

UBC Reports

Volume 33 Number 2, January 22, 1987

New labs aid students

President David W. Strangway was on hand recently to officially open two new microcomputer graphics labs in the Civil and Mechanical Engineering Building. The labs will be used to teach computer-aided drafting techniques to first-year students.

The new labs were converted and equipped using a \$169,000 equipment grant made available to the University through the provincial government's Fund for Excellence in Education. Both labs are equipped with 27 IBM Personal Computers with full memory.

Microcomputers are now used routinely for engineering design work at all levels in the School of Engineering. When not in use for teaching the labs will be available for general use for engineering students.

Chemist double winner

Dr. Grenfell Patey of The University of British Columbia is one of four national winners of the prestigious E.W.R. Steacie Memorial Fellowships awarded by the Natural Sciences and Engineering Research Council (NSERC).

The research awards were presented by the Hon. Frank Oberle, Minister of State for Science and Technology, at a ceremony held in Ottawa on Jan. 13.

The Steacie Fellowships recognize outstanding achievements by scientists and engineers who are still at a relatively early career stage. Winners are relieved of teaching and administrative duties in order to concentrate full time on research.

Dr. Patey, who joined UBC in 1980, is a theoretical chemist whose work in the area of physical chemistry has earned him an international reputation. His research focuses on the chemistry of water and other liquids and solutions.

Dr. Patey was also named the 1986 winner of the Noranda Lecture Award of the Chemical Institute of Canada.

Other winners of the 1987 Steacie Fellowships are Dr. Luc Devroye of McGill University, Dr. Robert Kerrich of the University of Saskatchewan and Dr. Andre-Marie Tremblay of the University of Sherbrooke.

Update on editors

A recent informal survey of UBC faculty who volunteer their time to edit academic journals elicited responses from several other editors on campus. ('Editors on campus share similar tales--and woes', Nov. 20 issue). The head of the department of language education, Dr. Victor Froese, wrote to say, "I read with interest your piece on 'Editors on campus...' In fact, I wonder how many more journals are edited which were not mentioned in the article."

Dr. Froese is co-editor of *English Quarterly*, a publication dedicated to English theory, scholarship and research. A second publication designed for teachers of English, *Highway One* is edited by colleagues Dr. J. Belanger, Dr. R. Jobe, and Dr. Syd Butler. Both are official organs of the Canadian Council of Teachers of English.

In the department of Chemistry, Prof. Brian James has been section editor of *The Canadian Journal of Chemistry* since 1978, handling specialized papers on topics such as inorganic chemistry. He estimates he edits about 100 papers a year for this monthly publication.

Dr. James Trotter, also in the department of chemistry, is one of 15 co-editors of *Acta Crystallographica*, a physics and chemistry journal with an international readership.

The Community Relations Office would like to hear from other UBC faculty who act as editors for publications. Letters can be addressed to The Editor, UBC Reports, or call 228-3131 and leave a message.

Nominations invited

For the fourth consecutive year, the Vancouver YWCA is inviting nominations for the Women of Distinction Awards. Individuals or organizations may nominate women in any one of seven categories: arts and culture, communications and public affairs, community and humanitarian service, entrepreneur/innovator, health and education, management and the professions, and sport, recreation and fitness.

Last year's nominations attracted more than seventy entries and former UBC Women's Athletic Director, Marilyn Pomfret, was the 1986 winner in the sports category. The deadline for this year's nominations is Feb. 13; nominees will be recognized at a gala dinner at the Hyatt Regency, May 28. Further information and nomination forms may be obtained from the Vancouver YWCA at 683-2531.

Six weeks to go until open house

Call goes out to find student volunteers

If you haven't made plans for the weekend of March 6-8, now's the time to plan to join an anticipated 100,000 campus visitors to Open House '87. As UBC opens its doors for its largest Open House ever, it will be your chance to explore the many aspects of the University that you have yet to discover.

Have your academic or career pursuits curtailed investigating other areas that spark your interest? For instance, have you ever wondered how genes can be manipulated to reduce birth defects? Or, how films are made or short stories written?

Open House '87 will be an ideal time to become a curious observer and ask some of those questions you've been wanting to ask. All the faculties and departments are participating, developing programs that will not only show their accomplishments, but will also inform and entertain the viewer.

Many special events are also on the agenda. Open House will be launched with an unique Celebrity Alumni Concert and Auction, Thursday, March 5. Many well-known alumni are returning to UBC to participate in this gala and will also be sharing their time with Open House visitors during the three-day event. For example, one of Canada's six astronauts, Bjarni Tryggvason, will be on hand to speak with aspiring space explorers; and poet Earle Birney, journalist Allan Fotheringham and renowned scientist David Suzuki are among the guests who will debate the value of a liberal arts education in an

increasing high-tech world at a special panel discussion Friday, March 6.

Open House also provides a great opportunity to learn more about the cultural heritage and traditions of our neighbours on the Pacific Rim; the Asian Studies department and School of Music are hosting performances of Peking Opera, a rich and elaborate stage production which artfully combines traditional elements of song, drama, and movement; and Indonesian puppets, Japanese pottery and Chinese music are among the many displays planned in the Asian Centre.

From hot-air balloon rides to moot courts, from gold-panning to earthquake simulations, Open House will have something to please everyone -- and it's only six weeks away! If you haven't done so yet, now's the time to find out what your department is planning, and become involved. Volunteers are welcome in all areas, and are essential for a successful event. Students interested in acting as guides should get in touch with AMS Vice-President Rebecca Nevraumont at 228-3092. This is a great opportunity to share your experiences with perspective UBC students!

March 6,7,8, from 10 a.m. to 5 p.m. -- essential dates for your calendar. Contact your Open House faculty or student representative to learn more, or call Community Relations at 228-3131 for further information.



UBC President Dr. David W. Strangway greets provincial Minister of Advanced Education and Job Training, Stanley Hagen, during his first visit to the UBC campus Jan. 8. It was also the first time Dr. Strangway has had the opportunity to meet with the new minister informally, to share information about the University and its goals.

Clyne lecture stars famous journalist

Jeffrey Simpson, renowned journalist and political columnist for the *Globe and Mail*, is the visiting lecturer for this year's J.V. Clyne Lecture at the Vancouver Institute Feb. 7. Mr. Simpson's lecture topic will be "Patronage in Canada".

Faculty, students and staff are invited to a special noon hour lecture on Feb. 5 at 12:30 in Buchanan A100, where Mr. Simpson will speak on the issue "Is Quebec nationalism dead?"

Jeffrey Simpson has written extensively for publications such as *Saturday Night*, *Report on Business* Magazine, and the *New York Times*. His book *Discipline of Power*, won the Governor-General's award for non-fiction; his second book, a study of the role and history of political patronage in Canada, is scheduled for publication in 1988.

Educated at Queen's University and the London School of Economics, Mr. Simpson won a parliamentary internship scholarship before joining the *Globe and Mail* in 1973. From his Ottawa base, he covered municipal affairs, Quebec politics, and

national affairs. He was also the newspaper's European correspondent from 1981-1983, reporting from London, England.

During his stay in Vancouver, Mr. Simpson has been invited by the business community to speak to the Board of Trade, where he will talk on the implications of comprehensive federal tax reform. While on campus, he will meet with a large number of faculty and speak to student groups. In addition, Mr. Simpson will take part in a symposium on the uses of polling in politics, organized by the Centre for Continuing Education on Saturday Feb. 7.

The J.V. Clyne lecture series was created in 1985 to honour the former UBC chancellor, and is a unique program which brings world leaders in the fields of business, government, law and the arts to B.C. to give public lectures on campus and in the community.

Turn to Page Two see LECTURE

IF YOU ASK ME....

Money and freedom key to future



Prof. John Dennison

Prof. John Dennison has been a long-term observer and commentator on the role and impact of post-secondary institutions, particularly community colleges, in B.C. A professor in the department of Administrative and Adult Higher Education, he is co-author of the recent publication *Canada's Community Colleges: A Critical Analysis*. Prof. Dennison earned his B.P.E. and

M.P.E. from UBC, and his Ed.D. from Washington State University in 1967. He was appointed to a federal commission in 1978 to review and make recommendations about the education program in the federal penitentiary system.

In British Columbia some years ago, a university president, during an otherwise non-controversial dialogue on the future of his institution, remarked that universities really require only two things from government - money and freedom. It was a phrase which produced hardly a reaction in an era when post-secondary education enjoyed relatively high priority in the lexicon of public policy. Nevertheless, while the debate over those two often contradictory concepts, autonomy and accountability, has fluctuated in intensity over the past 25 years, the issue remains unresolved. In the light of current conditions in university funding, perhaps it deserves a new perspective.

Of course universities must be held accountable - and their accountability applies to a variety of constituencies in varying degrees. They are accountable to those students who qualify for admission--to provide an intellectual experience of high quality which extends well beyond mechanical accumulation of knowledge and skills. They are accountable

to the wider community--to ensure that university graduates are critical and creative in their thinking, competent in their professions, and disciplined in their judgment. They are accountable to the elected government of the province--to provide a cadre of talented individuals who will challenge the status quo, constructively criticize conventional practice in their chosen fields, and hence ensure that the province is on the front edge, rather than the tail end, of progress.

