



KAON decision welcomed by UBC

By GAVIN WILSON

Senior UBC administrators are welcoming the decision of the federal and provincial governments to fund the TRIUMF KAON factory, saying it will bring many of the world's best scientists to campus.

"We are honored to be host to Canada's national particle physics research laboratory and to play a role in managing the facility on behalf of the two levels of government," said UBC President David Strangway.

"This decision is not only important for UBC and the other universities involved in the project, it is also important for British Columbia and the rest of Canada."

This marks the first time in Canadian history that a consortium of universities has been asked to manage a major national laboratory on behalf of government, Strangway said. This approach is commonly used in other countries, such as the United States, and has led to outstanding research and development.

Strangway added that UBC looks forward to the opportunity to negotiate with the new corporation on the terms and conditions under which it will need



Education Minister Stan Hagen, a longtime KAON factory backer, is presented with a "Mr. KAON" licence plate by TRIUMF Director Erich Vogt at announcement federal funding commitment.

access to UBC resources, including a suitable site.

Justice Minister Kim Campbell announced Sept. 19 that the federal gov-

ernment had made "a firm offer" of \$236 million toward the capital costs of constructing the KAON facility and that negotiation on operating costs, in-

cluding international contributions, are continuing.

Campbell said federal funding for the KAON project will be in addition to exist-

ing science and technology budgets.

Speaking to TRIUMF staff and project supporters shortly after Campbell's announcement in Ottawa, provincial Education Minister Stan Hagen said KAON would help diversify the B.C. economy.

"We're on our way," he said, adding that KAON will "launch this nation into a new and exciting era of discovery."

Hagen, who has been the minister responsible for KAON since 1987, said the KAON factory means 17,000 person-years of new jobs during its six-year construction phase and another 2,000 jobs annually once it is operational.

The KAON factory will put Canada at the front line of basic scientific research and attract scientists from around the world to the UBC campus, said Daniel Birch, vice-president, academic, and provost.

"This is an international signal that Canada is willing to play its role at the highest levels of scientific endeavor," he said.

Robert Miller, vice-president, research, said, "KAON will move Canada to the front in the next generation of particle physics research. This See KAON on Page 2

New advisor on women takes on the 'chill factor'

By CONNIE FILLETTI

Florence Ledwitz-Rigby has been appointed to the newly created position of Advisor to the President on Women and Gender Relations.

The part-time position was established in response to concerns raised by women faculty, staff and students during round table discussions, initiated by President David Strangway last year, to pinpoint issues of particular concern to women.

"I have identified a number of

steps which have been and will be taken to enhance the environment for all members of the UBC community," Strangway said. "These steps will be elements in a larger strategy to which I have assigned a very high priority."

In 1975 Ledwitz-Rigby was the first female faculty member in biological sciences to be on tenure track at Northern Illinois University (NIU). She was also the first woman promoted to full professor in NIU's Biology Department in 1987.

In addition to working to establish a Women's Studies Program at NIU, Ledwitz-Rigby was active in organizing workshops and panel discussions promoting women in science.

She was a member of the steering committee of the Organization for Academic Womens' Equality which advised the president on the status of women.

Ledwitz-Rigby will advise President Strangway on the status of women at UBC and on the effect gender relations have on women's work and study. In addition, she will recommend strategies to reduce gender discrimination.

As well as chairing the President's Advisory Committee on the Status of Women, she is currently establishing a President's Advisory Committee on Safety.

Ledwitz-Rigby explained that



Ledwitz-Rigby

her main goal is to contribute to the development of policy at UBC which will enable all women on campus to fully achieve their potential.

Specifically, she will work with units on campus, such as the Women Students' Office and the Sexual Harassment Office, which are concerned with improving the environment on campus for women.

Ledwitz-Rigby is meeting with various offices to find out what they're doing.

