

UBC REPORTS

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UBC's 1986-87 budget picture

UBC won't have to carry out a major retrenchment in the 1986-87 fiscal year.

President David Strangway said the University would be able to avoid further major retrenchments as the result of an increase in the provincial operating grant of 10 per cent to base budgets of the universities.

The additional funding has come from the provincial government's Fund for Excellence in Education, announced by Premier Bill Bennett in February.

The three-year fund, in addition to augmenting UBC's operating budget, will provide the University with additional funds in biotechnology, international business and Asian legal studies, and provide seed money for computer systems and forestry research.

Dr. Strangway said he was "very pleased with the way in which post-secondary education minister Russ Fraser and the

provincial government had responded to the needs of the universities.

"The first of these is the need to increase the on-going financial base of the University's budget, which meets our day-to-day operating costs and ensures our ability to retain a degree of vitality and flexibility to provide a University able to participate in the social and economic well-being of the province.

"The second is provision of support for the further development and strengthening of selected areas of excellence in teaching and research.

"Finally," the president said, "the government has provided allocations for merit salary increases and for faculty renewal, which means that UBC will be in a position to retain outstanding teachers and researchers and to compete internationally for new faculty members at a time when the competition for faculty is increasing across North America."

UBC's general purpose operating grant of \$163,093,496 has been supplemented by a further \$6,855,000 from the Fund for Excellence in Education. UBC will also receive a share of a further \$10 million to be released from the fund, according to a June 13 announcement by the Minister of Post-secondary Education, Russ Fraser.

At that time, Mr. Fraser also announced the release of \$7,760,000 to the three public universities to be used for specific projects. UBC received \$4,660,000, or 60 per cent of the total.

\$2,320,000 was allocated for the development of centres of excellence in: biotechnology (\$2 million); international business (\$290,000); and expansion of the program in Asian law (\$30,000). \$1,080,000 was provided to upgrade the computer capacity; \$40,000 went to planning support in forestry; \$40,000 for planning support in computer systems; and \$1,180,000 was released for health care teaching costs at Vancouver teaching hospitals.

In addition to a share of the \$10 million being allocated by the Universities Council of B.C. in consultation with the universities, UBC will also receive a share of a \$2.4 million Ministry of Labour fund for work-study programs at the three public universities. The provincial government will also give UBC \$96,000 to support the Co-operative Education Program.

Associate VP appointed

Prof. A.J. "Bertie" McClean of the Faculty of Law has joined the staff of the President's Office as an associate vice-president following the retirement of Prof. Charles Bourne, presidential advisor on legal matters since 1975.

Prof. McClean has taken on duties associated with providing legal advice to the President's Office and is also assisting academic vice-president Prof. Daniel Birch in planning.

Prof. McClean's duties will be more precisely defined after the pending appointment of the vice-president for student and academic services.

A UBC faculty member since 1960, Prof. McClean was dean of Law from 1971 to 1976 and has served on a number of key Senate and presidential advisory committees. In addition to his duties in the President's Office, he will continue to teach one course in Law and to edit the *Canadian Bar Review*.

Negotiations focus on salary issues

Forthcoming negotiations between the Administration and the UBC Faculty Association will centre on an association brief which calls for estimated increases in salaries and benefits totalling more than 16 per cent of the University's salary base.

The Administration's negotiating team will be headed by Prof. Dennis Pavlich of the Faculty of Law, a former president of the Faculty Association. Dr. Richard Spencer of the Department of Civil Engineering heads the negotiating team for the Faculty Association.

Prof. Daniel Birch, UBC's vice-president academic, said a meeting of department heads and directors of schools was planned during the summer to raise some of the issues involved in the negotiations.

"The government has allocated some funds for merit increases for faculty from the Fund for Excellence in Education," Prof. Birch said. "Our first priority will be to deal with merit salary increases with limited resources."