Universities are also accountable for their contribution to economic growth within the society that supports them. For this province such a goal is achieved, not through simple exploitation of material resources, not even from the extraction of coal or tourist dollars, but through the cultivation of the most valuable asset of any progressive and democratic society - the intellects of the young and the motivated among its members.

To attain the highest levels of accountability, universities must be provided with adequate human and material resources, not the least being a library which provides a rich source of accumulated and contemporary knowledge. Above all else, the university must be able to set its academic goals, based not upon the political, economic, or social priorities of the period, but upon the continuing needs of a complex and evolving society. It is through its intensive and objective search for

cultural understanding, and through the discipline of scientific enquiry, that the university is best equipped to gauge these needs.

Excellence in research demands a long-term commitment of resources, based upon the complexity of the process, rather than upon the immediate value of the product.

Excellence in teaching is possible only within an atmosphere of free enquiry by teachers who place a higher value upon the intellectual growth of their students than the needs of the marketplace.

All of this argument leads to one inescapable conclusion - that accountability and autonomy are linked to such an extent that one is dependent upon the other. In a free society, universities can provide an unmatched resource to every component of that society, but only if they are free to make the critical decisions which determine their ability to do so.

If You Ask Me features interviews with UBC faculty or staff on a controversial issue which relates to the university campus. Anyone interested in being interviewed, or who knows someone whose views would be of interest to the campus community, please contact The Editor, UBC Reports.

Yum Yums celebrates New Year's festivities with feast

According to the Chinese calendar, January 29 marks the beginning of the Year of the Rabbit. And Chinese astrologers say it will be a year of calm, rest and congeniality. New Year celebrations at Yum Yums in the Old Auditorium will run from Jan. 27 to Jan. 30, during which time Food Services will give out fortune cookies, Chinese tea and red 'good fortune' envelopes stuffed with good luck candies.

Yum Yums has been offering a Chinese food menu for the past 18 years. The cafeteria re-opened in 1968 under present manager, Mary Ip, who previously owned a restaurant in Kowloon, Hong Kong.

Yum Yums is located in the Old Auditorium which was built in the 1920's. It was the first cafeteria on campus--affectionately known as "the Old Caf"--and a room at the back of the cafeteria served as the faculty dining room. As Food Services Business Manager, Shirley Louie recalls, the cafeteria service was closed in 1968 and banks of vending machines were

installed.

Customers seldom had sufficient change to operate the machines and it was necessary to employ a person to distribute change and keep the premises tidy. Gradually more staff and services were added and the vending machines disappeared.

In 1969 the University administration had plans to convert the Old Auditorium into either warehouse or office space. Shirley Louie stepped in to retain it as a food service. "We had no budget, but we managed to get \$38 worth of paint to redecorate the interior, and I borrowed equipment from my cousin who owned a restaurant at the PNE to install a Chinese cooking unit in the kitchen." Ms. Louie said.

Yum Yums hasn't looked back since and Chinese New Year has become an annual tradition. By the way, check those red "good fortune" envelopes carefully this year--some of them will contain coupons for a free menu item.



Queenie Tsang serves Yum Yums special Chinese New Year's menu.

Asian expert to head international office

UBC's increasing involvement in research, development projects, and faculty and student exchanges at the international level has led to the recent appointment of a coordinator of international affairs. Mr. Larry Sproule will become the first director of the new International Liaison Office Feb. 1.

Mr. Sproule comes to the University from the International Development Office of the Association of Universities and Colleges of Canada, where he was responsible for facilitating university exchange programs between Canada and China. His experience in international affairs is extensive; he studied in China under an exchange scholarship and later taught in Thailand for several years on the CUSO program. He has given guest lectures at all three B.C. universities on China, Sociology and Asian Studies.

Prior to working with AUCC, Mr. Sproule was at UBC's Institute of Asian Research, where he helped to promote the University's expertise as a Pacific Rim research and resource centre. In addition he has served as an accompanying advisor to a number of visiting delegations to Canada, the United States, and Latin America.

Mr. Sproule speaks seven languages including fluent Mandarin. He has an M.A. from Simon Fraser University, a B.Comm. and B.A. from the University of Alberta, and has been a post-graduate student in modern Chinese history at UBC.

As director of the International Liaison Office, Mr. Sproule is responsible for promoting and seeking funds for the University's international projects. The office will act as a

clearinghouse of information relating to international activities, providing the information and assistance needed to develop cooperative ventures with overseas institutions. Mr. Sproule will be available to faculty to provide assistance through the maze of funding agencies and policies, and help develop budgets and proposals.

The director of the International Liaison Office will report directly to the Academic Vice-President, Dr. Daniel Birch. His position will be funded from overhead generated by international development project contracts.

One of the most visible signs of UBC's international involvement is in overseas development projects. The Faculty of Education, for example, is providing the expertise to run a literacy program broadcast via radio and television in Bahia, Brazil. In this CIDA funded project, UBC faculty develop the human resources needed to maintain a program of long-distance education. In another project, the World Bank sponsors Indonesian principals and education administrators to take a management training program at UBC. The Faculty of Commerce and Business Administration has a major management training program in China.

UBC has more than 30 faculty exchange agreements with foreign universities, in countries such as Poland and Korea, which facilitate the exchange of students as well as faculty. UBC is also involved with many programs that bring foreign students to the campus. These students make up 18 percent of enrollment at the graduate level, and outstanding international graduate students are actively encour-

aged to come here.

In addition, UBC representatives regularly travel to overseas destinations as members of formal delegations, and an increasing number of delegations from other countries include the University on their itinerary. The International Liaison Office will assist in protocol and arrangements.

Dr. Birch says the scale of international activities has reached the point where it is necessary to provide for a full-time coordinator. "People at the departmental level have sometimes not been aware of the opportunities available to them," says Dr. Birch. "As well, our international involvement is probably not as extensive as it could be. A pool of university expertise is going untapped because there hasn't been a means to make overseas agencies aware of it."

Dr. Birch adds that the University's involvement in any international program has to provide mutual benefits. "We try not to get involved in projects which are merely overseas service," Dr. Birch says. "We try to balance the need in the other country with the expertise available at UBC, the benefit to our academic programs and the opportunities for research."

LETTERS

Letters are welcome and may be on any topic of interest to the university community. Please be brief, no more than 150 words, and send to The Editor, UBC Reports.

LECTURE continued from Page One



Journalist Jeffrey Simpson

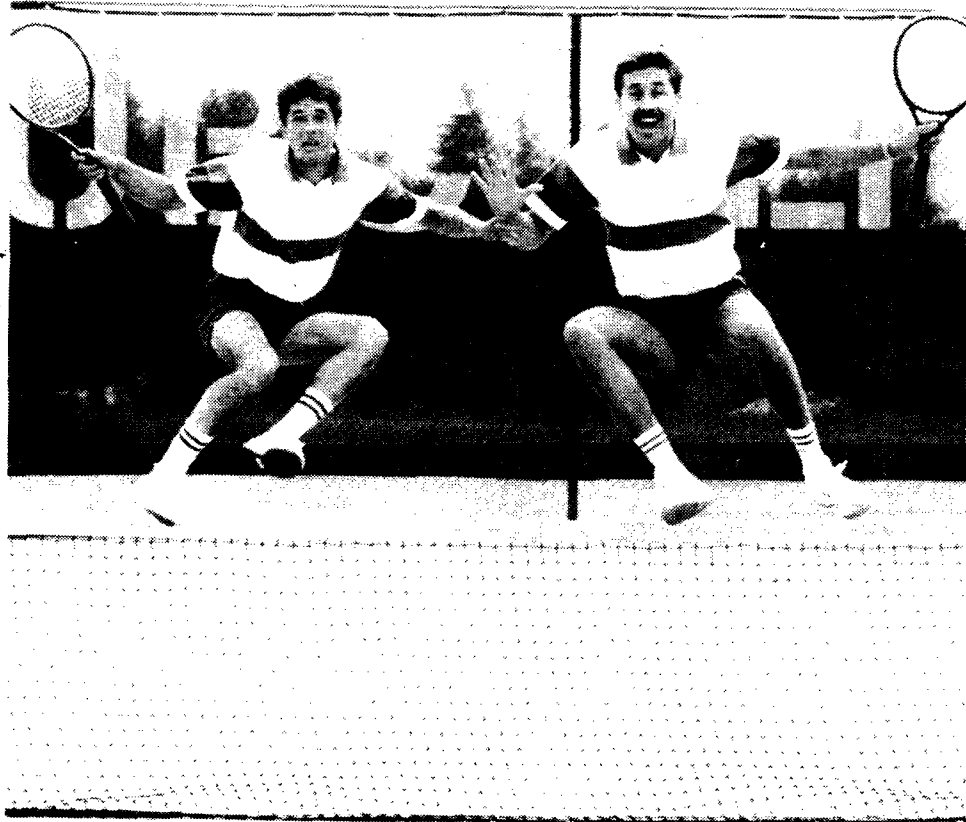
The series is directed by a distinguished group of people from the private and public sectors including: the Lieutenant-Governor of B.C., the Chief Justice of B.C., the Chairman of the Vancouver Board of Trade, the Chancellor, the Chairman of the Board of Governors, the President of the University, the Deans of the faculties of Arts, Commerce and Law, and the President of the UBC Alumni Association.