"I don't want to reinvent the wheel. There are lots of wheels turning on campus but few axles. I hope to build

See ADVISOR on Page 3

Two faculty members win science awards

By GAVIN WILSON

Two UBC faculty members are winners of gold medals from the Science Council of British Columbia.

Martha Salcudean, head of Mechanical Engineering, has won the 1991 B.C. Science and Engineering Award in Applied Science and Engineering.

And retired Chemistry Professor Douglas Hayward, who inspired the Scientists in the Schools program, is this year's winner of the Eve Savory Award for Science Communication.

Both Salcudean and Hayward will receive their awards at the B.C. Science and Engineering Awards dinner in Vancouver Oct. 22.

Salcudean is being recognized both for her outstanding research achievements and her administrative talents.

Born and educated in Romania, she came to Canada in 1976 and joined UBC in 1985. She is the only woman in the country to head up an engineering department, and is likely the first woman in North America to be

appointed to such a position.

Salcudean has won wide acclaim for her research on designing computer simulations of the flow of fluids, a field which has important industrial applications. Financial support for her research is among the highest of any engineering research in Canada.

She was recently appointed to the governing council of the National Research Council and the National Advisory Panel on Advanced Materials.

Since he retired from UBC's Chemistry Dept. in 1984, Hayward has spent hundreds of hours talking about chemistry, and science in general, to an estimated 12,000 elementary school students throughout the province. He was originally sponsored by the Chemical Institute of Canada.

Hayward says his message is to show students, teachers and parents that chemistry is "fun, interesting and safe."

He was the model for the prov-

See HAYWARD on Page 2



Hayward



Salcudean

Inside

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COMFORT: During the Gulf War, Hillel House provided an outlet for feelings of members of the campus Jewish community concerned about events in the Middle East. Profile, page 3

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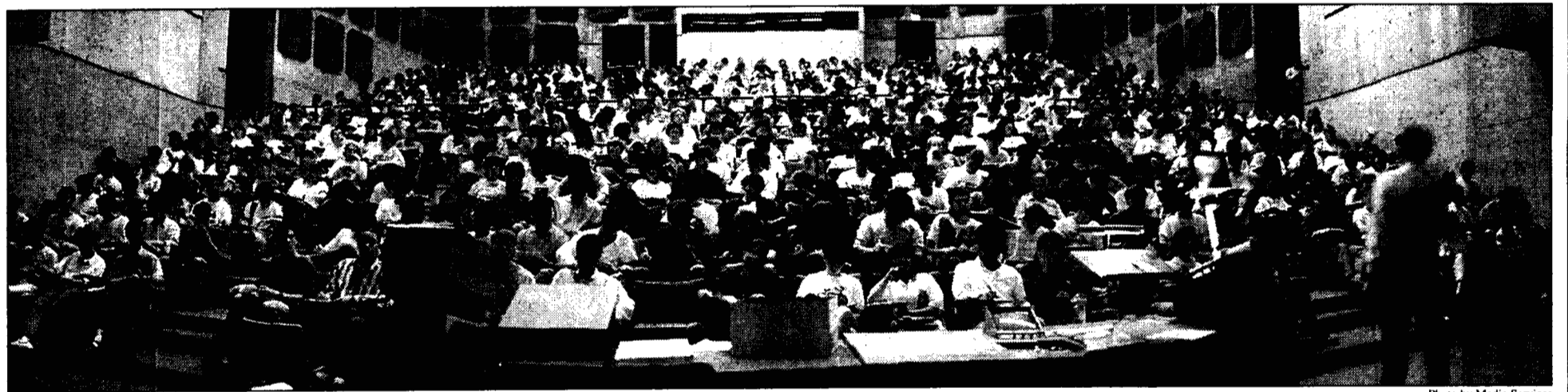


Photo by Media Services

Students jam into a lecture hall to attend Applied Science 121. The largest single section class on campus, the course deals with the non-technical aspects of engineering.

Course examines engineer's role in society

By GAVIN WILSON

Students start lining up outside the lecture hall well before the 12:30 p.m. start of Applied Science 121. They have to, if they want to get a seat.