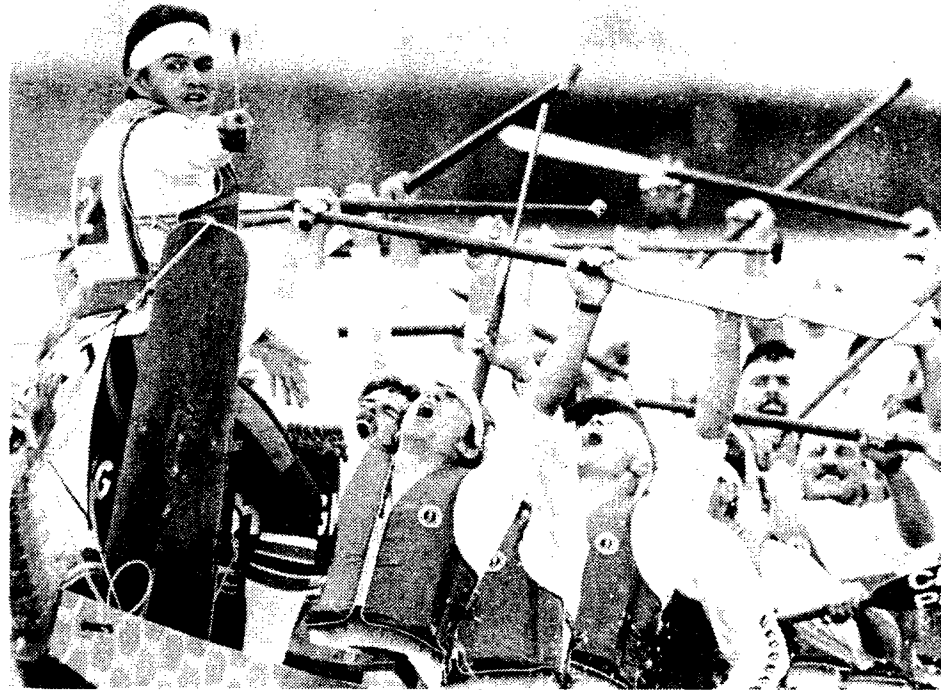
Traffic rerouted

Traffic flow in the area behind the Acute Care Unit of the Health Sciences Centre Hospital has been modified slightly to accommodate construction work under way on a new campus Biomedical Research Centre.

East Mall is now a two-way street north of the hospital parkade, allowing motorists to turn either left or right upon exiting the parking area.

The short road from East Mall to Health Sciences Mall, between the parkade and the Library Processing Centre has also become a two-way road. Health Sciences Mall has been blocked off north of the parkade entrance, but still allows access to the rear of the Extended Care Unit.

Traffic signs in the area clearly mark the new routes.



UBC makes the team! Seven UBC medical students and a UBC firefighter were members of the Dragon Boat Racing team that placed first in the Vancouver Dragon Boat races held at Expo last month and went on to represent Canada in the Hong Kong Dragon Boat Festival International Races 1986. The team, captained by Hugh Fisher, a UBC student and 1984 Olympic gold medalist in the Kayak K2 event, placed second in Hong Kong. Team members included UBC medical students Peter Tonseth, Steve Sotherland, Bob McGraw, Mike Flesher, Jamie Johnston, Howard Joe and UEL firefighter Bill Cowie.

Archeologists in action

The University of B.C.'s 1986 Summer Field School in Archaeology, which began on Monday (July 7) and continues until Aug. 15 is very much a public affair.

The 13 students enrolled for the credit course in the Department of Anthropology and Sociology are working under the gaze of the public at a site on Spanish Banks, just below the UBC campus opposite the 5500 block on Northwest Marine Drive.

The Archaeological Society of B.C. is staging daily public tours of the site, believed to be a seasonal camping place used by coastal Indians some time in the period 400 B.C. and 400 A.D. It was first described by the late Charles Borden, the UBC professor who came to be known as the father of B.C. archaeology.

The tours enable the public to see how archaeologists excavate a site, and separate artifacts and other material from the soil prior to laboratory cataloguing. There is also a display of Indian artifacts and illustrations showing how they were used.

Dr. Gary Coupland, director of the UBC field school, said there will also be demonstrations by the students of the way Indians created stone tools by a process called "flint knapping."

He said the three-unit credit course is designed to give students an introduction to the techniques of archaeological excavation. "The classroom for the course is the site itself," he said, "and the students are getting hands-on experience in archaeological field work."

Dr. Coupland said the excavation would be carried out over an area of some 20 to 25 square metres to a depth of about a metre. "The total area of the site is quite large," he said, "but the location where we'll be digging is the deepest and most concentrated in terms of Indian occupancy."

He said it is thought the Indians came to the site on a seasonal basis to gather mussels and to fish for smelt and herring.

Dr. Coupland said another objective of the dig is to determine over what period the site was used for food gathering. "We know it was in use about the time of Christ," he said,

"based on a radio carbon date of 20 B.C. from Charles Borden's excavations."

The UBC students are at the site from about 9 a.m. to 4 p.m. Monday through Friday.

Members of the Archeological Society will be at the site every day to conduct tours between 9:30 a.m. and 3:30 p.m. Both the field school and the Archeological Society have received financial support from the provincial government through the Heritage Trust for the summer program.

Group tours can be booked in advance by calling Kitty Bernick at 873-5958 or Pam Adory at 430-8327.

Sexual harassment policies reviewed

A four-member ad hoc committee on sexual harassment has been established by President David Strangway.

The committee will advise on the preparation of a policy on sexual harassment, including defining and establishing procedures for dealing with complaints about sexual harassment.

It will advise on the steps necessary to implement procedures and policies, including consultations with other interested groups on campus.

The committee will review sexual harassment policies from other Canadian universities and consider a selection of relevant literature. Members of the University community are invited to submit their ideas, and may get in touch with committee members for further information.

Committee members are Prof. A. Jean Elder, History (228-5165); Prof. A.J. McClean, associate vice-president (228-6330); Prof. C. Lynn Smith, Law (228-2177); and Dr. Nadine Wilson, Physiology (228-3421).