J.V. Clyne served as Chancellor of UBC until his retirement in 1985. He was at various times in his career, judge of the B.C. Supreme Court, Chairman and CEO of MacMillan Bloedel, Director of several other major Canadian corporations and Chairman of the Canadian Maritime Commission. He also headed three Royal Commissions.

The first guest of the J.V. Clyne series was The Honourable Geoffrey W. Palmer, the Deputy Minister of Justice of New Zealand.

CELEBRATE THE TEAM

Tennis centre well-kept secret



The dynamic team who run UBC's Tennis Centre, Mike Kerr and Patricio Gonzales.

NITEP so successful others follow suit

Since the Native Indian Teacher Education Program (NITEP) opened its doors in 1974, more than 500 Native people have registered in the program. Many of those students now work in the B.C. school system as certified teachers, or as tutors, language teachers, education coordinators, teacher's aides, or in related professions. Others completed all or part of the NITEP program and chose an alternate career, moving into post-secondary education in a different field.

"Our directive is to prepare Native Indian teachers, but there is a need for Native Indian people in all professions," says Jo-Ann Archibald, supervisor of NITEP. "The program makes Native people aware of what the university has to offer. It provides access for them to post-secondary education, not just teacher training."

Students enrol for the first two years of the four-year NITEP program at field centres in Kamloops, Prince George, Chilliwack or Victoria. In each of the two years, they combine academic courses with three months of practical training in local schools. "The program stresses assessment," Ms. Archibald said. "Students have a chance to see if they are suited to an academic program and to decide if they want a teaching career." The training provided in the first two years allows students to become para-professionals, such

as teacher's aides.

An important feature of NITEP is the support services it provides. "Field centres form an extended family and create a supportive group," Ms. Archibald said. "In addition, the Native Indians working and training in the field centre are good role models for Native Indian children."

The opportunity to study at a field centre also means students don't have to relocate immediately. "Our students are generally older than other UBC students, they have had more living or working experience and many of them have community or family responsibilities," Ms. Archibald explains. At UBC, the NITEP building serves as a resource centre for Native Indian students. It also provides a library, lounge, and social activities.

Among the 18 Native teacher education programs in Canada, UBC has graduated the most Native Indian teachers. In fact, the NITEP program has been so successful that other UBC faculties and departments are proposing similar initiatives. The Department of Educational Psychology and Special Education, for example, plans to develop a training program for Native Indian teachers to teach the hearing impaired.

This September the NITEP program will become a five year program, reflecting changes in the faculty of education curriculum.

Tennis--it's the sport of a lifetime, and few places in Canada have as good programs as our own University. No longer just a well-kept secret for those who live, study and work west of Blanca, UBC's Tennis Centre is fast becoming Canada's most internationally celebrated tennis facility with its tournament-ranked and experienced professionals, acclaimed guest instructors (such as California's renowned coach Vic Braden), and overseas tours and clinics, such as the 1985 trip to Guangdong Province at the special invitation of the People's Republic of China.

Under the direction of Patricio Gonzalez, the centre has been playing an integral role in the tennis community of B.C. since 1980. One of Mr. Gonzalez's first decisions was to hire top ranked Canadian player, Mike Kerr, the youngest professional coach ever to work in the U.S.A. college circuit, to form a competitive UBC men's tennis team. Together Mr. Gonzales and Mr. Kerr have incorporated a wide variety of tennis programs for beginners, intermediate and advanced players.

Operating as a revenue-generating ancillary service under the Department of Physical Education, the centre provides extensive junior programs, Varsity men's and women's teams, winter and summer tennis clubs, all-year round play in eight indoor courts and year-round tournaments. UBC is also the only university in Canada to have grass courts, providing a special opportunity for players to prepare for world-class grass tournaments such as Wimbledon.

The centre has a strong outreach program through its clubs, court-rental program,

public-oriented instructional programs and numerous tournaments. This year the centre will host the B.C. High School Championships, the 3rd Annual Fall Intercollegiate Tournament, the ICHPER/CAPHER Conference Tennis Tournament and the B.C. Closed Wheelchair Championships. Last year, 3,700 tennis enthusiasts participated in the centre and this year Mr. Gonzales estimates over 4,000 participants will enjoy the facility.

The centre has easily surpassed its original goal of "organizing a structure whereby all players can realize their full potential", and is now one of the University's leading emissaries for goodwill and community development in the local, national and international scene.

For more information call 228-4396, or drop in at Osborne Centre Unit 2, located between the Thunderbird Wintersports Centre and the Tennis Bubble.

Library features in first report from President

UBC's Library, the second largest research library in Canada, is the focus of President Strangway's first report as President of UBC, published last week.

"I have chosen to focus on the Library for my first report because its concerns are critical to the health and strength of the University," says Dr. Strangway. "Among its superb collections are areas of national and international significance providing a unique and vital resource for the people of British Columbia, from university researchers and senior professionals to private industry and consultants."

In the report, Dr. Strangway outlines the rich history of the Library, looks at the collections as they are today, and details the challenges that have to be faced if the Library is to be maintained to serve the needs of future generations. Copies of the report can be obtained through Community Relations.

Education program changes

Students planning to earn their B.Ed. degrees at UBC will enter a new curriculum in September. The changes in the teacher education program were approved by Senate last summer and modify a curriculum that has been in place since the Faculty of Education was formed in 1956.

"We will be implementing the revised program in stages over the next two years," says Dr. Murray Elliott, Associate Dean (Teacher Education) and chairman of the Faculty of Education's curriculum committee. During the next year only, the faculty will, in addition to admitting students to the revised elementary and secondary programs, continue to admit some students with two years of post-secondary education to the four year elementary education program. In 1988 all new admissions will be to the revised programs.

The new curriculum will take a total of five years. Students entering elementary education will be required to have at least three years of postsecondary education. They will then follow a two year teacher education curriculum, including a four month practicum, to qualify for their degree and teaching certificate.

Prospective secondary school teachers will have to obtain a bachelor's degree before being admitted to the Faculty of Education. They will follow an Education program consisting of three consecutive terms, and will spend most of the second term completing their practicum requirements in a classroom. By the end of their three terms--one full calendar year--students will have qualified for their teaching certificates, but will need another four and a half units to complete the B.Ed.

"They can, in theory, abandon the B.Ed. degree after qualifying for a teaching certificate," says Dr. Elliott, "but we expect most students will complete their degree requirements." Students will have four years within which to do so.

"The new curriculum provides for a strengthened academic background for elementary school teachers," says Dr. Elliott. The new program incorporates many recommendations from the 1969 report from the Committee on the Future of the Faculty of Education

and responds to the concerns expressed in the Ministry of Education's recent report "Let's Talk About Schools".

"It's also a natural extension of evolutionary changes that have gone on over the past few years and makes better use of our scarce resources," Dr. Elliott says. "The new curriculum takes into account the value educators see in an extended practicum and better prepares teachers for dealing with special needs students in the classroom."

Learn to speak a foreign language

One of the most obvious ways in which multiculturalism is expressed on campus is through the variety of credit and non-credit language courses available to faculty, students and the public.

If you intend to spend a vacation in Mexico this year or travel through Europe, the Centre for Continuing Education probably has the course for you. The centre offers non-credit conversational programs in French, Spanish, Japanese, Mandarin and Cantonese. If you prefer to combine learning a language with a holiday, stay with a Mexican family in Cuernavaca and enjoy two weeks of immersion in the language and culture. Or discover Quebec culture in a French language immersion in Montreal.

More than 20 modern and classical languages are available to UBC students as credit courses, including Spanish, Swedish, Slovak, Sanskrit, Portuguese, Polish, Hebrew, Hindi and its cousin Urdu. There's even an introductory course in Old Icelandic offered by the department of Germanic Studies.

For the increasing number of international students on the UBC campus, the English Programs division of the Language Institute offers a range of specialized non-credit English courses designed to meet their various needs. Students can enroll for college preparation, for example, or simply improvement of speaking skills.



NITEP students often have family or community responsibilities.