The course, Society and the Engineer, is the largest taught in a single section at UBC. There are 617 students packed into Woodward IRC 2.

The aim of the course, which did not exist two years ago, is to show that engineering is not just a technical, scientific and mathematical pursuit, but that it relates to people,

says Axel Meisen, dean of Applied Science. Meisen is one of two course instructors. The other is John Meech, of the Department of Mining and Mineral Process Engineering. In addition, there are several guest lecturers.

The course looks at engineering's role and responsibilities in society and also includes topics such as sexual harassment, multiculturalism and employment equity.

"It's a great challenge to attempt to deal with a difficult range of subjects in a very large group," said Meisen. "There's no easy route for feedback.

It's hard to engage the professor in discussion in a class that size."

Still, he feels the course is successful in making the students think about the topics and is prompting discussion outside of the classroom.

In one part of the course, case studies are used to look at major engineering projects and the impact they have on the environment and on Native Indians.

"In the case of Native Indians, it's not only a matter of land and resource ownership, but also a matter of how to relate to those communities," said Meisen. "You must, as an

engineer, respect and understand their local social fabric, values, and way of life.

"One needs to be aware of these aspects of a project just as much as its technical feasibility or economic attractiveness."

The course also examines multiculturalism, as changes in the engineering workforce reflect the changing makeup of Canadian society.

Pointing out the "tremendous diversity" in race and ethnic background before him in the lecture hall, Meisen says, "this is the engineering

workforce of the future."

He said it is a testament to the engineering profession that is actively reaching out to include underrepresented groups.

Gender relations and sexual harassment issues are also taught, topics that are just as important at the university as they are in the workplace.

"We teach students not just rules and regulations, but also how sexual harassment manifests itself and what obligations they have as citizens, co-workers and employers," he said.



Letters to the Editor

Thanks for years of service

The Editor
UBC Reports

Nancy Horsman retired on September 27, following a 25-year career at UBC.

Ms. Horsman spent her career dedicated to working with students in the Women Students' Office. That office is a critical part of UBC's student service network and she has contributed a great deal to the work of the office for many years.

I would like to take this opportunity to publicly thank Ms. Horsman, on behalf of the university and my colleagues, for her years of service.

K.D. Srivastava
Vice-President
Student and Academic Services

Undergrad enrolment up 11 per cent

Lack of space forced many UBC faculties to turn away record numbers of qualified students as undergraduate applications rose 11 per cent over last year.

Enrolment pressures upped the minimum grade point average (GPA) needed for admission to first year Arts to 2.83, while the cutoff for Science jumped to 2.72.

Yet both faculties exceeded their designated quotas by close to 200 students.

"We're faced with not only an increase in first-year enrolment, but overall enrolment as well," said Registrar Richard Spencer.

Spencer said that as GPA requirements continue to rise, so too does the quality of students. The result is fewer dropouts and more people carrying on into second and third years of programs.

Spencer added that preliminary figures show total undergraduate enrolment climbed about 2.5 per cent over last year to about 23,850. Graduates and undergraduates together totalled approximately 28,000, an increase of 3.3 per cent.

The university turned away 1,826 qualified undergraduate students due to lack of space. Of that number, 744 students were in first-year Arts, 258 in first-year Science (four times as many as last year) and 188 students (double last year's total) were refused entry into the first year of Applied Sciences.

The Department of Physical Education and Recreation turned away 110 first-year students versus 29 refusals last year.

Final enrolment figures will be released in November.

Hayward brings science into the classroom

Continued from Page 1

ince-wide program called Scientists in the Schools, which is co-ordinated by Science World on behalf of the Ministry of Advanced Education, Training and Technology.

Under the program, hundreds of scientists and engineers donate their time to speak about their work and opportunities for students within their professions. Similar programs are now being established elsewhere in Canada.