Norman Spector: Some campus views

Premier Bennett's former deputy minister Dr. Norman Spector was appointed a senior fellow by UBC's Board of Governors June 10 on the recommendation of UBC President David Strangway.

The controversial appointment is for a three-year, part-time term to begin Sept. 1 of this year or next. Dr. Spector has not yet indicated when he will take up the position.

Dr. Spector holds a Ph.D in political science and has taught political science and public policy at the University of Ottawa. He will teach and do research and writing in the Faculties of Arts and Commerce and Business Administration. His salary will not come out of the operating budget of the University.

UBC Reports contacted members of the University community for their reaction:

"The establishment of a mechanism that enables the University to bring together students and faculty with experts from government and business is long overdue. However, I think the procedure followed for the appointment of the first senior fellow was unfortunate.

"While Dr. Spector is a controversial figure, the Department of Political Science is eager to discuss with him ways in which he can contribute to the teaching program, particularly in courses dealing with Canadian and B.C. government."

Dr. David Elkins
Head, Department of Political Science

"Until colleagues have had an opportunity to meet with Dr. Spector, it is too early to say what and how much teaching he will be doing in Arts. The date on which he will take up his appointment will also have to be cleared up before firm plans for taking advantage of his presence on campus can be made.

"Should Dr. Spector's participation in the teaching in the Arts faculty extend beyond the occasional lecture or seminar, he will be recommended for appointment to an appropriate teaching rank on an honorary (without salary) basis, as is the practice in Arts with respect to librarians, museum personnel and others who hold other appointments on campus, but who also teach in the faculty."

Dean Robert Will
Faculty of Arts

"As I see it, there's no problem with Dr. Spector being on campus as a professor. Given his experience, he'll be able to provide an interesting viewpoint and inside look to his students. Denying him permission to teach would go against the very concept of academic freedom for which the Faculty Association strives.

"My only dissatisfaction with the appointment is the lack of consultation and uncertainty of circumstances surrounding it."

Simon Seshadri
President
Alma Mater Society

"There is widespread misunderstanding on campus and in the media concerning objections to the appointment of Dr. Spector. What is unacceptable to me and to many of my colleagues is the establishment of the position of senior fellow without appropriate University-wide consultation.

"My own feeling is that had appropriate consultation taken place, Dr. Spector would have been a prime candidate for appointment as a senior fellow in the light of his experience in public affairs and government."

Dr. Stephen Straker
Department of History

"Our faculty already has a strong executive-in-residence program. Experts from the business community spend a term or two on the campus to share their knowledge and experience with faculty and students. They also give noon-hour lectures and appear as guest lecturers in various classes at the invitation of faculty.

"I look forward to Dr. Spector joining us. His expertise in the public sector will complement the resource people from the private sector now assisting us."

Dean Peter Lusztig
Faculty of Commerce and Business Administration



A unique exhibit of paintings by Jack Shadbolt at the Museum of Anthropology is just one of the exciting events taking place at UBC this summer (see story on Page 4). Pictured above is Shadbolt's Killer Birds.

Computerphobia: Is it hindering our society?

A University of B.C. professor of education says opportunities for the stimulation and enrichment of students are being lost because some teachers suffer from "technological anxiety."

Prof. Stanley Blank, who has been researching and developing teaching materials for gifted children for 15 years, says some teachers appear anxious about many aspects of the so-called "new technology," and develop what's referred to by researchers as computerphobia, computer anxiety or technophobia.

Prof. Blank's interest in technological anxiety began when he noted that some teachers were using the computer as an "automated teaching machine" or word processor, instead of using its full capabilities to stimulate students.

This led him to do a thorough literature search, which revealed that computerphobia is widespread and is linked to industrial sabotage by people at all management levels, including highly placed executives.

"The anxiety people feel about technology in general, and computers in particular, seems to stem from two beliefs," he says. "There appears to be a deep-seated fear that humans are being replaced by machines or a perception that the technology is too difficult to master."

Prof. Blank says both the manufacturers of technological devices and top management in companies where computers have been suddenly introduced have to share some of the blame for the widespread fear of technology.

"Manufacturers have developed a whole new language for the new technology which seems almost deliberately designed to make it mysterious. The last thing they thought of, apparently, was a simple language that everyone could understand.

"And many companies, large and small,

simply made a decision to introduce computers without any warning, which has led to resentment on the part of some employees, who vent their anger on the employer by sabotaging the system. Corporations are prepared to spend millions on a new computer system, but virtually nothing in the preparation of employees for the impact of the technology."

If people don't commit themselves to mastering the capabilities of the new technology, he adds, the result is constant anxiety and fear.

The one thing Prof. Blank wasn't able to find in his literature search was a psychological "profile" of the kind of individual who's likely to fall prey to technophobia, which would enable a school system or business to identify teachers and employees who need special attention when new technology makes its appearance.

With a seed-money grant from Canada's Social Sciences and Humanities Research Council (SSHRC), Dr. Blank has developed a psychological model which he hopes will predict how people will react to technological innovation.