Operating Fund

The University
General Purposes

The University of British Columbia General Purpose Operating Fund Budget 1986/87 (\$000)

	Budget Nov. 86
INCOME	
Provincial Grants	163,093
General Operating	14,136
University Adjustment Fund	
Subtotal	177,229
Fees	
Tuition	34,812
Non-Credit	6,637
Miscellaneous	452
Subtotal	41,901
Other	
Interest on Short-Term Investments	3,240
Sundry	927
Subtotal	4,167
TOTAL INCOME	223,297
EXPENSES	
Academic	145,693
Non-Credit Activity	7,571
Academic Services	22,286
Administrative Services	11,891
General	3,727
Plant	25,310
Student Services & Awards	6,239
Designated Purposes	4,566
Internal Cost Recoveries	(952)
SUBTOTAL	226,330
Less: Expenses paid from prior year's appropriations	(1,319)
TOTAL EXPENSES	225,011
Excess of Expenses over Income	1,714
Less: Inter-Fund Transfer	(100)
	1,614
Less: Cash savings to be recovered	(1,614)
Balance	0

Table 1.0
Academic

	Academic Salaries	Other Salaries	Benefits	Non- Salary Items	Cost Recov.	1986/87 Budget
Agricultural Sciences	2,734	1,287	496	702	(465)	4,754
Botanical Gardens	45	441	60	48	(60)	534
Applied Science						
Engineering	6,322	2,437	1,080	949		10,788
Architecture	753	105	106	38		1,002
Nursing	2,028	328	290	69		2,715
Arts	26,007	2,869	3,559	1,203	(387)	33,251
Commerce & Bus. Admin.	5,168	475	696	276		6,615
Dentistry	2,310	1,105	421	679	(441)	4,074
Education	10,776	1,551	1,519	1,077	(78)	14,845
Extra-Sessional Studies	1,651	46	207	134		2,018
Forestry	1,806	648	302	563	(369)	2,950
Graduate Studies	1,493	516	248	242		2,499
Guided Independent Studies	103	76	22	42		243
Health Sciences	183	179	45	126		533
Law	2,314	339	327	142		3,122
Medicine	15,908	5,006	2,678	1,177	(182)	24,487
Pharmaceutical Sciences	1,422	219	202	91		1,934
Research Committee Grants				200		200
Science	18,963	4,713	2,672	2,308		26,656
Early Terminations	2,276		199			2,474
TOTAL ACADEMIC	100,241	22,340	15,028	10,066	(1,982)	145,693

Table 2.0
Non-Credit Activity

	Academic Salaries	Other Salaries	Benefits	Salary Items	Cost Recov.	1986/87 Budget
Non-credit Courses						
Agricultural Sciences	9		1	24		34
Commerce & Bus. Admin.	358	599	118	1,175		2,250
Guided Independent Studies	12		1			13
Health Sciences		257	32	716		1,005
Social Work	26	5	4	6		41
Centre for Continuing Ed.	1,900	827	336	1,165		4,228
TOTAL NON-CREDIT ACTIVITY	2,305	1,688	492	3,086	0	7,571

Table 3.0
Academic Services

	Other Salaries	Benefits	Non- Salary Items	Cost Recov.	1986/87 Budget
Animal Care Centre	239	29	(34)		234
Computing Centre	2,838	350	1,969	(220)	4,937
Media Services	410	51	16	(239)	238
Lectures Bureau			5		5
Libraries					
Acquisitions			4,742		4,742
Operations	9,743	1,201	964	(216)	11,692
University Press	280	35	90	(97)	308
VCUMBS			130		130
TOTAL ACADEMIC SERVICES	13,510	1,665	7,882	(772)	22,286

Table 4.0
Administrative Services

	Other Salaries	Benefits	Salary Items	Cost Recov.	1986/87 Budget
Associate V-P Student Services	68	8	22		98
Budget, Planning & S M	349	43	15		407
Campus Mail	196	24	12		232
Community Relations	337	42	469		848
Development Office	282	35	143		460
Financial Services	1,611	199	146		1,956
Information Systems Management	1,117	138	239		1,494
Internal Audit	168	21	4		193
Occup. Hlth. & Safety	231	28	13		272
Personnel Services	837	103	123		1,063
President's Officer	205	25	79		309
Purchasing	493	61	42		596
Registrar's Office	1,447	178	507	(7)	2,125
Vice-Pres. Academic	552	68	259		879
Vice-Pres. Admin. & Finance	211	26	151		388
Vice-Pres. Research	323	40	82		445
Early Terminations	120	6	0		126
TOTAL ADMINISTRATIVE SERVICES	8,547	1,045	2,306	(7)	11,891

The final operating budget of the University for 1986/87 was approved at the last meeting of the Board of Governors, Dec. 4, 1986. The summary table reflects the total of all general purpose operating fund income and expense. Each of the following tables detail the broad categories of expense. Academic expenses, for example, are outlined in table 1.0, non-credit activity in table 2.0 and so on. In considering the 1986/87 budget, the following points should be noted.

1986/87

- Through removal of faculty positions, academic salary budgets have been reduced by 1% or \$894,000 to cover the unbudgeted component of the 1985/86 faculty salary arbitration award.
- Retrenchments committed to in 1985/86 for 1986/87 implementation have been removed from the recurring expense base.
- A substantial proportion of the one-time prepaid fees for management consulting studies are being offset by identified recurring reductions in administrative support unit operating budgets.
- To maintain its purchasing power at current levels, the Library's acquisition budget has been increased by \$562,000, composed of \$339,000 in new monies from the Fund for Excellence in Education and \$223,000 re-allocated from the salary portion of the Library's budget. The latter reflects the results of the management efficiency study

undertaken by the University's external consultants.

- Development activities will be funded at a level of \$425,000, of which \$145,000 represents fund campaign recoveries. Of the total, \$170,000 replaces those monies previously budgeted against the University Development Fund. This level of funding will permit achievement of the development goals and objectives approved by the Board of Governors.

Community Relations activities include both internal and external publications. The budget for this area has been increased by \$380,000 to support the level of activity reflected in the development goals and objectives approved by the Board of Governors.

- Administrative systems developments have been funded in part from base budgets (\$900,000 in 1985/86) but primarily from endowment income. While the base fund-

ing level associated with maintenance of existing systems and development of new systems is still being defined, there is a clear need for a substantial increase in operating base level funding above that presently provided. In recognition, the operating budget level for 1986/87 has been increased by \$500,000 with comparable increases anticipated in each of the next two years. This level of current and proposed support will provide for:

Budget 1986/87

of British Columbia
Operating Funds
(000)

**Table 5.0
General**

	Other Salaries	Benefits	Salary Items	Cost Recov.	1986/87 Budget
Alumni Association Grant			492		492
Ceremonies	36	4	68		108
Chancellor & Board	34	4	21		59
Consulting Fees			754		754
Fire Casualty Ins. Premium			1,146		1,146
Fire Protection-standby charges			47		47
Legal Fees			191		191
Miscellaneous Expenditures*	37	5	115		157
Moving Costs & Travel			75		75
Staff Maternity Benefits			74		74
Tuition Fee Benefits			125		125
University Functions			50		50
University Memberships			146		146
University Contingencies			303		303
TOTAL GENERAL	107	13	3,607	0	5,727

* (Includes Bank Exchange charges & Safekeeping of Securities, Faculty Club/University Social Centre, Triennial Elections, University Travel, Norman MacKenzie House, Temporary Employees Sick-time, and Performing Rights Organization.)

**Table 6.0
Plant**

	Other Salaries	Benefits	Salary Items	Cost Recov.	1986/87 Budget
Facilities Planning	86	11	26		123
Plant Admin. & Sched. Div.	559	69	37		665
Plant Custodial Div.	4,622	570	259		5,451
Plant Dept. Office	86	11	10		107
Plant Design & Construction	265	33	15		313
Plant Operations	940	116	31		1,087
Plant Trades & Utilities Div.	4,892	603	1,235		6,733
Plant Costs for Hospital Space			2,509	(2)	2,507
Other Purchased Services			152		152
Utilities			7,326		7,326
Traffic & Security	918	113	74	(268)	847
TOTAL PLANT	12,368	1,525	11,677	(260)	25,310

**Table 7.0
Student Services & Awards**

	Other Salaries	Benefits	Non-Salary Items	Cost Recov.	1986/87 Budget
Athletics Grants		140	526		666
Awards & Financial Aid Office	295	36	49		380
Graduate Fellowships			1,860		1,860
General*	119	15	10		144
Student Couns. & Resources Cnt.	433	53	39		525
Student Health Services	761	94	73	(737)	191
Undergraduate Scholarships & Bursaries			2,235		2,235
Women Students' Office	205	25	8		238
TOTAL STUDENT SERVICES & AWARDS	1,813	363	4,800	(737)	6,239

*(Includes Canada Employment Centre, Child Care Centre, International House, and Off-campus Accommodation)

**Table 8.0
Designated Purposes**

	Academic Salaries	Other Salaries	Benefits	Non-Salary Items	Cost Recov.	1986/87 Budget
Designated Purposes:						
Reserve: VP Academic	1,172	228		22		1,422
Reserve: VP Admin & Finance		69		38		107
Provision: Salary Increases	1,942	903	192			3,037
TOTAL OTHER	3,114	1,200	192	60	0	4,566

**Table 9.0
Internal Cost Recoveries**

	Other Salaries	Benefits	Non-Salary Items	Cost Recov.	1986/87 Budget
Research Contract Overhead				(952)	(952)
TOTAL INTERNAL COST RECOVERIES	0	0	0	(952)	(952)

Summary Table 10.0

	Academic Salaries	Other Salaries	Benefits	Non-Salary Items	Cost Recov.	1986/87 Budget
Academic	100,241	22,340	15,028	10,066	(1,982)	145,693
Non-credit Activity	2,305	1,688	492	3,086		7,571
Academic Services		13,510	1,665	7,882	(772)	22,285
Administrative Services		8,547	1,045	2,306	(7)	11,891
General		107	13	3,607		3,727
Physical Plant		12,368	1,525	11,677	(260)	25,310
Student Services & Awards		1,813	363	4,800	(737)	6,239
Designated Purposes	3,114	1,200	192	60		4,566
Internal Cost Recoveries					(952)	(952)
TOTAL UNIVERSITY	105,660	61,573	20,323	43,484	(4,710)	226,330

- further development of the financial systems begun last year.
- a new alumni records system designed to support the University's major fund raising campaign.
- redevelopment of the University's student systems including touch tone registration, records, academic program report, room booking and exam scheduling, student fees, etc.
- design of new facilities management systems.
- re-design of the human resources systems -- personnel, position control, payroll.
- design of the budgeting system.