In addition to his visits to classrooms, Hayward writes a regular column on chemistry for several community newspapers, discusses science on radio station CFMI, and has chaired the Lower Mainland regional science fair. With UBC

Chemistry Professor Gordon Bates, he recently published a book titled Do-it-yourself Chemistry.

Hayward is the second winner of the Savory award, which was instituted in 1989. The award is named for television reporter Eve Savory, a Duncan, B.C. native, who, until a recent reassignment, was the national science reporter for CBC News.

The winner of the B.C. Science Council's Cecil Green Award for Entrepreneurial Science is Karl Brackhaus, president and CEO of Dynapro Systems Inc., of Delta.

Still to be announced are Science Council awards for career achievement and industrial innovation.

KAON puts Canada on leading edge of research

Continued from Page 1
is most important."

In addition, Miller said, there will be spin-off benefits for several areas of high technology, including robotics, microelectronics and computer software. The KAON factory consequently will have a strong positive impact on Canadian high technology companies.

Meanwhile, criticisms of the federal government's decision to contribute \$236 million towards the KAON factory are being shrugged off by TRIUMF Director Erich Vogt.

Science Council of Canada head Janet Halliwell, some opposition politicians and columnists in the Globe and Mail have taken turns bashing the decision. But Vogt says he's not worried.

"It's no worse than the criticism that greets the announcement of any other large project," he said.

Although it is being assailed by some in the House of Commons as patronage, Vogt points out that prominent members of the opposition, such as John Turner, as

well as provincial NDP leader Mike Harcourt, are voicing support for the project.

"This is not a partisan issue," he said. And while it is true that there are some items still to be negotiated, including who will pay what share of the \$90 million annual operating costs, Vogt said, "these are not deal stoppers."

The KAON factory is a major expansion of the existing TRIUMF facility, which is operated by a consortium of universities including UBC. It is one of a network of large, new accelerators now being planned worldwide and will allow Canada to take a leading role in subatomic particle research.

The new KAON accelerator will boost TRIUMF's already intense particle beams by 60 times greater energy. This will allow the beam to reach .999 the speed of light, creating kaons and other rare, short-lived subatomic particles which are some of the building blocks of matter. The particles are then directed into research stations for sophisticated experiments.

AMS & UBC present the

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10:00 AM - 5:00 PM**

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University of B.C., 6138 SUB Boulevard**

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UBC looks for ways to improve campus safety

By **CONNIE FILLETTI**

The number of reported sexual assaults at UBC involving adult victims, to date, has surpassed last year's total, according to statistics recently released by the university detachment of the RCMP.

As of Sept. 20, seven sexual assaults were reported for the university endowment lands, with five occurring on campus.

In addition, incidents of regular assault causing bodily harm are on the rise, from 39 incidents reported in 1987, to 74 assaults reported in 1990.

"Most of the sexual assaults occurred outside in bushy areas and

unlighted sections of the campus," said RCMP Const. Bernie Smandych.

She advised everyone to avoid taking shortcuts and to stay on well-travelled paths. Students should be particularly cautious when returning to campus residences after dark, Smandych added.

In addition, a number of services and resources, designed to enhance personal safety, are available to members of the campus community.

- The year-old AMS Walk Home Program has over 70 male and female student volunteers to escort students to any destination on campus, upon request. The service is available seven

days a week, between September and April, from 7:30 p.m. to 11:30 p.m., except on Wednesday, Friday and Saturday, when the hours of operation are extended to 1:30 a.m. Call 822-5355 for information.

- UBC Parking and Security Services offers a security bus service during the winter session (Sept. 30 to April 30) which collects passengers in front of the Main Library from 4 p.m. to midnight on school days. Passengers are driven to any campus location, on request. The security bus is wheelchair accessible. Call 822-4721 for information.

- The AMS Women's Centre will be offering self-defence classes to women for a nominal fee. Information is available at 822-2163.