He plans to apply again to the SSHRC for another grant to field test the model. He'll use the results to develop some guidelines for introducing people to the new technology.

Prof. Blank doesn't agree with the argument that the problem will solve itself when the people who resent the new technology either retire or find other jobs.

"The experience of the past," he says, "tells us that the technology of the future will be just as uncomfortable for coming generations as present-day technology is for those who resent it.

"Technological anxiety will be with us indefinitely unless we pay more attention to human reactions and needs."

Killam prizes announced

UBC plans to recognize outstanding scholarly achievements by faculty members through a new program of \$20,000 Killam Research Prizes.

These prizes, awarded annually, will be funded with income from an endowment received by the University in 1965 and 1966 from the estate of the late Mrs. Izaak Walton Killam.

UBC was one of five Canadian universities and institutions which received a share of the \$100 million Killam estate. UBC's \$13.5 million share was earmarked for faculty salary supplements, for faculty research fellowships for advanced study and as general endowment funds.

Each of the new Killam Research Prize winners will receive two annual awards of \$10,000. The program will cost \$170,000 in the first year and \$340,000 each year thereafter.

Candidates for the awards will be nominated by UBC's 12 deans and reviewed by UBC's Faculty Awards Committee, which currently screens nominations for the University's top research award, the Jacob Biely Faculty Research Prize, and the Killam Senior Research Fellowships.

At least half of the new Killam Research Prizes will be reserved for outstanding UBC scholars who are in the early phases of their careers.

Izaak Walton Killam, who died in 1955, was known as "the mystery man of Canadian finance." He built an immense financial empire by underwriting and operating steel, pulp and paper, hydro-electric and grain companies across Canada and overseas.

Following his death, the federal government received in taxes \$90 million of his \$200 million estate. The money was used, in part, to fund the establishment of the Canada Council.

Mrs. Killam demonstrated her own financial acumen by vastly increasing the Killam fortune in the decade between her husband's death and her own in 1965.

Mrs. Killam bequeathed additional funds to the Canada Council, and also made bequests to Dalhousie University, the Montreal Neurological Institute and the Universities of Alberta and B.C.

Forest genetics chair established

A \$605,000 Chair in Forest Genetics and Tree Improvement has been established at UBC by the Natural Sciences and Engineering Council, the B.C. Ministry of Forests, the Council of Forest Industries (Coast and Northern Interior Lumber Sectors), the Interior Lumber Manufacturers Association and the Cariboo Lumber Manufacturers' Association.

The Chair, named in honor of the late Poldi Bentley, one of the founders of Canadian Forest Products Ltd., will support the appointment of Dr. Donald Lester, who joined UBC's Faculty of Forestry on July 1. Funding for the Chair is provided over five years.

Mr. Mike Apsey, president and chief executive officer of the Council of Forest Industries of B.C., described the Chair as a "fitting testament to the role Poldi Bentley played in the development of the British Columbia forest industry.

"The research to be conducted by the Chair's incumbent will help propel the science of forestry beyond the known, and onto the leading edge of a new era."

Dean Robert Kennedy of UBC's Faculty of Forestry said Dr. Lester's appointment will strengthen UBC's growing research activities in forest genetics and tree improvement. "Dr. Lester is a national leader in this field," said Dean Kennedy. "Both the University and the forest industry will benefit significantly from his leadership and expertise in this critical area of forestry research."

Dr. Lester received his doctoral degree in forest genetics from Yale University in 1962 and taught at the University of Wisconsin for 15 years before accepting a position as research forester with Crown Zellerbach Corporation in 1977. Since 1979 he has been

supervisor of forest biology research at Crown Zellerbach. Dr. Lester served as an adjunct professor in UBC's Faculty of Forestry from 1982 to 1984.

Dean Kennedy said that Dr. Lester will also play a key role in coordinating joint government, university and industry efforts in the area of tree improvement. He will be actively involved with leading industrial and government scientists and foresters in the province through membership on both the Coast and Interior Tree Improvement Boards.

"UBC is grateful to NSERC, the Ministry of Forests and the forest industry trade associations for their support of this Chair," said Dean Kennedy. "By strengthening university, government and industrial links in this important area, they are strengthening the future of forestry in British Columbia."

UBC hosts vehicle design competition

UBC plays host July 11-18 to the Innovative Vehicle Design Competition, an exciting international competition organized by UBC engineering students as an Expo 86 special event.

Engineering students from around the world have designed and constructed vehicles for the competition, which was organized by UBC engineering graduate Jeff Leigh and a team of volunteers from the UBC engineering school. It is the first international event of its kind ever held.

Vehicles will be judged in five categories -- performance, functionality, safety, energy efficiency and innovation. Fifty per cent of the final score will be awarded for innovation.

Contest winners will be announced at an awards banquet on July 18.

