitobe Garden is open daily from 10 a.m. to 6 p.m. For more garden information, call 228-3928. And if you need some gardening advice, don't forget that the Botanical Garden offers a free telephone information line called the Hortline (228-5858).



en is open daily



Museum of Anthropology

Museum of Anthropology

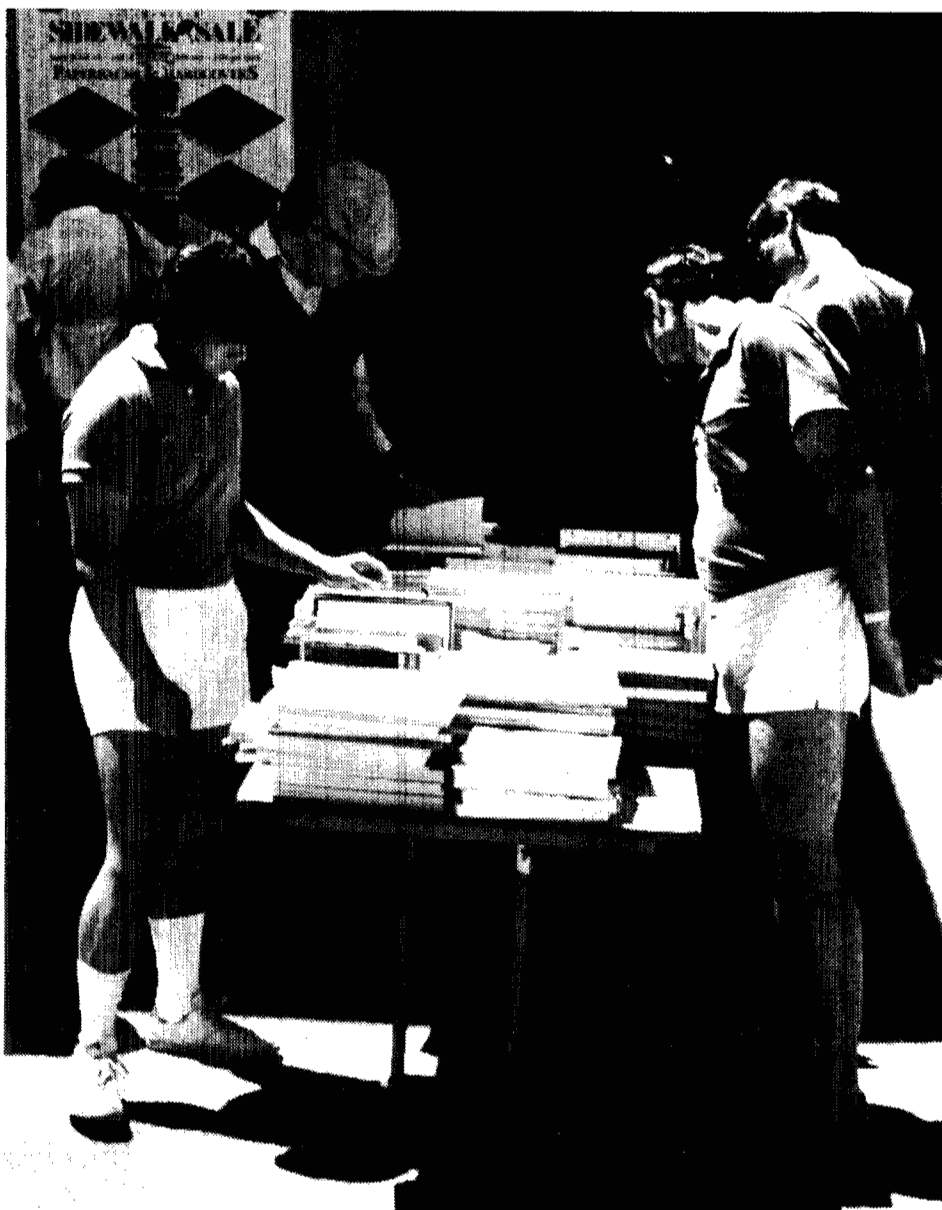
UBC's magnificent Museum of Anthropology houses one of the most impressive collections of Northwest Coast Indian artifacts in the world. Currently on display at the museum are the exhibits *Changing Tides*, which looks at archaeological research in B.C.'s Fraser Delta region; *Four Seasons: Seasonal Activities of Prehistoric Indian Peoples in B.C.*; and *Blue Jeans*, an unusual student exhibit which explores different themes related to this well-known and loved garment. The Museum of Anthropology is open from 11 a.m. to 9 p.m. on Tuesdays, 11 a.m. to 5 p.m. Wednesday through Sunday and is closed on Mondays. Admission is free on Tuesdays. For details on museum activities, please call 228-5087.