- The UBC Bookstore, in conjunction with campus bookstores across Canada, is marketing the Fox 40 Personal Safety Whistle, a key-ring whistle to promote personal safety awareness. Call 822-5916 for information.

- The university detachment of the RCMP provides free information sessions on safety and crime prevention to campus groups and residences, upon request. Call 224-1322 for details.

- Students are also invited to watch for special programs, seminars and workshops which address safety issues, offered throughout the year by the Women Students' Office, the Student Counselling and Resources Centre and Student Health Services.

- Implementation of UBC's plan of

action regarding safety and other issues particularly affecting women on campus is underway with the appointment of an Advisor to the President on Women's Issues and Gender Relations.

- A systematic program to improve campus lighting over the next three years took its first step Sept. 30. A team of planning consultants, including a lighting expert, toured the campus, after dark, to identify unsafe areas. They were joined by university personnel including members of the AMS, Campus Planning and UBC women's groups.

- UBC is currently studying a comprehensive plan for parking policies, practices and facilities in an effort to heighten personal safety.

Advisor studies women's roles on campus

Continued from Page 1

some axes," she said. "Coming in new, I have the advantage of being able to take a fresh look, but it means I have a lot of work to do to develop an understanding of where the university has come from and where it is right now."

She feels her greatest challenge is dealing with the campus climate, otherwise known as the "chill factor."

"There are a lot of programs already established and running, but what we really have to do is change the attitudes of large groups of people about who women are and what

their roles should be at the university," she explained.

Ledwitz-Rigby received a PhD in endocrinology and reproductive physiology from the University of Wisconsin-Madison.

She has been an honorary professor in the Department of Obstetrics and Gynaecology in the Faculty of Medicine since August, 1990, where she does collaborative research and is involved with student thesis committees.

Strangway praised Ledwitz-Rigby for her broadly based and thoughtful views on the positions of women faculty, staff and students.

Commerce students experience 'real world'

By **ABE HEFTER**

The Faculty of Commerce and Business Administration continues to open up more windows to the business world.

The faculty has established a set of programs to help students link their classroom experiences with their future business careers.

A career orientation program and up to three new student internship programs are being developed through the university's teaching and learning enhancement fund.

"By expanding the faculty's extra-curricular activities with the addition of programs like these, we hope to give students more of an idea of what they'll be up against when they enter the business world," said Commerce Associate Dean Don Wehrung.

The purpose of the career orientation program is to help undergraduate and graduate students make the transition from academic training to employment, said Wehrung.

The program focuses on exposing students to a wide variety of career opportunities so they can make informed career choices. Presentations and workshops will be established and speakers will be brought in to share their experiences with the students, who will also be encouraged to meet with various individuals in social settings.

"It's also important for students to be able to discuss the contemporary issues that affect business and

government in Canada," said Wehrung. "We'll look at issues like free trade, ethics and privatization in a practical manner."

Practical is a key word Wehrung uses to describe the student internship programs currently available to commerce students. The faculty has mounted three successful internship programs in recent years; the Portfolio Management Society; the Industrial Relations Management Program; and the Arts Administration Program. All three offer students a hands-on opportunity to experience corporate life.

"Students who enter the Portfolio Management Society, for example, are employed by one of the corporate sponsors during the summer months between each of the two years of the program," said Wehrung.

"These summer employment opportunities lead to the development of interpersonal skills and exposure to industry trends. We plan to bring three new internship programs on board with similar structures."

Wehrung said two of them are expected to start up this year, with a third to come next year if funding for the program continues. The internships will be developed from such areas as small business, financial regulations, and real estate management.

"We hope to generate internship opportunities for 25 students through these new programs," said Wehrung.



Profile

Hillel House offers enrichment

By **GAVIN WILSON**

It is a quiet Friday afternoon at Hillel House.

A student sprawls across a sofa, reading a textbook. Someone puts a kettle on to boil in the kosher kitchen. Another student taps out a few notes of Chopsticks on a glossy black piano.