Vehicles will be tested in UBC's B-Lot parking area and on roads in the University Endowment Lands July 11 to 18. Visitors are encouraged to stop by to see the vehicles -- the best days for viewing are July 12 and 13. There will also be a parade of the vehicles from UBC to the Expo site on July 14 and the vehicles will be on display at the Kodak Pacific Bowl at Expo on July 14 and 19.

Competition Manager Jeff Leigh outlines the contest rules: "The vehicles must be able to carry two people and to travel on existing roadways. They must also have at least three wheels, storage space for three shopping bags, a range of 150 kilometres and be able to achieve a speed of 65 kilometres per hour."

Competing in the contest will be teams from UBC, California State University at Fresno, Western Washington University, Mankato State University, Switzerland's Institute of Transport and Traffic Engineering, the University of Manitoba, Musashi Institute of

Technology, Japan, Nippon Institute of Technology, Japan, the University of Sherbrooke and Queen's University.

Expo 86 is offering endowed university scholarships worth a total of \$250,000 to the top four schools in the competition.

Organization of the competition began four years ago when UBC engineering students were approached by Expo 86 about ideas for

Expo special events. A team of volunteers developed the idea for the contest and in 1984 the group formed the Innovative Vehicle Design Competition Society, a non-profit society managed by a board of eight directors from the University and industry and 15 volunteer coordinators. The society has a contract with Expo to manage the competition. Ten highly-qualified judges will decide the

competition winner. Contest judges are Dr. Gordon Campbell, director general of Road and Motor Vehicle Safety at Transport Canada; Ted Elliot, director of engineering at Chrysler Canada Ltd.; Gail Halderman, director, North American Design, Ford Motor Company; Dr. Ghazi Karim, a professor of mechanical engineering at the University of Calgary; Kazuo Morohoshi of Toyota Motor Corporation, Japan; Ted Robertson, director of Canadian engineering, General Motors of Canada, Ltd.; Tony Rudd, managing director of Lotus Engineering, Ltd.; Dr. Bernd Strackerjan, a research engineer at Daimler-Benz; Hideo Takeda, executive chief officer of Honda Research and Development Company, Ltd., Japan; and Franklin Walter, president of the Society of Automotive Engineers.

The UBC competition entry was built by a team of 20 engineering students led by Bruce Hodgins, a mechanical engineering student who graduated this spring. The vehicle features a dual fuel engine, a microprocessor to monitor engine and suspension functions and a regenerative system to employ normally wasted braking energy.

UBC engineers have a good track record in vehicle design competitions. Ten years ago they beat out several heavyweight teams to win first prize with their 'Wally Wagon' entry in a competition organized by MIT and the University of Illinois at GM's Proving Grounds in Detroit. In 1979 a UBC team came first in their division in an Energy Efficient Vehicle Competition sponsored by the University of Florida.

More information about the upcoming competition is available at the Innovative Vehicle Design Competition office at 228-4433.



Competition manager Jeff Leigh checks out UBC's B-Lot parking area, where entries in the Innovative Vehicle Design Competition will be tested and displayed next week.

Hard work pays off for UBC physicists

Two UBC undergraduates were among the top 10, and four were among the top 25 in this year's Canadian Association of Physicists competition. A total of 118 students from 27 universities competed, and no other university had four students among the top 25.

These results underline the hard work of UBC's Physics Department, and its emphasis on quality undergraduate teaching. UBC's Marek Radzikowski placed third overall, continuing a long-standing UBC record of success in this competition.

UBC also has an extensive liaison program with high school students in the province. This year, two B.C. high school students coached at UBC were selected as members of a team of five representing Canada at the 17th International Physics Olympiad.

UBC's expertise in physics is evident in the strength of the faculty members who are past winners of the Canadian Association of Physicists competition. In 1961 Douglas Beder, then a McGill University student, won first place. He has been a member of UBC's physics department since 1968.

In the same year, a UBC student, Walter Hardy, won second place. Dr. Hardy is the principal scientist in a research team that has just built a new atomic clock -- the world's first hydrogen maser operating at one half degree above absolute zero temperature.

In 1967, Dr. William Unruh, then a student at the University of Manitoba, placed first. Today, cosmologist Dr. Unruh is directing an international research project into the origin and future of the universe. This project is funded by the Canadian Institute for Advanced Research.

In 1976, UBC student Lorne Whitehead took third place. As a graduate student at UBC, he invented the "light pipe", first conceived to provide "cool" light in temperature-sensitive environments. The light pipe's potential was recognized by exhibit designers, who have found many innovative uses for it at Expo 86. Lorne Whitehead is now president of TIR Systems, the company manufacturing his invention, and is studying for his Ph.D at UBC.

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Two B.C. high school science students are among five students selected to represent Canada at the 17th International Physics Olympiad to be held in London, England, July 13 to 20.

Bryan Feir of St. Michael's University School in Victoria and Hy Tran of Vancouver's Sir Charles Tupper Secondary were chosen in

a national competition for the Canadian team.