Restaurant Facilities

If you work up an appetite wandering around campus, UBC has food outlets offering everything from custom-made sandwiches and pasta to Mexican food, crepes, salad bars, and tantalizing bakery items. Located in the Student Union Building in the centre of campus are the SUBWay cafeteria and Longhouse Restaurant, which feature cafeteria-style service from 7 a.m. to 2:30 p.m. and waitress service from 2:30 to 8 p.m. seven days a week. For information on other campus food outlets, call 228-2616. UBC's Food Services department also offers catering services for any kind of celebration. For details, call 228-2018.

TRIUMF Tours

TRIUMF, a world-class facility for nuclear physics research located on the UBC campus, offers free tours at 11 a.m. and 2 p.m. weekdays throughout the summer. Tours meet in the reception area of TRIUMF, which is located at 4004 Wesbrook Mall on the south campus. Group tours or special tours at other times can be arranged by calling 222-1047, local 435. (The tour is not recommended for children under 14 and parts of the route may be difficult for pregnant or handicapped individuals).



A crick in the neck is one of the risks of scanning the titles in the UBC Bookstore's summer sidewalk sale, which continues until the end of August. Tables of books, with new offerings added each day, are available for browsing from 10 a.m. to 3 p.m. daily. Prices range from a low of 99 cents to \$3.49.

David Lam library opens

The David See Chai Lam Management Research Library in the Faculty of Commerce and Business Administration was officially opened in June. Mr. Lam, who provided \$1 million to create the library, spoke at the opening ceremony. What follows is a slightly edited version of his remarks.

Eighteen years ago, in 1967, I arrived in Vancouver with my wife, Dorothy, and three young daughters as immigrants from Hong Kong. We knew almost no one in the city and our daughters, aged 6, 10 and 12, spoke no English. They struggled with the challenge of learning English while going to elementary school. They overcame that challenge and completed their secondary education in Vancouver schools. In fact, two of them went on to earn degrees at UBC.

I went into the real estate business, selling first houses and then commercial properties. Being a stranger to the city, I always visited a property twice before I dared to take any client there as I was afraid of getting lost. Real estate was a new-profession for me as my background was in banking. To improve my knowledge and opportunity for success, I began taking evening courses at the

University of British Columbia. UBC was one destination which I could find from any location in the city as I continued taking evening courses in the Faculty of Commerce and Business Administration for five years, obtaining a Diploma in Real Estate Appraisal.

I benefited greatly from the training which I received at UBC. To me, the pursuit of knowledge has always been an important and exciting quest which has rewards far beyond the income-producing value of professional training. I have always driven myself to pursue excellence and improve myself.

The occasion of the opening of this library is of great significance to me. A management research library is a very important and worthwhile resource to both the academic world and the business community. I am grateful to the University for offering me this role in initiating and actualizing such a practical project which will benefit both my friends who work in the theoretical world of academia and the practical world of the marketplace. It is also of no small significance to me that this library will serve many immigrants to this great country who will study in this outstanding University.

I want to use this occasion to say "thank you" to Canada for the opportunities which this country gave me as an immigrant to build a new life here. Very few countries offer the opportunities for success which enable an immigrant without capital to accumulate enough money to put something back into the community. I want to thank UBC for giving me the education and skills which assisted me in succeeding in the opportunities offered in Canada. My contribution to this library is but a small payment on the debt of gratitude which I owe.

The story of my struggles and success in this great country is typical of many immigrants. I prefer to do my philanthropic giving with little publicity. However, I have been persuaded that making this contribution publicly known will demonstrate that new Canadians who love this country are manifesting their gratefulness by putting something back into the community.

Institutions such as the University have suffered significant cutbacks during these difficult times. They require the support of concerned Canadians if our children, and future immigrants, are going to enjoy the quality educational opportunities afforded to us. Canadians must be willing to contribute financially to the University if it is to maintain its standard of excellence in this time of restraint.

I want to thank the Chancellor, Mr. Bob Wyman, and the Board of Governors for their generous offer to have this great library bear my name. This honor is one which I and my family value greatly and for which we thank you.

While the attention today may be focused on my financial contribution, this library will be successful and significant because of the untiring energy of my good friends Dean Peter Lusztig and Professor Mike Goldberg. As the individuals who give leadership to the Faculty of Commerce and Business Administration, they have built the environment of academic excellence which gives this library significance. They will continue to diligently pursue donors, library collections and staff which will make this an important library long after today's brief public attention has passed. We are all in their debt—but I more than you because they have offered me the privilege of participating in this exciting venture and honored me by having the fruit of their work bear my name.

Too often, when we focus on what we have achieved or what is being built, we neglect to thank God for giving us the abilities to make use of our opportunities. As I stand here today, I would be wrong not to acknowledge the tremendous strength which I and my family drew from our religious faith during the years when we struggled with loneliness, language and poor finances. I am grateful for those years of struggle as they made me aware that all that I have has come from God.