- Academic computing will require a significantly increased level of funding to meet the continuing requirements of both faculty and students for teaching and research. To address local computing needs, \$500,000 was budgeted in 1986/87 with comparable increases anticipated in each of the next two years.

- The University is strongly committed to increasing its graduate student numbers over the next few years. We have budgeted \$500,000 in the base for 1986/87 and a further \$500,000 for 1987/88 for teaching assistantships and graduate fellowships.

- To encourage the pursuit of external funding for research activity and in recognition of research related overhead costs borne by individual units, it is desirable to return to faculties a portion of the contract overhead received by the University. This objective has been reflected in the operating budget with the allocation of \$315,000 representing 1/3 of the research overhead dollars earned in 1985/86.

- The move to place the Centre of Continuing Education on a full cost recovery basis was begun in 1985/86; the second phase will be implemented this year. For 1986/87, the Centre's budget will be \$4.228 million of which \$431,000 represents the University's contribution to direct costs. In addition, each Faculty with continuing education activities will be required to display projected revenues and expenditures in a separate budget category when detailed budgets are prepared. Policies are also being developed to ensure that all of the University's continuing education activities, irrespective of the organizational unit with which they are associated, pay a realistic portion of overhead charges incurred by the University on their behalf.

- An Office of International Coordination reporting to the Academic Vice-President is being created and will provide assistance in the area of international activities.

- Faculty salary increases (for merit driven career progress, merit and anomaly-inequity) have been funded at the level provided via the Fund for Excellence in Education. Should the amount finally agreed upon be greater than this, it will require a further reduction in the faculty complement.

- The Athletics/Recreation UBC/Sports Camp Budget is now set up as an ancillary operation. For 1986/87, the University's operating budget grant to this unit is \$618,000 which represents 34% of the Athletics/Recreation budget.

- Parking has been transferred to full ancillary status with no subsidy from university operating funds.

- Designated funding was also provided for the following two items which were not reflected in the General Purpose Operating Funds budget:

- The Excellence Fund provided to the three universities \$1 million for research in general areas of which our share was \$633,000.

- Provincial grants of \$1.25 million for operating and instructional equipment and \$2 million for instructional and administrative equipment were made to the three universities. From both grants, the University received \$1.97 million.

UBC reaches out to New West families



Prof. John Friesen (left) and staff of the New Westminster Counselling Centre.

AIDS study seeks answers

A team of UBC investigators will receive \$830,000 from the research arm of Health and Welfare Canada to continue what is presently the largest study of AIDS (acquired immune deficiency syndrome) in Canada. The team will receive the sum from the National Health and Research Development Program over a three year period. It is the second time the NHRDP has awarded funds to this study.

The study began in 1982, before the first case of AIDS had been reported in Vancouver, when a group of far-sighted doctors embarked on a project to investigate the abnormally high incidence of patients with swollen glands they were seeing in their practices. They began a program of patient monitoring and regular lab testing which soon determined that swollen glands were an early manifestation of the AIDS virus.

The Vancouver Lymphadenopathy-AIDS Study now involves a team of 12 UBC specialists and a study group of 600 homosexual men, about half of whom are currently infected with the AIDS virus. The study, based at St. Paul's Hospital, monitors the group with annual questionnaires, physical examinations, and blood tests, including the AIDS antibody test, in an attempt to understand the natural history of infection with the AIDS virus. It operates under strict confidential procedures.

"We are the oldest and largest study of this kind in Canada," said Dr. Martin Shechter, assistant professor in the Department of Health Care and Epidemiology, and the principal

investigator of the study. "Because of that fact we can provide some of the most comprehensive data available today on the natural history of infection with the AIDS virus."

Dr. Shechter estimates there are between 50,000 to 60,000 people in Canada who carry the AIDS virus. "The majority of those people may not know they are infected because the virus can be silent," said Dr. Shechter. "Our study says 18 percent of people who are infected with the virus will develop AIDS within four years. The fundamental question we are trying to answer is—why do people get AIDS after being infected?"

The results of the study will become important in implementing education programs to help prevent the spread of the AIDS virus. "Recently we have discovered that younger people are at higher risk of becoming infected AIDS because they are not modifying their behaviour as much as older people are," Dr. Shechter said. "This becomes important when education programs are implemented because it means that group needs higher targeting."

Dr. Shechter said the research team plans to expand the study group to 800 people and introduce state-of-the-art laboratory tests in cooperation with the Laboratory Centre for Disease Control in Ottawa. Dr. Shechter recently received a National Health Research Scholar Award from Health and Welfare Canada to support his research into AIDS and breast cancer.

Social stigma hides disease

One in 100 people contract the disease schizophrenia. That figure surprises many people, says Dr. Barry Jones, Director of the Schizophrenia Service at the Health Sciences Centre Hospital. "Schizophrenia is the third major health problem in Canada after cancer and heart disease," Dr. Jones said. "It also carries a social stigma. That's one reason why we're 20 years behind in medical research and funding."

Tragically, schizophrenia usually hits young people in their late teens or early twenties. It's caused by a chemical disorder in the brain, and while it can be controlled to some extent by drugs, schizophrenia is incurable. "It's a terrible debilitating disease and we know so little about it," Dr. Jones said.

Raising public awareness about schizophrenia is one major focus of the Schizophrenia Service. It has been open a little less than a year, and is the largest clinic of its kind in Canada. "We offer the most comprehensive treatment for schizophrenics in the country," Dr. Jones said. Prior to the opening of the facility, care of the schizophrenic patient was scattered through various institutions and resources. "Patients tended to be benignly neglected, partly because the disease is so misunderstood, and partly because of the lack of health professionals who are involved in

treating it," Dr. Jones said.

Within the few months of its operation, the service has generated a great deal of interest from community groups, health professionals and the government. "One focus of the Schizophrenia Service is to liaise with community groups and other organizations that see schizophrenic patients," said Dr. Jones.

In addition to providing an important outreach facility, the Schizophrenia Service is becoming a major research centre. "We have a big advantage over other hospitals who might want to offer this kind of service," said Dr. Jones. "At UBC our facilities for brain research are second to none, and we have every opportunity to study this number one psychiatric disease. And, being a campus based hospital, we also have the opportunity for collaborative inter-disciplinary research."

The Schizophrenia Service offers a program for residents in psychiatry and medical students, as well as specialized training for students in other health professions. "They're learning about the illness in a way that wasn't possible before," said Dr. Jones. "By having this kind of program at a university we are providing students with the expertise to deal with schizophrenic patients and gradually dispelling some of the misinformation surrounding the disease."

The idea of the family as a central institution in western society has been rediscovered, according to a professor of education of UBC.

Prof. John Friesen of the education faculty's Department of Counselling Psychology bases his optimism about the future of the family on two decades of research and public service, which includes the establishment, with departmental colleagues, of a counselling centre in New Westminster. The centre's professionals give assistance to those who need help in dealing with conflicts and other problems.

"In the last five or six years," Prof. Friesen said, "it's become increasingly clear that there has been a rediscovery of the family and its importance in the rearing of children. There appears to be no substitute for the family as a place for the expression of intimacy and the development of affiliative relationships."

Prof. Friesen emphasizes, however, that many of the families of the last two decades of the 20th century are radically different from those of the past.

Gone is the idea of the father as a remote, patriarchal figure who saw himself as the breadwinner and who left the day-to-day running of the home and the upbringing of children to his wife.

"In the last 20 years," he said, "there has been a radical shift in family structure characterized by women taking on second careers and the father assuming increasing responsibilities for running the home and rearing and nurturing the children. The distinctive differences between motherhood and fatherhood

have become less clear cut."

One of the major barriers to male acceptance of the new family situation is that men have not cultivated the expression of emotion and the bonds of community, Dr. Friesen said. "Men have learned the skills of logical thinking and producing in the work place but have tended to suppress emotional expression in family situations and in interpersonal relationships generally."

The changing attitude of fathers toward the family and the development of their children has emerged from interviews that Dr. Friesen, his colleagues and graduate students have conducted in recent years as part of "The Fathering Project."

The New Westminster Counselling Centre, a joint UBC-New Westminster School Board project established by Prof. Friesen and his colleagues a decade ago, operated five days a week under supervision by Prof. Friesen and other members of the Counselling Psychology Department. About 40 families a week visit the centre for sessions that may vary from a single meeting up to 20 weeks of counselling.

"We see families in conflict, single parents and individuals from all socio-economic groups as well as those who have problems arising from such things as alcohol abuse."