But during the Gulf War, the atmosphere in here was electric.

As Scud missiles rained down on Tel Aviv last January, horrified Jewish students and faculty flocked to Hillel House. They gathered grimaced around the television screen, comforting those who had friends or family in Israel.

"It became a haven," said Hillel Program Director Eyal Lichtmann.

"Everyone was very, very frightened of what was happening. There was an incredible sense of hopelessness and guilt. Here we were sitting comfortably while people were dying."

Hillel House is the centre of campus life for more than 600 Jewish students, as well as many Jewish faculty and staff.

It's part of the worldwide network of Hillel Houses, which are found on nearly every campus in North America and Europe, as well as parts of South America.

"We try to be everything for everyone," Lichtmann says. "This is a cultural centre where students can develop their own Jewish identity in whatever aspect they see fit."

As he offers a visitor a cup of coffee, Lichtmann appears more relaxed than someone who's been putting in 16-hour days has a right to be.

September has been an incredibly hectic month for him. In his job, Lichtmann is at the centre of just about every activity at Hillel. (Overseeing all Hillel operations is executive director Zac Kaye.)

With the new term beginning there were parties to plan, weekly hot lunches for up to 100 people to organize, meetings to set up, students to advise and a newsletter to produce.

On top of all this, September was filled with Jewish holidays such as



Photo by Gavin Wilson

Program Director Eyal Lichtmann extends a welcome to Hillel House.

Rosh Hashanah and Yom Kippur, for which religious services were held.

And then, of course, Lichtmann is studying for his MBA in the evenings.

"It's been crazy," he admits wearily.

Born 26 years ago in Israel, Lichtmann and his family moved to

ment lies behind everything that Hillel House does: guest speakers, Hebrew language classes, Torah study sessions.

"It's enrichment," Lichtmann said. "That's what Jews have been doing for centuries. That's why the educational process is so valued."

Even their weekly hot lunch program, in which up to 100 students get together for a nourishing meal and to socialize, is designed to "enrich the body and soul."

Hillel House programs also stress the idea of student leadership. They feel it's okay to go through school just attending classes, but it's better for students to get involved.

Hillel also tries to reach out to the non-Jewish community at UBC, with varying success.

"People don't know about us. It's ironic, considering our location. We're central, but hidden," said Lichtmann.

Hillel House does boast a central, if not prominent, site, directly beside the north parkade across from the Student Union Building. But the isolation that does exist may end when construction of the new student services building at Brock Hall is complete. It will put them smack in the middle of student life on campus.

Hillel is growing, not only at UBC, where active membership continues to climb, but at SFU and Langara, where UBC students have helped organize Jewish student groups.

"There was an incredible sense of hopelessness and guilt. Here we were sitting comfortably while people were dying."

Canada when he was three.

When he arrived at UBC in 1985, he and a few friends couldn't find the kind of Jewish cultural activities they wanted on campus.

Hillel House was founded by the B'nai B'rith Hillel Foundation in 1947 — a year before the state of Israel was created. But by the mid-80s, students such as Lichtmann felt it was no longer serving their needs.

So he helped set up the Jewish Students' Association and began to organize events and programs, many of which still carry on. In 1986, the Hillel House building received a long-overdue renovation, financed by prominent members of Vancouver's Jewish community.

The Hillel House movement takes its name from a rabbi who lived in Israel many centuries ago. He believed strongly in the benefits of education and is famous for a quotation that still inspires people today.

"If I'm not for myself," he said, "who will be for me?"

That philosophy of self-improve-

ad

October 7 – October 19

MONDAY, OCT. 7

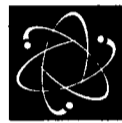
Pediatric Research Seminar Series

Immunology, Networks And Cytokines: The Push-me Pull-you. Assoc. Professor David Matheson, Vice-President Medicine, BC Children's Hosp. Children's Hosp. 3D16 ABC at 12pm. Refreshments at 11:45am. Call 875-2492.