This library bears only my name; but those of you who know me know that my wife, Dorothy, has shared all of my struggles and successes with me. Her unflinching support has been the most important contribution to the successes in my life and I want to ask her to unveil the plaque. The wording on the plaque, as you will see, is in both Chinese and English. This is to serve as a reminder to all who see it that this library was built by an immigrant who had to make a "foreign" language his own before he could truly call this great country his home. Let it stand as a symbol to other immigrants of the tremendous opportunities in Canada—and to Canadians of the contributions made to this country by immigrants.



David Lam and the plaque unveiled recently to commemorate his \$1 million gift to create a management research library in UBC's Faculty of Commerce and Business Administration.

Service held for John Chappell

A memorial service was held Friday (July 5) for John S. Chappell, a 19-year member of faculty in the Department of Music, who died on June 25 at the age of 55.

Mr. Chappell died in Vancouver General Hospital while undergoing surgery to replace an artificial heart valve.

A native of Vancouver, Mr. Chappell graduated from UBC in 1963 with the degree of Bachelor of Music. He went on to graduate work at the University of Illinois, where he was awarded the degree of Master of Music in 1965.

Prior to joining the UBC faculty in 1966, Mr. Chappell was a well-known member of the Vancouver theatrical community through his association with Theatre Under the Stars, the Vancouver International Festival and the Canadian Broadcasting Corp., for which he wrote many scripts and film scores.

He also composed incidental music for a number of UBC theatrical productions, was a founding member of Holiday Theatre and was on the first executive of the Vancouver Arts Club.

Mr. Chappell's research interests as an academic were in 15th and 16th century European music, especially that written for the theatre. In 1966, he was awarded a Canada Council grant for research in Spain. He also conducted many UBC choral groups over the years.

Mr. Chappell was also a well-known member of the B.C. yachting community. His book entitled *Cruising Beyond Desolation Sound* is regarded as a bible by west coast sailors. A sequel to that book was almost complete at the time of Mr. Chappell's death and will be completed by the publishers.

Mr. Chappell is survived by his mother and father, Mr. and Mrs. John Chappell, of Gibsons, B.C. and by four sisters and a brother.

GRANT DEADLINES

Grant Application Deadlines: Aug. 1985

Faculty members wishing more information about the following research grants should consult the Research Services Grant Deadlines circular which is available in departmental and faculty offices. If further information is required, call 228-3652 (external grants) or 228-5583 (internal grants).

(Deadline Date in Parentheses)

- Association for Canadian Studies — Intercultural/Interregional Enrichment (31)
- Association of Commonwealth Universities — Staffing Assistance to Developing Universities (31)
- Australian Inst. Nuclear Science & Engineering — AINSE Research Fellowship (31)
- Bell, Max Foundation — Research (1)
- Canadian Research Inst. for Advancement of Women — Grants-in-aid (31)
- CUSO — George Drew Commonwealth Travel Bursaries (31)
- Damon Runyon-Walter Winchell Cancer Fund — Cancer-directed Fellowship (15) — Postdoctoral Fellowship Grant (15)
- Distilled Spirits Council of US — Grants-in-aid for Research (1)
- Donner Canadian Foundation — Programme and Research (1)
- Grant (William T.) Foundation — One-time Grants (1)
- Guggenheim (Harry Frank) Foundation — Career Development Awards (1) — Grants for Research (1)
- Health Effects Institute (US) — Research (20)
- Hereditary Disease Foundation — Research (1)
- International Copper Research Assn. — Research Contract (15)
- Labour Canada (TIRF) — Technology Impact Research Fund (15)
- March of Dimes Birth Defects Fdn. (US) — Clinical Research - Human Birth Defects (1) — Social & Behavioral Sciences Research Program (1)
- McLaughlin, R. Samuel Foundation — McLaughlin Fellowship in Medicine (15)
- MRC: Awards Program — MRC Scholarship (1)
- MRC: Grants Program — Grants-in-aid - NEW (1) — Major Equipment (1)
- National Institute on Mental Retardation — Research (15)
- National Multiple Sclerosis Soc. (U.S.) — Research (1)
- New Zealand Natl. Research Adv. Council — Senior and Postdoctoral Fellowships (1)
- North Atlantic Treaty Organization — International Collaborative Research (15) — Senior Scientist Programme (15)
- Ontario Economic Council — Contract Research in Manpower and Education (1)
- Spencer, Chris Foundation — Foundation Grants (31)
- Whitehall Foundation, Inc. — Research (1)
- Wolf Foundation (Israel) — Prize in Science and Arts (31)
- World Wildlife Fund (Canada) — General Research (1)

Note: All external grant requests must be signed by the Head, Dean, and Dr. R.D. Spratley. Applicant is responsible for sending application to agency.