"In addition to providing a community service. We are able to add to our research data and provide graduate students with an opportunity to develop their interviewing and counselling skills. We get very positive community feedback from the service."



UBC animal scientist Dr. Kimberly Cheng looks over the latest batch of chicks hatched at UBC's Quail Genetic Stock Centre, the largest facility of its kind in North America.

Looking for nerve regrowth

As Rick Hansen nears the end of his wheelchair odyssey to raise funds for spinal cord research, his hopes and those of other disabled people with spinal cord injuries may well lie in research projects such as that of UBC zoology professor Dr. John Steeves. Dr. Steeves is currently working with chicken embryos to find out more about spinal cord injury and explore the possibility of stimulating regeneration in the parts of the nervous system which affect motor control.

Dr. Steeves said his work will provide researchers with a better understanding of the mechanism of nerve cell regeneration. "We would like to know why peripheral nerves in

the human body regenerate while those located in the spinal cord and brain do not," says Dr. Steeves. He is also studying the ability of embryonic birds and mammals to regenerate spinal cord nerve cells—an ability which is lost at birth.

"Until recently, spinal cord research has focused on post-traumatic care rather than a cure," said Dr. Steeves. "There was nothing we could do for people with spinal cord injury except to help them regain maximum mobility. Now we have more resources and techniques available to us, our focus is shifting to include the biological mechanisms of nerve cell regeneration."

PEOPLE



Kathleen Pichora-Fuller

UBC's first Outstanding Young Alumnus Award will go to a hearing therapist who is a leading researcher in the new field of hearing rehabilitation for the elderly. **Kathleen Pichora-Fuller** was chosen by the Alumni Association in recognition of her work in audiology.

Ms. Pichora-Fuller graduated from UBC in 1980 with a Master's degree in Audiology and Speech Sciences. She continued her research in speechreading at Toronto's Mount Sinai Hospital and just three years later became clinic supervisor for the internationally renowned Mount Sinai audiology clinic.

Under her direction, the aural rehabilitation program at Mount Sinai has become unique in Canada, says Dr. John Gilbert, director of the UBC School of Audiology and Speech Sciences.

Currently president of the Canadian Association of Speech Language Pathologists and Audiologists, Ms. Pichora-Fuller is actively

involved in several government task forces and advisory committees studying services available to the disabled and hearing impaired.

"I suppose it is particularly appropriate I was chosen as the recipient of this young award, because I am involved in a young profession," Ms. Pichora-Fuller said. Hearing loss in the elderly is an old problem, but a relatively new field of study for audiologists who are trying to remedy the lack of services available.

The Outstanding Young Alumnus Award will be awarded on an annual basis.

It is with sadness that we learn **Mrs. Ida Green** passed away on December 26 at the age of 83. Mrs. Green and her husband Cecil Green have been recognized internationally for their support of university facilities and scientific projects. Colleges, hospitals, museums,

schools and universities in Canada, Australia, the United States and Britain have benefited from Mrs. Green's personal contributions. Their gifts to UBC have been used for the purchase and renovation of Cecil Green Park, which serves as a campus centre of alumni activities, and for the establishment of the Cecil H. and Ida Green Visiting professorships, which have enabled UBC to bring outstanding teachers and researchers to campus. The University recognized Ida Green's remarkable contributions to education and science with an honorary degree in 1979. In addition to her philanthropic contributions, Mrs. Green was an active participant in civic affairs and a pioneer in the American Association of University Women, and the provision of Graduate Fellowships for women students. She is survived by her husband, Cecil Green.

Library collects newspaper data

A research team of B.C. librarians has begun work at the University of B.C. on the British Columbia Newspaper Project, which will serve as a model for creation of a national data base for newspapers.

The project is funded with a \$75,000 grant from Canada's Social Sciences and Humanities Research Council made to the B.C. Library Association.

Margaret Friesen, head of the UBC library's interlibrary loan division and principal co-investigator on the project, said that completion will enable researchers to determine what newspapers have been published in B.C. "since day one," the locations of the files of each newspaper, the format in which they exist and how to gain access to them.

"We're even planning to provide information on newspapers that we know were published but for which no records exist," Miss Friesen said. "The project is B.C.'s contribution to fulfilling an objective of the National Library of Canada to create a national data base for newspapers."

"The B.C. project will serve as a model which all other Canadian provinces can use to compile a uniform data base that will give anyone access to all Canadian newspapers," Miss Friesen said.

The other principal investigator on the project is UBC graduate Linda Hale, a Vancouver free-lance librarian. Hana Komouros, senior serials librarian at the University of Victoria Library, is the project coordinator and Brian Owen, systems analyst in the UBC library, is project consultant.

Unique computer project to access archives

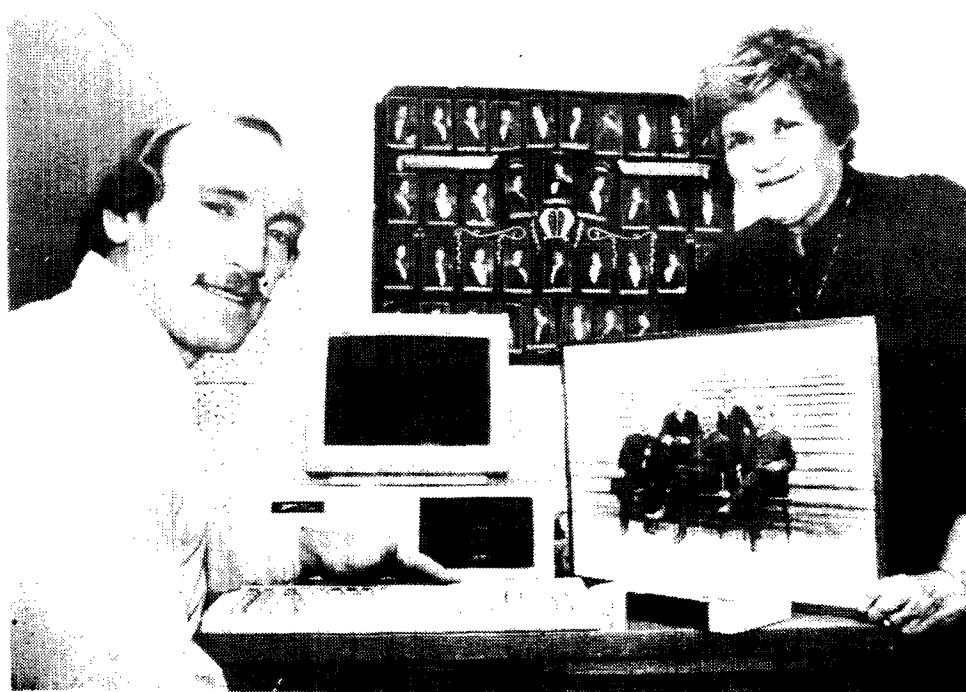
The technology of the information age will soon be used to access the information of the past. The UBC Archives recently received a SSHRC renewal grant of \$20,850 for the Guide Project—a computerized repository guide to UBC's archives and manuscript collections.

The guide will give future researchers faster and easier access to material. "It's going to be of tremendous assistance," said archivist Laurenda Daniells. The innovative and unique project has already generated national interest. "Many other archivists are waiting to see the results of our prototype model," Ms. Daniells said.

A \$26,195 grant from the SSHRC Canadian Research Tools Program in 1985 enabled Ms. Daniells and project archivist, Chris Hives, to begin processing material for the guide database. Additional assistance, in the form of a \$12,000 grant from the B.C. Council of Archives, funded a six month long separate project to organize and describe the backlog of archival material.

"It's really kind of mind-boggling what we have here," said Ms. Daniells, who seems to know every document, photo, micro-fiche and piece of memorabilia—and its location—by heart. The guide, scheduled to be completed this summer, will increase awareness of the scope of material available in the UBC archives. A catalogue will be available to all UBC researchers, as well as historians, genealogists, writers and others from outside the university, who regularly make use of archival information.

The UBC Archives contains a wealth of material, all relating to the university, and going back to the 1890's when the predecessor of UBC, McGill University College, fulfilled the post-secondary requirements of the province. Items include several thousand tape record-



Chris Hives and Laurenda Daniells use high-tech to access archival materials.

ings, some dating from the 1950's, which provide an oral history of facets of university life.

In addition to an extensive photo collection, researchers will find exquisite architectural drawings of old library windows stored beside films of the first Convocation, in 1915. There are maps and plans used in the original construction of the campus buildings, and a large set of lantern slides which UBC professors in the thirties used to illustrate their public lectures in a province-wide extension program. There

are video tapes, personal papers, old scrap-books of newspaper clippings, minutes of AMS meetings, monographs and much, much more.

"People often don't realise that today's records are tomorrow's archives," said Ms. Daniells. She adds that she hopes the guide will remind people on campus that the material in their offices today may well be sought after by researchers in the future.

"I like to think of the archives as the storehouse of the University memory," Ms. Daniells said.

UBC Calendar

THE VANCOUVER INSTITUTE



Saturday, Jan. 31
Byzantine Archaeology: A City Revealed. Prof. James Russell, Classics, UBC.