Astronomy Seminar

Stellar Populations in M31 And M33. Dr. S. van den Bergh, Dominion Astrophysical Observatory, Geophysics/Astronomy 260 at 4pm. Coffee at 3:45pm. Call 822-6706.

Chemistry Seminar



Pulse-Shape Effects In IR Multiphoton Dissociation. Dr. Andre Bandrauk, U. of Sherbrooke, Que. Chem. D225 at 10:30am. Call 822-3299.

Biochemistry Lecture

Host-Pathogen Interactions In Microbial Pathogenesis: A Multidisciplinary Approach. Dr. Brett Finlay. IRC #1 at 3:30pm. Call 822-6914.

Mechanical Engineering Seminars

Saw Tensioning And The Light Gap Method. Peter Lister, MASC student. Dynamic Modelling Of Variable-Structure Systems. Jie Peng, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Call 822-6200/4350.

Applied Mathematics Colloquium

Stability Of Thermocapillary Convection In Crystal Growth. Professor Hans Mittelmann, Arizona State U., Tempe, AZ. Math 104 at 3:45pm. Call 822-4584.

Koerner Memorial Lectures



Greek Coins: A Bridge Between Art And History. Dr. Martin J. Price, Deputy Keeper of the Department of Coins, British Museum, London. Lasserre 102 at 12:30pm. Call 822-5675.

In The Footsteps Of Alexander: Coinage For An Empire. Dr. Martin J. Price. Lasserre 107 from 3:30-5pm. Call 822-5675.

UBC Reports is the faculty and staff newspaper of the University of British Columbia. It is published every second Thursday by the UBC Community Relations Office, 6328 Memorial Rd., Vancouver, B.C., V6T 1Z2. Telephone 822-3131. Advertising inquiries: 822-6163. Managing Editor: Steve Crombie. Ass't Editor: Paula Martin. Contributors: Ron Burke, Connie Filletti, Abe Hefter, Charles Ker, and Gavin Wilson.



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CALENDAR DEADLINES

For events in the period October 20 to November 2, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Monday, October 7 to the Community Relations Office, Room 207, 6328 Memorial Rd., Old Administration Building. For more information call 822-3131. The next edition of UBC Reports will be published October 17. Notices exceeding 35 words may be edited.

Hispanic/Italian Studies Lectures

Vida Extrema y la Poesia de Jorge Guillen. Professor Francisco Diaz de Castro. Buchanan A202 at 12:30pm. Call 822-2268.

Largo Lamento de Pedro Salinas. Professor Francisco Diaz de Castro. Buchanan B218 at 3:30pm. Call 822-2268.

Fine Arts Lecture



Object Psyche And Interpretation. Jeanne Randolph, U. of Toronto. Lasserre 104 at 1:30pm. Call 822-2757.

University Computing Services Workshop

Using A Mouse With An IBM PC. Eldon Wong. Register Computer Sciences 209. Fee: \$37.50, students \$28. UCS Annex 2 from 1:30-3:30pm. Call 822-8938.

TUESDAY, OCT. 8

Modern Chemistry Lecture

Molecules In Intense Fields—Theory vs. Experiment. Dr. Andre Bandrauk, U. of Sherbrooke, Que. Chem. B250 at 1pm. Refreshments at 12:40pm. Call 822-3266.

Oceanography Seminar

Development Of An Isopycnal Ocean General Circulation Model. BioSciences 1465 at 3:30pm. Call 822-2828.

Statistics Seminar

Efficient Estimation For Filtered Models. Professor W. Wefelmeyer, Universitat Koln. Angus 223 at 4pm. Call 822-4997/2234.

Economics Seminar

A Comparative Analysis Of Unemployment In Canada And The United States. Craig Ridell. Buchanan D225 from 4:5-5:30pm. Call 822-2876.