Memorial service held for Gordon Shrum

B.C.'s academic and business communities paid their final respects to Gordon Merritt Shrum at a memorial service sponsored by UBC and Simon Fraser University in UBC's Old Auditorium on June 26. What follows are edited versions of the three tributes to Dr. Shrum read at the ceremony. Dr. Shrum died in his sleep on June 20 in his Chancellor Boulevard home near the UBC campus, six days after his 89th birthday.

DR. ROBERT H.T. SMITH, President pro tem., UBC: Gordon Shrum drove from Toronto to Vancouver, in 1925, to commence an appointment as Assistant Professor of Physics at UBC. He was promoted to Associate Professor in 1928, and to Professor in 1937. In 1938, he was appointed head of the physics department, a position he held until his retirement from his academic career in 1961. These are the bare facts of Gordon Shrum's career as an academic at UBC — but there was more, much more.

First, as head of physics, he presided over the expansion of a department which grew from four faculty members in the 1930's to 25 at the time of his retirement. He anticipated the great influx of post-World War II veterans, and he recruited aggressively and successfully in England and on the continent. This group of young and very able physicists was referred to as "Shrum's Foreign Legion", and included people from Holland, Germany, England and Poland.

The graduate student body of between 50 and 60 in the 1950's was an active and lively group, still small enough to retain a strong corporate spirit. This was fostered by Dr. Shrum's warm hospitality, of which his annual Christmas feast was typical.

Over 100 people used to assemble at Gordon Shrum's house, where he personally prepared a feast. The visitors sat on the floor, up the stairway, around the corner into the living room — everybody had a good time, and these were some of the lasting memories that many students have carried away with them.

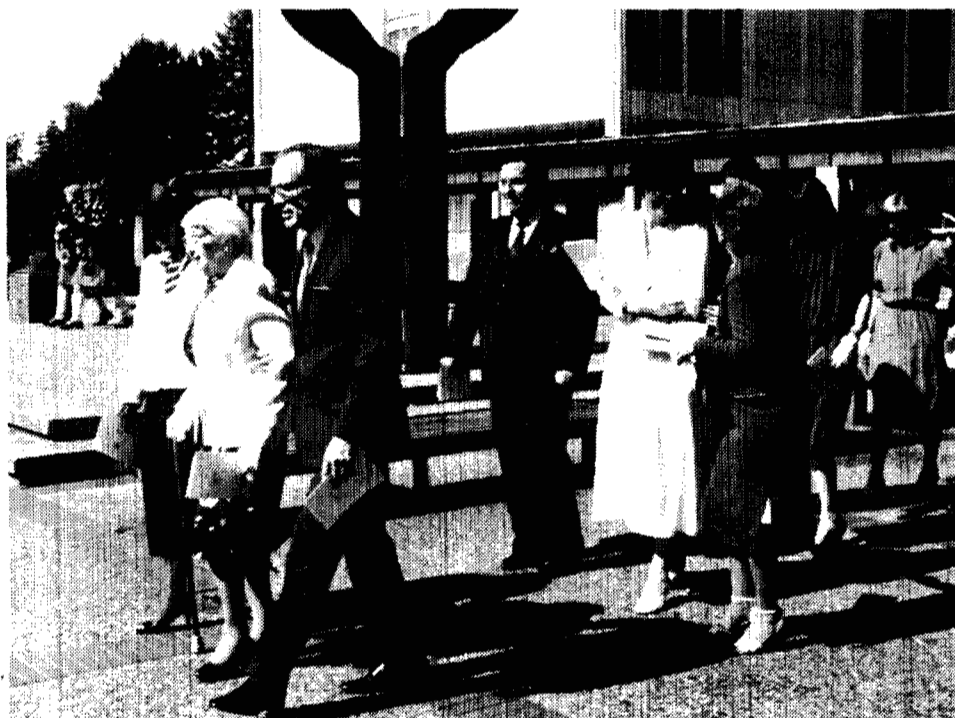
Another example of this corporate spirit came in the early years of World War II. His small physics department provided radio technician courses for young air force recruits — Dr. Shrum and his colleagues improvised, and built the necessary 120 breadboard circuits from old radios scrounged in Seattle. The funds saved thereby built the shed at the rear of the Science Building — it stands today, as a chemistry workshop.

But Gordon Shrum did many more things than head up the physics department. He was director of University Extension from 1937 to 1953. After a tentative start, the department blossomed under his leadership, extending its activities to the entire province.

Another major contribution of Gordon Shrum was related to graduate studies. Prior to the war, the UBC graduate program extended only to the master's degree. Immediately after the war, Shrum led the organization of the graduate school, leading up to the Ph.D. Dr. Shrum served as dean of Graduate Studies from 1957 to 1961.