Bryan Feir, who placed first among Canadian students in the competition, was also selected to represent Canada at the International Mathematics Olympiad being held at the same time next month in Warsaw. He has chosen to compete in the Warsaw event rather than in the physics competition in London.

The 15 B.C. students who competed nationally were coached at UBC before the final selection of the five-member Canadian

team was made. Coordinating the coaching was Dr. Michael Crooks of UBC's Physics Department.

"B.C. students did extremely well," said Dr. Crooks. "Eight of the top sixteen Canadian students in the national competition were from this province."

"This is a remarkable achievement, considering that B.C.'s population is only one tenth that of Canada's. It's a credit to the calibre of science teaching in our high schools."

Researcher produces guide to Canada's legal records

Dr. DeLloyd Guth, an associate professor in UBC's Faculty of Law, has received a \$62,205 grant from the Social Sciences and Humanities Research Council to produce a comprehensive guide identifying all existing local, provincial and national legal records in Canada. When completed, it will be the first document of its kind produced anywhere in the world.

Judicial, police, corrections and lawyers records dating from the earliest times to the present will be cited in the guide, which will be produced in four phases over the next four years.

Assisting Dr. Guth in the Alberta portion of the survey is Prof. Louis Knafka, a distinguished historian from the University of Calgary. Dan Aberle, a third-year UBC law student, is helping to computerize the data collected by Dr. Guth.

"Legal documents contain a wealth of information about Canadian society, both past and present," says Prof. Guth. "The goal of our project is to make this information accessible not only to members of the legal profession, but to all Canadians and, no doubt, to foreign researchers as well."

Phase One of the project, scheduled for completion by next summer, will focus on legal material found in B.C., Alberta, Saskatchewan, Manitoba and the Yukon. Dr. Guth will then extend the survey to Ontario, the Maritime provinces and Quebec.

A paperback volume will be produced for each of the four phases, and a unified hardcover volume for all of Canada will be published at the project's completion.

"The guide will list the location of all legal records currently in use, in storage and in archives, the volume of material available and the procedures and rules of access for each of the documents," says Prof. Guth. "Many of the

documents, particularly police, RCMP and corrections records are very sensitive. It's important to include specific information on when and how material can be released.

"The guide will prove invaluable to government researchers, historians, lawyers, sociologists, journalists and the ordinary citizen interested in documentation for a particular case or for more general legal research."

Prof. Guth, one of North America's leading legal historians, was recently appointed Canadian Secretary of the Selden Society, the prestigious English history society founded in 1887. It is the first time the society's Council in London has appointed a member from outside the Toronto area to the position.

Dr. Guth's appointment began June 1, when he took over from Dr. C. Ian Kyer, a member of the law firm of Fasken and Calvin in Toronto. All Canadian operations of the Selden Society will now be administered from UBC's Faculty of Law.

Mini-documentary wins CCAE award

A television mini-documentary produced by UBC's Community Relations Office was selected as Best Audio Visual Package in the Canadian Council for Higher Education's 1986 awards program.

The organization recognizes outstanding achievement in communications by information, public affairs and media relations offices, and development and alumni departments in Canadian universities and colleges.

The award-winning entry was a pilot for a proposed series of mini-documentaries that would highlight the work of UBC faculty engaged in various areas of research and

expertise. The objective of the series would be to raise the profile of the University throughout B.C., and to draw attention to the tremendous contributions UBC makes to the social, cultural and economic life of the province.

The pilot explored the impact of computers and artificial intelligence on our lives, and featured interviews with faculty members from computer science, fine arts, music and philosophy, with an introduction by Dr. David Suzuki.

The Community Relations Office received a very positive response to the program during pilot testing on CBC affiliate stations throughout B.C. this spring.

Summer at UBC - something for every taste

UBC is the place to be this summer, with activities ranging from tennis, swimming and racquet sports to Sunday teas, outdoor concerts and summer stock theatre. Listed below are some of attractions and upcoming events on campus. Make UBC a part of your summer!

TOURS

◆ **FREE GUIDED WALKING TOURS** of the campus are offered weekdays at 10 a.m., 1 p.m. and 2:30 p.m. by UBC's Community Relations Office. Tour highlights include the Geology Museum, the Main Library, the Aquatic Centre, the unique Sedgewick underground library, the Rose Garden and more. To book a tour, call 228-3131.

◆ See the latest in dairy agriculture research at UBC's **DAIRY CATTLE TEACHING AND RESEARCH CENTRE**. Free tours offered weekdays throughout the summer. For details, call 228-4593.

◆ Visit **TRIUMF**, the world's largest cyclotron, where sub-atomic particles are created for use in leading edge research and cancer therapy. Free tours offered twice a day, Monday through Friday. To book a tour, call 222-1047.

◆ At the **UBC OBSERVATORY** you can view solar flares, stars and sunspots and see equipment used to monitor seismographic activity. For details, call 228-2802.