Saturday, Feb. 7
J. V. Clynne Lecture. Patronage in Canada. Geoffrey Simpson, Ottawa Correspondent, Globe and Mail.

Lecture Hall 2, Woodward Instructional Resources Centre. Free. 8:15 p.m.

SUNDAY, JAN. 25 African Instruments and Rhythms.

The Museum of Anthropology hosts Jeni LeGoh's, Roots and All That Jazz. This presentation explores African instruments and rhythms and their influence on music and dance of the Americas and the West Indies. Performance free with museum admission. For further information call, 228-5087. Great Hall, Museum of Anthropology. 2:30 p.m.

MONDAY, JAN. 26 Mechanical Engineering Seminar.

Mathematical Modelling of Flow-Induced Vibrations. Rob Corless, Graduate Student, Mechanical Engineering. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Astronomy Seminar.

Cosmic Censorship and the Third Law of Black Hole Mechanics. Dr. Werner Israel, University of Alberta. Room 260, Geophysics and Astronomy Building. 4 p.m.

Preventive Medicine and Health Promotion Lecture.

Are There Health Consequences for Women in the Workforce? Fran Caruth, Graduate Student, Health Services Planning and Administration. For further information call, 228-2258. Room 253, James Mather Building. 4 p.m.

Society and Health Colloquium.

Defensive Reticulation: How Physicians Cope with the Patient Shortage. Prof. Robert Evans, Economics, UBC. Room 207-209, Anthropology and Sociology Building. 4:30 p.m.

International Film Night.

Kagemusha. Akira Kurosawa's epic drama of feudal conflict. Gate 4 Lounge, International House. 7:30 p.m.

TUESDAY JAN 27

Botany Seminar.

Regulation of Cell Calcium: Active and Passive Transport Systems. Dr. Heven Sze, Botany, University of Maryland. Room 3219, Biological Sciences Building. 12:30 p.m.

Health Promotion and Systems Studies.

In Pursuit of Socially Malleable Contingencies in Mental Health: Selected Findings from a Study of Disabled and Non-Disabled Adults. Dr. Jay Turner, Medical Sociologist and National Health Scientist. For more information call, 228-2258. Fourth Floor Board Room, IRC. 12:30 p.m.

Office For Women Students Workshop.

Creative Techniques for Reduction of Stress and Anxiety. Workshops continue on Feb. 3 and Feb. 10. For more information call, 228-2415. Room 106 A, Brock Hall. 12:30 p.m.

Office For Women Students Support Group.

Mature Students Support Group. This group will meet every Tuesday lunch-hour throughout the term. For further information call, 228-2415. Women Students Lounge, Room 223, Brock Hall. 12:30 p.m.

Chemistry Seminar.

Plasma Etching Reactions: A Discussion of Mechanisms. Dr. Harold F. Winters, IBM Almaden Research Center, San Jose, California. Room 250, Chemistry Building. 1 p.m.

Statistics Workshop Seminar.

Optimal Variable Selection in Monitoring of Cardiotonic Effects. Peter Schumacher, Statistical Consulting and Research Laboratory, UBC. Room 102, Ponderosa Annex C. 3:30 p.m.

Research Centre Seminar.

Hereditary Hypoalphalipoproteinemias and Atherosclerosis. Dr. Jiri Frohlich, Pathology, UBC. Room 202, Research Centre, 950 West 28th Avenue. 4 p.m.

Religious Studies Film.

Image Before My Eyes. A film about Jewish life in eastern Europe before the Holocaust. Admission free. Room B212, Buchanan Building. 8:15 p.m.

WEDNESDAY JAN 28

Noon-Hour Concert.

Gene Ramsbottom, clarinet, Philippe Etter, viola, Melinda Coffey, piano. Donation requested. Recital Hall, Music Building. 12:30 p.m.

UBC Calendar

Forestry Seminar.

Private Sector Investment in Forestry - Current Financial Status of the B.C. Forest Industry. Mr. Jack Pussepp, Pemberton-Houston Willoughby Ltd., Vancouver. For information call, 228-2507. Room 168, Macmillan Building. 12:30 p.m.

Reading.

Reading, sponsored by the English and the Creative Writing Departments, by the Canadian poet Steve Noyes, author of *Backing into Heaven*. Buchanan Penthouse. 12:30 p.m.

Oceanography Seminar.

Carbon 14 in Marine Sediments. Dr. S. Emerson, University of Washington. For more information call 228-2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Geography Colloquium.

Sea Level Changes and Precontact Settlement in Coastal B.C. Richard Hebda, Botany, B.C. Provincial Museum. Room 201, Geography Building. 3:30 p.m.

Applied Mathematics Seminar.

Output-Size Sensitive Algorithms in Computational Geometry. Prof. David Kirkpatrick, Computer Science, UBC. Room 229, Mathematics Building. 3:45 p.m.

Personnel Services and Financial Planning Lecture.

RRSP's, Annuities and RRI's. Jim Rogers, President, James E. Rogers and Associates. Open to all staff. For further information call, Maureen Simons, 228-2456 or Jane Durant, 228-6204. IRC 2. 4:30 p.m.

Zoology and I.A.R.E. Seminar.

The Snowshoe Hare Cycle in the Southern Yukon - The Last 10 Years and the Next 10 Years. Dr. C. J. Krebs, Zoology, UBC. Room 2000, Biological Sciences Building. 4:30 p.m.

Cinema 16.

Antonia: Portrait of a Woman. \$2.00 plus a one-time membership fee of \$1.00. For more information call, 228-3697. SUB Auditorium. 7 p.m.

THURSDAY JAN 29 Medical Grand Rounds.

Disorders of Gastric Emptying. Dr. Paul Kortan, University of Toronto. Room G279, Acute Care Unit, Health Sciences Centre Hospital. 12 noon.

Office For Women Students Workshop.

Essay Skills Workshops. Nancy Horsman, Office for Women Students. Workshops continue on Feb. 5 and Feb. 12. Room B212, Buchanan Building. 12:30 p.m.

Geological Sciences Lecture.

Orientation Surveys: A Means of Optimizing Geochemical Survey Effectiveness in Mineral Exploration. Dr. Graham Closs, Colorado School of Mines. Room 330A, Geological Sciences Building. 12:30 p.m.

Geological Sciences Lecture.

Models in Exploration Geochemistry. Dr. Graham Closs, Colorado School of Mines. Room 330A, Geological Sciences Building. 3:30 p.m.

Adventures of the Mind Lecture Series.

Irrational Behaviour, Group Identification, Fanaticism and Calamities - A Study of Arthur Koestler's Theories. Dr. Ronald Jones, Education, UBC. For further information call, Kerrisdale Community Centre, 286-8331. Kerrisdale Community Centre. 7:30 p.m.

Faculty Recital.

Hans-Karl Piltz, viola. Recital Hall, Music Building. 8 p.m.

FRIDAY, JAN. 30 Pharmaceutical Sciences Seminar.

The Control of Myocardial Contractility: Role of Zarcosin Calcium. Prof. Glen Langer, Medicine and Physiology, UCLA. IRC 3. 12:30 p.m.

Noon-Hour Concert.

Collegium Musicum Ensembles. John Sawyer, Ray Nurse, Morna Russell, directors. Recital Hall, Music Building. 12:30 p.m.

Medical Genetics Seminar.

Chorionic Villus Sampling - Local and International Update. Dr. Doug Wilson, Clinical Genetics, Grace Hospital. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

Geological Sciences Seminar.

Geological Environments for Platinum - Group Elements Mineralization - A Chief Overview. Dr. L. J. Hulbert, Geological Survey of Canada, Ottawa. Room 330A, Geological Sciences Building. 3:30 p.m.

Chamber Concert.

UBC Student Chamber Ensembles. String, wind and keyboard divisions. Recital Hall, Music Building. 8 p.m.

International House South Pacific Night.

Tahitian, Maori and Hawaiian Dancers. Come dressed in tropical attire. \$1.00 non-International House members and 50c. International House members. For further information call, 228-5021. Upper Lounge, International House. 8 p.m.

SATURDAY, JAN 31 Federation of Medical Women of Canada - B.C. Branch - One Day Conference.

Woman to Woman: Your Health and Happiness. Panel of women physicians will present papers and workshops. \$50 includes lunch and handouts. For further information call, 222-5272 or 222-5240. Room 110, Henry Angus Building. 8:30 p.m.

Thunderbird Women's Gymnastics.

Dual Meet. Osborne Gymnasium. 11 a.m.

Thunderbirds Rugby.

UBC versus the Vancouver Reps Club team in McKechnie Cup action. Thunderbird Stadium. 2:30 p.m.

Thunderbird Men's and Women's Basketball.

UBC hosts teams from the University of Victoria. War Memorial Gymnasium. 8 p.m. and 8 p.m.

Guest Artist Performance.

Philip Myers, French horn and Robert Rogers, piano. Works by Beethoven, Strauss, Dukas, Hummel, Poot and Hindemith. Tickets: Adults \$8 and students/seniors \$4. Recital Hall, Music Building. 8 p.m.

MONDAY, FEB. 2 Faculty Recital.

David Branter, alto and soprano saxophones, Melinda Coffey, piano. Recital Hall, Music Building. 12:30 p.m.