The list of his extra-physics activities . . . is enormously impressive. As Director of Housing in the 1940's and anticipating the influx of veterans with President MacKenzie, he took some extraordinary steps to bring army huts onto the campus, which were installed and in use before the official negotiations in Ottawa were completed. These served as classrooms, dormitories, and meeting places: Acadia Camp was referred to as "Shrum's Slums".

He was in charge of the COTC during



Simon Fraser University pipers played a Scottish lament following a June 26 memorial service in UBC's Old Auditorium for Dr. Gordon Shrum. Members of the Shrum family, foreground, were on their way to the Asian Centre for a reception that followed the memorial service.

World War II, and through a unique contribution system — one which is the subject of many anecdotes — implemented at the daily parade, he raised the money to build the Armoury.

He served as director of Buildings and Grounds for a period, and his ability to exact quality performance from contractors was legendary.

Dr. Shrum had an unerring ability to pick the right person for the right job. He brought Gobind Khorana to B.C. when he was director of the B.C. Research Council. Khorana eventually went on to become a Nobel Prize winner.

This ability carried over to many spheres, including athletics, in which he maintained a keen interest.

His contribution to UBC was enormous. Above all, he will be remembered on this campus as an activist academic leader, a decisive no-nonsense administrator, and as an Expeditor Par Excellence. His legacy to UBC as an academic is formidable and will remain in perpetuity. He was indeed one of the great men of UBC and deserves his affectionate title as one of the "Builders of UBC."

DR. WILLIAM SAYWELL, President, Simon Fraser University: I doubt if anyone at this service knew Gordon Shrum as briefly as Jane and I — a mere 22 months. Yet we feel a very deep personal loss, for in that short time we came to know and love this man. No one lifted my spirits higher or made me feel good about life more often than SFU's first chancellor.

Bob Smith has talked about his early days at UBC. Let me focus on his post-retirement years as they centred on SFU. While most senior citizens enjoy their retirement, Gordon built the Peace River Dam and, at the same time, Simon Fraser University. In characteristic understatement he said of these accomplishments: "I found business the easiest thing I have ever been involved in. All you need to do is sit there and make some decisions, hire very good people to tell you what to do and do it." He also once remarked that "It's a wonderful feeling to be a committee of one."

In May, 1963, while building the Peace project, the Premier asked him to build a new university and have it open in just over two years. Later that day he reflected: "If I'm going to have this ready in 1965 I have to start this afternoon. And that's how we got started and he just said go ahead. I never had a budget. He never told me how much money I could spend."

Later, Dr. Shrum mused that "I had in the bottom of my heart an idea that I'm an old man and here's an opportunity to really do something spectacular. To put a university on top of a mountain . . . that I couldn't get out of my thinking." In two years, a mountain top was cleared of forest, faculty and staff hired, books and equipment bought and a university opened its doors to 2,500 students. As they say, the rest is history.

Gordon Shrum loved his university with a passion, just as he loved UBC and the university world with the abiding faith that this intellectual giant always maintained. He could not understand minds less curious than his or those who would not give to the development of our country's intellectual capacity the highest possible priority.

As for SFU, the entire institution is a living monument to the name of Gordon Shrum. We have also named our most prestigious scholarships and our science complex after him and we shall soon have the Gordon M. Shrum Endowed Chair in Science to honor him in perpetuity.

I shall always remember Gordon Shrum as a man of complete loyalty; with limitless intellectual curiosity, a superb sense of humour, an unmatched memory, and boundless energy and enthusiasm. His presence was pervasive and powerful. He was truly a great Canadian. I feel deeply honored to have known him, aggrieved that it was for so short a time. Dr. Shrum was a man who not only dreamed dreams but dared to live them.

I pray that those of us who have been blessed with his friendship and support will have the ability to protect and nurture the heritage he has left, and share the vision that molded it.

HON. NATHAN NEMETZ, Chief Justice of B.C. and former UBC Chancellor: We are here today to honor Gordon Merritt Shrum. As a friend, he was dear to me and my family. We grieve his death. All of us understand the grief of his family whom we also honor today. I should speak of Gordon Shrum in the present tense, because what he bequeathed is here around us and will be here after each of us ends our brief span on earth.

Each of us standing on this platform has reason to thank him. You have heard President Smith and President Saywell speak of his contributions to our great universities. Let me add to their eloquent tributes. The magnificent courthouse which stands in the centre of our city could not have been built without his energetic and organizational skills. For five years I had the privilege of working with him as he wrought the miracle of completing a building that had been waiting 20 years to emerge. During our period of utmost frustration he never once abandoned hope. His determination was a wonder to behold. Only two days before his death we had the great pleasure of hosting him at a lunch at the Law Courts. We were constantly interrupted as one person after another came over to speak to him and thank him for his work.

His gifts to our province are legion.