◆ **ARCHEOLOGICAL TOURS**. Public tours of a UBC archeological dig at Spanish Banks are staged daily between 9:30 a.m. and 3:30 p.m. until Aug. 15. The site is believed to have been a seasonal camping ground used by coastal Indians between 400 B.C. and 400 A.D. For details, call 873-5958 or 430-8327.

◆ UBC's 5,157-hectare **RESEARCH FOREST**, located in Maple Ridge, is a beautiful spot to spend a summer day. You can explore the forest trails on your own, or take a guided tour with a professional forester. For information and directions, call 463-8148.

ATTRACTIONS & ENTERTAINMENT

◆ **UBC's MUSEUM OF ANTHROPOLOGY** houses one of the most impressive collections of Northwest Coast Indian artifacts in the world. The museum sponsors special exhibits, programs and events throughout the year. Currently on display is the exhibit **Jack Shadbolt and the Coastal Indian Image**. **Bill Reid: Beyond the Essential Form**, an exhibit of works in gold, silver, wood and other media, begins July 16. Open Tuesday through Sunday. Call 228-5087 for details.

◆ Minerals, fossils, even an 80-million-year-old **Lambeosaurus** dinosaur skeleton are on display at **UBC's GEOLOGY MUSEUM**, located in the foyer of the Geological Sciences Building. An impressive collection of fossils and crystals are on sale at the Collector's Shop. Open weekdays from 8:30 a.m. to 5 p.m. Call 228-5586 for details.

◆ The **FINE ARTS GALLERY**, located in the Main Library, sponsors exciting exhibits of traditional and contemporary art. On display until Aug. 15 is **Variations on Hodler: Recent Paintings by Allan Mackay**. Open 10 a.m. to 4 p.m. weekdays. Call 228-2759 for information.

◆ A visit to UBC's **ASIAN CENTRE** is the next best thing to a trip to the Orient. Adjacent to the Japanese Nitobe Garden, this spectacular building is a major Vancouver centre for Asian activities. On display until Aug. 1 is **East Weds West**, an exhibit of watercolors and acrylics by William Allister. The exhibit is open daily from 11 a.m. to 6 p.m. The Japanese Bell Tower at the entrance to the centre is a must for photographers. Call 228-2746 for details.

◆ **FREDERIC WOOD THEATRE** stages year-round performances of traditional and experimental theatre. **The Komagata Maru Incident**, a play by Sharon Pollock, continues until July 12. **Dogg's Hamlet/Cahoot's MacBeth** by Tom Stoppard opens July 23 and continues until Aug. 2. For information and reservations, call 228-2678.

◆ **OLDE ENGLISH TEAS** are offered every Sunday afternoon at Cecil Green Park, a beautiful turn-of-the-century mansion overlooking Georgia Strait. Sittings are at 1 p.m., 3 p.m. and 4:15 p.m. Reservations (228-2018) are recommended.

◆ Take a stroll through UBC's beautiful **BOTANICAL GARDEN**. The Main Garden, located on Stadium Road, features many specialized garden areas and a Garden Shop with unique gift items. The Japanese Nitobe

Garden, located behind the Asian Centre, is a visitors delight with its delicate landscaping and authentic Japanese teahouse. Call 228-4208 for hours.

◆ There are indoor and outdoor musical events throughout the summer at UBC. For details, call 228-3131.

KEEP FIT!

◆ **UBC'S AQUATIC CENTRE**, open daily for public swimming, features two 50-metre indoor and outdoor pools, saunas and steam rooms, a whirlpool and a complete fitness centre. Call 228-4521 for 24-hour pool information.

◆ Tennis enthusiasts are invited to make use of the extensive indoor and outdoor tennis facilities (including grass courts) at UBC's **TENNIS CENTER**. Club memberships, a pro shop and year-round lessons available. For more information, call 228-4396.

◆ If you'd like to improve your golf swing, practise your hockey skills or even brush up on your fencing moves, the **COMMUNITY SPORTS PROGRAM** at UBC can help. UBC offers a wide range of sports programs for children and adults throughout the summer. Call 228-3688 for details.

◆ Squash and racquetball facilities are available year-round at the **THUNDERBIRD WINTER SPORTS CENTRE**. For bookings, call 228-6125.

UBC CALENDAR

Calendar Deadlines.

For events in the period Aug. 7 to Sept. 13, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, July 31 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

MONDAY, JULY 14

Neuroscience Discussion Group. Primate Models of Basal Ganglia Disease. Dr. Alan R. Crossman, Anatomy, University of Manchester. For further information, call Steve Vincent at 228-7038. Room 2N A-B, Psychiatry Unit, Health Sciences Centre Hospital. 12 noon.

Vancouver School of Theology Lecture.

THE WORD AND THE WORD. Dr. Keith Bridston, Yale Divinity School. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

WEDNESDAY, JULY 16

Vancouver School of Theology Lecture.

Aboriginal Nations in North America's Future: A Christian Perspective. Dr. Terry Anderson, Vancouver School of Theology. Chapel of Epiphany, Vancouver School of Theology. 7:30 p.m.

Religious Studies Benefit Lecture.