Chemistry Seminar.

Structure and Dynamics of Atomic and Molecular Layers Deposited on Xe Plated Graphite. Prof. Giacinto Scoles, Chemistry, University of Waterloo. Room 225, Chemistry Building. 2:30 p.m.

Mechanical Engineering Seminar.

Dynamic Redesign of Modified Structures. Phillip Welch, Graduate Student. Room 1204, Civil and Mechanical Engineering Building. 3:30 p.m.

Applied Mathematics Seminar.

Bistable Solitons. Prof. Richard Enns, Physics, SFU. Room 229, Mathematics Building. 3:45 p.m.

Astronomy Seminar.

Two Steps Toward the Hubble Constant. Dr. S. Van Den Bergh. Room 260, Geophysics and Astronomy Building. 4 p.m.

TUESDAY, FEB. 3 Botany Seminar.

Chasing Green Genes Through the Molecular Jungle. Dr. B. R. Green, Botany, UBC. Room 3219, Biological Sciences Building. 12:30 p.m.

C-I-L Lecture in Physical Chemistry.

Chemical Dynamics In and On Molecular Clusters. Prof. Giacinto Scoles, Chemistry, University of Waterloo. Room 250, Chemistry Building. 1 p.m.

Oceanography Seminar.

Wave Growth in Scattered Sea Ice. D. Masson, Oceanography, UBC. For further information contact 228-2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Anatomy Seminar.

Effects of Human Serum on Growth and Chemosensitivities of Cultured Human Breast Cancer Cells. Dr. Joanne Emerman, Anatomy, UBC. Room B37, Anatomy, Friedman Building. 4 p.m.

WEDNESDAY, FEB. 4 Pharmacology and Therapeutics Seminar.

A Single Ca++ Entry System and a Single Transmitter Release System at the Motor Nerve Terminal? Dr. D. M. Quastel, Pharmacology and Therapeutics, UBC. Room 317, Block C, Basic Medical Sciences Building. 12 noon.

Forestry Seminar.

Similarity Mapping: Simple Views from the Stratosphere and Its Use in Comparing B.C.'s Permanent Sample Plots. Dr. N. Smith, Forest Science, UBC. Room 168, Macmillan Building. 12:30 p.m.

Noon-Hour Concert.

Purcell String Quartet. Donation requested. Recital Hall, Music Building. 12:30 p.m.

Geography Colloquium.

The Impact of Foreign Investment on the Special Economic Zones of China. Francis Yee, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Cinema 16.

Woman of the Dunes. \$2.00 plus a one-time membership fee of \$1.00. For more information call, 228-3697. SUB Auditorium. 7 p.m.

Centre for Continuing Education Debate.

The Defense of Canada: A Debate. Gwynne Dyer, author and narrator of the television series, War, and Douglas A. Ross, Institute of International Affairs, UBC, an expert in the area of arms control and Canadian defense. General admission \$8. Students \$5. For further information call, 222-5238. IRC 2. 7:30 p.m.

THURSDAY, FEB. 5 Medical Grand Rounds.

Neurologic Manifestations of AIDS. Drs. J. Oger, G. Stiver, G. May, J. Hill, Radiology, UBC. Lecture Theatre, Room G279, Acute Care Unit. 12 noon.

Geological Sciences Seminar.

Upper Triassic Tethyan Reefs, Whitehorse Trough, Yukon. Dr. R. Pam Reid, University of Miami. Room 330A, Geological Sciences Building. 12:30 p.m.

Guest Artist Recital.

Stan Fisher, clarinet. Donation requested. Recital Hall, Music Building. 12:30 p.m.

Faculty Association General Meeting.

Room 100, Mathematics Building. 1 p.m.

Psychology Colloquium.

Apraxia and Related Communicative Disorders After Left Cerebral Damage. Dr. Doreen Kimura, University of Western Ontario. Room 2510, Kenny Building. 4 p.m.

Centre for Continuing Education Public Forum.

What's the Future of Unemployment Insurance in Canada? Claude Forget, chairman, Commission of Inquiry on Unemployment. Admission: \$8. For further information call, 222-5238. IRC 2. 7:30 p.m.

Adventures of the Mind Lecture Series.

Life in the Universe. Dr. Michael Ovenden, Astronomy, UBC. For further information call, the Kerrisdale Community Centre, 286-8331. Kerrisdale Community Centre. 7:30 p.m.

FRIDAY, FEB. 6 Forestry Seminar.

Current Problems and Techniques in Growth and Yield Predictions. Dr. George M. Furnival, Forestry, Yale University. Room 168, Macmillan Building. 12:30 p.m.

Distinguished Artists of India Concert.

Rhythm Workshop and Concert of South Indian Flute and Mridangam (drum). Prof. Trichy Sankaran, York University and Prof. T. Viswanathan, Wesleyan University. Asian Centre Auditorium. 12:30 p.m.

Leon and Thea Koerner Lecture.

The Art of Making Scenes: A Do-It-Yourself Guide to Theatre. Prof. Ronald Bryden, Drama, University of Toronto. Room A106, Buchanan Building. 12:30 p.m.

Faculty Recital.

James Fankhauser, voice, Rena Sharon, piano. Recital Hall, Music Building. 12:30 p.m.

Asian Studies Colloquium.

Two Notions of Brahman in Sanskrit Religious Literature. Dave Fern, Graduate Student, Asian Studies, UBC. Room 804, Asian Centre. 12:45 p.m.

Medical Genetics Seminar.

Case Presentations and Counselling Issues. Faculty, Clinical Genetics Unit, Grace Hospital. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

Thunderbird Men's and Women's Volleyball.

UBC hosts teams from the University of Calgary. War Memorial Gymnasium. 6:30 p.m. and 8 p.m.

Thunderbird Field Hockey.

Indoor Invitational Tournament. UBC Armouries. All day.

SATURDAY, FEB. 7 Thunderbird Men's and Women's Volleyball.

UBC Teams Host the University of Lethbridge. War Memorial Gymnasium. 6:30 p.m. and 8 p.m.

Thunderbird Field Hockey.

Indoor Invitational Tournament. UBC Armouries. All day.

NOTICES

Badminton Club.

Faculty and Staff Badminton Club meets Tuesdays 8:30 - 10:30 p.m. and Fridays 7:30 - 9:30 p.m. (except Jan. 30) in Gymnasium A of the Robert Osborne Sports Centre. Fees \$15 till April. New members welcome. For more information, call Bernie 228-4025.

Nitobe Memorial Garden.

The Nitobe Memorial Garden will be closed weekends. Hours will be Monday to Friday, 10 a.m. to 3 p.m. Free admission during winter hours.

Botanical Garden.

The Main Botanical Garden on Stadium Road will be open daily (including weekends) from 10 a.m. to 3 p.m.

Fitness Appraisal.

The School of Physical Education and Recreation, through the new John M. Buchanan Fitness and Research Centre, is administering a comprehensive physical fitness assessment program available to students, faculty, staff and the general public. A complete assessment takes approximately one hour and encompasses the various fitness tests, an interpretation of the results, detailed counselling and an exercise prescription. A fee of \$20 for students and \$25 for all others is charged. For additional information, please call 228-3996, or inquire at Recreation UBC, War Memorial Gym, Room 203.

London Theatre Tour.

UBC's Centre for Continuing Education is offering a London theatre tour Feb. 20 to Mar. 2, 1987. Trip includes six theatre performances, visits to Cambridge University, the Museum of London, the National Portrait Gallery, a tour of the city's theatres, airfare, accommodations and transfers. Cost is \$2,350. For more information, call Jo Ledingham at 222-5207.

Computing Centre Non-credit Courses.

The Computing Centre is offering a series of free non-credit courses during January, February and March. These courses are intended primarily for members of the university community who plan to use the facilities of the Computing Centre. A complete list of courses is available by calling 228-6611, or you can pick up a schedule from the Computing Centre general office (CSCI 420).

Faculty and Staff Exercise Class.

Mondays, Tuesdays and Thursdays. Instructor: S. R. Brown. For further information call, 228-3998. Gymnasium B East, R. Osborne Building. 12:30 - 1:05 p.m.

Faculty and Staff Hockey.

Ice time has been changed in January and February for faculty, staff, friends and "oldtimers" hockey to 3:45 - 4:45 p.m. Wednesdays. This is non-contact hockey for those over, or near, 50 years of age. Newcomers are welcome. For further information call, 228-3188. Rink 1, Thunderbird Arena.

Occupational Stress.

The University Occupational Health and Safety Committee Task Force on Occupational Stress is soliciting submissions from faculty and staff on incidences of occupational stress contributing to accidents, illness and increases in absenteeism at the university. Written submissions should be sent to the Occupational Health and Safety Office, Room 209, Old Administration Building.

Fine Arts Gallery.

Aspects of Contemporary Canadian Art From the Collections of the University of Calgary at the Nickle Arts Museum. Fine Arts Gallery, Basement, Main Library Building. Tuesday to Friday, 10 a.m. - 5 p.m. Saturday, noon - 5 p.m.

Calendar Deadlines

For events in the period Feb. 8 to Feb. 21, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, Jan. 29 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.