He gave us our high university standards. He gave us our system of university extension education, a program which reached not only the Lower Mainland, but all parts of our province. He gave us a system of dams that supplies us with abundant hydroelectric power.

In 1918 he was awarded the Military Medal for bravery. In the 1920's he achieved a significant breakthrough in the field of solid state physics. In the 1930's he created the best physics department in Canada at the University of British Columbia. He served this country again in the Second World War. Great Britain conferred upon him the Order of the British Empire. The Canadian government conferred upon him the Order of Canada.

A scholar, who earned his doctorate in the field of science, he became the greatest innovator and administrator we will ever know. His students say he was their best teacher; his friends looked to him with love, respect and admiration.

He established and directed the B.C. Research Council, was active in the National Research Council of Canada, the Defence Research Board and Atomic Energy of Canada. He served as president of the Royal Society of Canada.

We knew him as chairman of B.C. Hydro. We knew him as Chancellor of Simon Fraser University. At the age of 80 he was executive director of the Vancouver Centennial Museum and Planetarium. And until the day of his death, he was still active on a number of committees.

He has been called a great soldier, a great physicist, a great educator. He has been called a man of action who insisted on excellence. He has been called a great patriot.

But Gordon Shrum was much more than all the many tributes can total. Gordon Shrum was excellence itself. And all of us who knew him were truly privileged.

He has given us a noble heritage.

We can proudly say: we knew Gordon Shrum.

UBC CALENDAR

Calendar Deadlines

The next issue of *UBC Reports* will be published on Wednesday, August 14, and will cover events in the period Aug. 18 to Sept. 11. Material must be submitted not later than 4 p.m. on Thursday, Aug. 8. Send notices to UBC Community Relations, 6328 Memorial Road (Old Administration Building). For further information, call 228-3131. Items for inclusion in the Calendar listing of events must be submitted on proper Calendar forms which are available from the Community Relations Office.

WEDNESDAY, JULY 10 Computer Science and the Canadian Institute for Advanced Research Colloquium.

A Basis for Deductive Database Systems. Dr. John W. Lloyd, Computer Science, University of Melbourne, Australia. Room 301, Computer Science Building. 11:30 a.m.

Biomembrane Discussion Group Seminar.

Cell Motion, Contractile Networks, and Models of Cytoskeletal Flows. Dr. Micah Dembo, Theoretical Division, Los Alamos Scientific Laboratory, Los Alamos, New Mexico. Lecture Hall 3, Woodward Instructional Resources Centre. 12 noon.

Stage Campus '85.

Opening night of David French's play *Leaving Home*. Continues until July 20. Tickets are \$5, \$4 for students and seniors. Mondays are two-for-one nights. For reservations, call 228-2678. Frederic Wood Theatre. 8 p.m.

Music Recital.

Solo Works for Clarinet and Piano. Karem Joseph Simon. D.M.A. candidate. Music. Recital Hall, Music Building. 8 p.m.

THURSDAY, JULY 11 Music for Summer Evenings.

George Zukerman, bassoon; Leslie Janos, piano; and John Doerksen, cello play music by Weisgarber, Avison, Beethoven and Mozart. Recital Hall, Music Building. 8 p.m.

SUNDAY, JULY 14 Free Music Concert.

Academic Orchestra of the University of Stuttgart opening concert of Pacific Northwest tour. Program includes music by Bach, Mozart, Beethoven and Schubert. Recital Hall, Music Building. 8 p.m.

TUESDAY, JULY 16 NMR Imaging and Oxidative Metabolism Lectures.

Gated Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy in Hypoxia and Metabolic Diseases: Clinical Applications. The first of two lectures by Dr. Britton Chance, director, Institute of Structural and Functional Studies, University City Science Centre, University of Pennsylvania. Hurlburt Auditorium, St. Paul's Hospital. 12 noon. Current Thoughts on Cytochrome Oxidase: Structure and Function as Studied by EXASS. Second of two lectures by Dr. Britton Chance, University of Pennsylvania, who pioneered the use of nuclear magnetic spectroscopy as a non-invasive diagnostic tool. Lecture Hall 3, Woodward Instructional Resources Centre. 3:30 p.m.

Music for Summer Evenings.

The Vancouver Guitar Quartet—Michael Strutt, Alan Rinehart, Allan Morris and Don McAbney—perform. Program includes music by Telemann, Joplin, Mozart and Holst. Recital Hall, Music Building. 8 p.m.

WEDNESDAY, JULY 17 Industrial Relations Management Seminar

Work in the 20th Century. Prof. Philip Mirvis, Organization Behavior, Boston University. Salon A, Faculty Club. 10 a.m.

THURSDAY, JULY 18 SUB Films.

Vision Quest. Continues until July 20 with shows at 7:30 and 9:45 p.m. Admission is \$2. Auditorium, Student Union Building. 7:30 p.m.