Ramses II: The Man and His Times. Admission is free, but donations will be accepted for the department's Ecumenical Research Scholarship. Cheques can be made payable to the University of British Columbia. For more information, call 228-2515. Room 104, Lasserre Building. 8 p.m.

FRIDAY, JULY 18

Geography Lecture.

The Implications of Foreign Investment in China. Dr. F. E. Ian Hamilton, London School of Economics and Political Science. Room 201, Geography Building. 12:45 p.m.

MONDAY, JULY 21

Applied Mathematics/ Mathematics Seminar.

Asymptotic Solutions to Differential Equations. Dr. T. M. Dunster, Mathematical Sciences, University of Dundee, Scotland. Room 228, Mathematics Building. 2 p.m.

Vancouver School of Theology Lecture.

The Indian Ecumenical Movement: A Grass Roots Movement. Prof. Robert Thomas, University of Arizona. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

TUESDAY, JULY 22

Economics Seminar.

Public Ownership of the External World and Private Ownership of Self. John E. Roemer, University of California. Room 351, Brock Hall. 4 p.m.

WEDNESDAY, JULY 23

Vancouver School of Theology Lecture.

Native Rights and the Church: An Historical and Political Analysis. Archdeacon Ian MacKenzie, director, Caledonia Ministry Development Project. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

SUNDAY, JULY 27

Japanese Music Recital.

Recital of Japanese music by Wendy Bross Stuart. Sponsored by the Centre for Continuing Education. Free with garden admission. Nitobe Japanese Garden. 2:30 p.m.

MONDAY, JULY 28

Vancouver School of Theology Lecture.

Competing Concepts of Political Economy. Dr. Max Stackhouse, Andover Newton-Boston College. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

TUESDAY, JULY 29

Vancouver School of Theology Lecture.

God in the Post-Modern World: A New Dialogue Between Science and Faith. Prof. Charles Birch, University of Sydney, Australia. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

WEDNESDAY, JULY 30

Vancouver School of Theology Lecture.

Culture and Community: An Ecumenical Perspective. Dr. Peggy Way, Vanderbilt University. Chapel of the Epiphany, Vancouver School of Theology. 7:30 p.m.

NOTICES

Library Tours.

Tours of the Library are offered at 10:30 a.m. and 12:45 p.m. daily July 7 - 11. Meet at Main Library entrance. Tour lasts 45 minutes. Everyone welcome.

Stage Campus 86.

Stage Campus 86 presents **Dogg's Hamlet/Cahoot's Macbeth** by Tom Stoppard Wednesday, July 23 through Saturday, Aug. 2. Adult admission is \$5, student or senior admission is \$4. Monday performances are 2-for-1 adult admission. Curtain time is 8 p.m. For information and reservations, phone 228-2678 or drop by Room 207 of the Frederic Wood Theatre building.

Community Sports Program.

Keep the kids active this summer by enrolling them in UBC Community Sport Services Summer Sports Programs. A wide variety of camps offer everything from fencing to basketball. Call 228-3688 for details.

Get Into Golf.

Join UBC Community Sport Services golf lessons for adults. Basic and intermediate levels offered. Tuition waivers accepted. Call 228-3688 for details.

Exploring Johnstone Strait.

This exciting field study program is offered Aug. 17 - 21 through the Centre for Continuing Education and is co-sponsored by the UBC Museum of Anthropology, B.C. Provincial Museum and the Campbell River and District Museum. Accompanying specialists are Peter Macnair, anthropologist, and Dr. Michael Bigg, marine biologist. Fee: \$495 (\$475 for members of co-sponsoring museums) includes accommodation in Telegraph Cove, all meals Aug. 18, 19 and 20, ship charter aboard the MV Gikumi and tuition. The tuition portion (\$150) of the total fee is income tax deductible. Trip begins and ends in Telegraph Cove; assistance will be given to those requiring transportation to and from northern Vancouver Island. Join this whale-watching adventure and experience the natural and cultural history of the Kwakiutl's ancestral homeland. For further information and an application form, please call 222-5207.

Volunteers Wanted.

A study designed to treat Primary Chronic Insomnia is being conducted in the Psychology Department. Healthy people between the ages of 19 and 45 years who take an hour or more to fall asleep are eligible to participate. The purpose of the project is to develop non-drug therapies for insomnia sufferers. The study will compare a number of different relaxation treatments, including relaxation exercises and various relaxation environments. The treatments being used are not experimental, as they have all been reliably shown to induce a deep state of relaxation. What is new is the combination of treatments being used and their application to insomnia. To volunteer for this study, or for more information, please call Elizabeth at 228-8868.

Language Programs.

Three-week, non-credit morning programs in French begin July 14 and Aug. 5. All-day immersion programs begin July 14 and Aug. 5. Three-week, non-credit morning programs in Spanish, Japanese and Mandarin begin July 28. For more information, call Language Programs and Services, Centre for Continuing Education, at 222-5227.

FIRST CLASS MAIL

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