Music for Summer Evenings.

Gaye Alcock, piano, plays music by Beethoven, Chopin, Schumann and Liszt. Recital Hall, Music Building. 8 p.m.

TUESDAY, JULY 23 Biochemical Discussion Group Seminar.

Structural Studies of Complex Flavoproteins and Flavocytochromes. Prof. Scott Mathews, Washington University, St. Louis, Missouri. Lecture Hall 1, Woodward Instructional Resources Centre. 4 p.m.

Music for Summer Evenings.

Jeffrey Campbell, organ; Thomas Parriott, trumpet; and Bruce Pullan, tenor perform a program that includes music by Martini, Handel, Torelli and Scarlatti. Recital Hall, Music Building. 8 p.m.

WEDNESDAY, JULY 24 Biochemical Discussion Group Seminar.

Characterization of the Phosphorylated HPr of the Bacterial Phosphoenolpyruvate, Sugar Phosphotransferase System. Dr. Bruce Waygood, Biochemistry, University of Saskatchewan. Lecture Hall 1, Woodward Instructional Resources Centre. 4 p.m.

THURSDAY, JULY 25 SUB Films.

The Killing Fields. Continues until July 27 with shows at 7:15 and 9:45 p.m. Admission \$2. Auditorium, Student Union Building. 7:15 p.m.

Music for Summer Evenings.

John Loban, violin, and Lee Kum-Sing, piano, perform music by Beethoven, Schubert, Debussy and Kreisler. Recital Hall, Music Building. 8 p.m.

MONDAY, JULY 29 AIESEC-UBC Luncheon.

Business luncheon. Bruce Howe, President of BCRIC, will speak on Marketing B.C.'s Products within the Pacific Rim. Cost is \$25. For reservations, call 228-6256. Hotel Vancouver. 11:30 a.m.

TUESDAY, JULY 30 Music for Summer Evenings.

Gerald Stannick, viola; Charles Foreman, piano; and John Loban, violin perform Music of Mozart, Schubert, Debussy and Hindemith. Recital Hall, Music Building. 8 p.m.

WEDNESDAY, JULY 31 Stage Campus '85.

Opening night of Alan Bennett's play *Habeas Corpus*. Continues until Aug. 10. Tickets are \$5, \$4 for students and seniors. Mondays are two-for-one nights. For ticket reservations, call 228-2678. Frederic Wood Theatre. 8 p.m.

THURSDAY, AUG. 1 SUB Films.

The Sure Thing. Continues until Aug. 3 with shows at 7:30 and 9:45 p.m. Admission is \$2. SUB Auditorium. 7:30 p.m.

Music for Summer Evenings.

"Music for Flute in Beethoven's Time" played by Paul Douglas, flute and Jane Gormely, piano. Music by Beethoven, Mozart and Kuhlau. Recital Hall, Music Building. 8 p.m.

TUESDAY, AUG. 6 Music for Summer Evenings.

Jane Coop, piano; Carolyn Cole, violin; and Paula Kiffner, cello, play music by Beethoven and Mendelssohn. Recital Hall, Music Building. 8 p.m.

THURSDAY, AUG. 8 SUB Films.

Oxford Blues. Continues until Aug. 10 with shows at 7:30 and 9:45 p.m. Admission is \$2. Auditorium, Student Union Building. 7:30 p.m.

Music for Summer Evenings.

Organist Edward Norman performs music by J.S. Bach. Recital Hall, Music Building. 8 p.m.

TUESDAY, AUG. 13 Botany Seminar.

Nutrient Fluxes into Apple Roots Under Field Conditions. Dr. K.K.S. Bhat, Plant Physiology Division, East Malling Research Station, Kent, England. Room 3219, Biological Science Building. 12:30 p.m.

Notices . . .

Bookstore

Annual Sidewalk Book Sale. New Selection Daily. 10 a.m. to 3 p.m. rain or shine.

UBC Daycare Centre

Unit 1 has openings for children ages 18 months to 3 years. Full-time, part-time or summer months. Please call 228-3019 (days) or 271-2737 (evenings).

Volunteers Wanted

Women over 55 are needed for a study exploring the effect of training on increasing arm strength. The study will be done in the fall, and will last 12 weeks. Training will be done at home, and will take only a few minutes three days a week. The study is under the direction of Prof. Stanley Brown. For information, call 266-6965 (evenings).

Graduate Student Centre

The Garden Room Lounge is open Monday to Friday, 4:30 to 11:30 p.m. Full bar service and snacks. Special nights with special prices: Mondays, Wednesday and Fridays from 4:30 to 8:00 p.m. Graduate students, faculty, staff, guests and visitors welcome.

Asian Centre Exhibitions

A total of five displays by Chinese artists are scheduled for the Asian Centre at UBC this summer. All will be staged in the Auditorium of the building and admission is free. For further information, call 228-4688.

To July 13—Traditional Chinese paintings and seal carvings by Lee Chakman and Evelyn Liang. 12 noon to 6 p.m. daily.

July 19—30—An exhibition of paintings by Prof. Tien Mah-Shih, Fine Arts, Chinese Cultural University, Taiwan. 11:30—5:30 p.m. daily (opening reception on July 18, 7:30—9:30 p.m.)

Aug. 2—15—Paintings by Xu Min, Australian Association of Chinese Artists. 11:30—5:30 p.m. daily (opening reception Aug. 1, 7:30—9:30 p.m.)

Aug. 16—25—Works by Huang BinHong (1864—1955). 12—6 p.m. daily.

Aug. 29—Sept. 13—Traditional Chinese watercolors by Daih Bei-juhn. 12—8 p.m. daily.

Getting to Know Vancouver

Classes begin Monday, July 22 and Monday, August 12. English as a Second Language course for visitors and newcomers to Vancouver. For further information, please call the English Language Institute, Centre for Continuing Education at 222-5258.

Summer Field Trip

Centre for Continuing Education field trip to Wells Gray Provincial Park from Aug. 2—5 led by Catherine Hickson, Geology. Fee: \$450.00. Information—222-5207.

Malcolm Lowry Exhibit

Special Collections has on exhibit, for the month of July, a selection of materials relating to Malcolm Lowry and his work. This exhibit, entitled "Malcolm Lowry: Inspirations and Influences," highlights the people and writings that had an influence on Lowry. In turn, those people that have been inspired by Lowry are represented through various works, including the movie *Under the Volcano* and the play *Goodnight Disgrace*.

Language Programs

Three week, non-credit intensive daytime programs in French, Spanish and Japanese start July 29. Accommodation on campus is available for students registered in these programs. For more information, please contact Language Programs and Services, Centre for Continuing Education, at 222-5227.

Research Forest Tours

Why not enjoy an educational outdoor experience at the University of B.C. Research Forest in Maple Ridge this Sunday? Free guided walks begin at 2 p.m. each Sunday, rain or shine, until Sept. 2. The walks are led by registered professional foresters and last approximately two hours. The trails are well constructed. Visitors are encouraged to bring along a camera and a picnic lunch and make a day of it. For further information and directions, contact the Research Forest at 463-8148 or the Canadian Forestry Association of B.C. at 683-7591. The forest is open to the public from dawn to dusk seven days a week for those who wish to explore on their own. Groups of 20 or more can arrange for individual guided tours during the week. Dogs are not allowed in the Research Forest.

Botanical Garden Hours

The Nitobe Japanese Garden, located adjacent to the Asian Centre, is open daily from 10 a.m. to 6 p.m. The Main Garden, located on Stadium Road, is open daily from 10 a.m. to dusk with free admission.

Competitive swimming camp held at UBC

UBC's first-ever competitive swim camp for boys and girls aged 10 to 17 opens Monday (July 15) under the direction of head swimming coach Jack Kelso.

The camp, which continues until July 19, will be conducted by UBC coaches and elite members of the UBC swim team. The camp includes video analysis of participants' technique, training methods, conditioning and lectures.

Coach Kelso was recently named manager of the Canadian swim team that will go to the World University Games in Kobe, Japan, in August. Ken Radford, assistant coach of the swim team for the past four years, will serve as head coach of the swim program in 1985-86, while Kelso is on a year's leave of absence.

The UBC Thunderbird football team opens its 1985 schedule with a home game against the University of Saskatchewan Huskies on Sept. 7. The game will get under way at Thunderbird Stadium at 7:30 p.m.

The home opener will be followed by three away games, which means the 'Birds won't be seen locally again until Oct. 5, when they meet the University of Alberta Golden Bears.

Other home games are scheduled for Oct. 18 against the University of Manitoba and Oct. 25 against the University of Calgary.

UBC's women's field hockey team returned from a month-long tour of Europe recently with a record of 15 wins, four losses and three ties.

The team played matches in Belgium, Czechoslovakia, Austria, Holland and Germany and encountered their stiffest opposition against national teams. They split a pair of games against the Czechs, tied the Belgian squad 0-0 and defeated the Austrian Junior National Team 4-2.

The UBC team won the Hans Kipp International Tournament in Marburg, West Germany, and placed second in another tournament.

Members of the team raised most of the funds to pay for the tour over the past two years. Other support came from individuals and alumni, the Walter H. Gage Fund and the UBC Alumni Association.

FIRST CLASS MAIL

UBC Reports is published every second Wednesday by Community Relations, UBC, 6328 Memorial Road, Vancouver, B.C., V6T 1W5. Telephone 228-3131. Lorie Chortyk, editor; Jim Bamham, contributing editor.