Faculty Development Seminar



Teaching Assumptions. Gary Poole, Psychology, SFU. Family/Nutritional Sciences 60 from 3:30-5pm. Registration required. Call 822-9149.

University Computing Services Workshop

Computer Keyboard Skills. Jim Stewart. Register Computer Sciences 209. Fee: \$50, students \$37.50. UCS Annex 2 from 1:30-2:30pm. Call 822-8938.

WEDNESDAY, OCT. 9

Forestry Seminar

Field Performance On A Reforestation Site: An Ecophysiological Perspective. Dr. Steven Grossnickle, BC Research Corporation. MacMillan 166 from 12:30-1:30pm. Call 822-3553.

1991 Computer Show

Computers Working For You: The Complete Solution. Sponsored by UBC Purchasing and AMS. SUB Ballroom from 10am-5pm Wed/Thurs. Call 822-3456.

Cecil And Ida Green Lecture

Fuzzy Logic And Intelligent Systems. Professor Lotfi Zadeh, College of Engineering, U. Calif., Berkeley. IRC #6 at 12:30pm. Call 822-5675.

Economics Seminar

Endogenous And Exogenous Restrictions On Search For Employment. Avner Bar-Ilan, Tel-Aviv U./UBC. Buchanan D225 from 4-5:30pm. Call 822-2876.

Orthopaedic Grand Rounds



Blood Transfusion In Orthopaedic Surgery. Dr. Peter O'Brien. Eye Care Centre Auditorium, 910 W. 10th, 3rd fl., at 7:30am. Call 875-4646.

Microbiology Seminar Series

Molecular Characterization Of The rfb Operon Of Vibrio Cholera. Dr. Melissa Brown, Microbiology. Wesbrook 201 from 12:30-1:30pm. Call 822-6648.

Vancouver School of Theology Lecture

Blowing Off The Dust: Biblical And Near Eastern Studies In The 1990's. Dr. James Lindenberger, Professor of Hebrew Bible. VST Boardroom at 7:30pm. Call 228-9031.

Wednesday Noon Hour Concert



Theodore Arm, violin; Barbara Hallam-Price, organ; UBC Chamber Strings. Recital Hall at 12:30pm. \$2 at the door. Call 822-5574.

THURSDAY, OCT. 10

Centre for Health Services/Policy Research Seminar

Cost-effectiveness Of Alternative Work-up Strategies In Screening For Colorectal Cancer. Kay Brown/Colin Burrows, Australian National Centre for Health Program Evaluation. Mather 253 from 11:30am-1pm. Call 822-3130.

Policy Studies Seminar

The Politics Of Political Correctness: A Forum On Democracy And Education. Dr. John Willinsky, Dir., Curriculum/Instr. Ponderosa Annex H123 from 12-1pm. Call 822-5361.

CICSR Distinguished Lecture Series on Computer Graphics

Shared Workspaces: A Look At Supporting Distributed Workgroups. Dr. Sara Bly, Xerox Palo Alto Research Centre. Scarfe 100 from 1-2:30pm. Refreshments at 12:30pm. Call 822-6894.

BioTech Lab Seminar



Insect Cell Culture Engineering: An Overview. Dr. Theo Goosen, Queen's U., Kingston. Wesbrook 201 at 3:30pm. Refreshments at 3:15pm. Call 822-5835.

Health Sciences Student Research Forum

Introductory Remarks: Dr. John Grace, Dean of Graduate Studies. Keynote speakers: Erin Brown, Philip Toleikis. IRC Foyer from 5-8pm. Call 822-4305.

Pharmacology Seminar

The Cholesterol Myth. Dr. Morley Sutter, Pharmacology/Therapeutics. IRC #2 from 11:30am-12:30pm. Call 822-2575.

Cecil And Ida Green Seminar

Fuzzy Logic: Calculus Of Fuzzy If-Then Rules. Professor Lotfi Zadeh. U. Calif., Berkeley. Civil/Mechanical Eng. 1204 at 11:30am. Call 822-5675.

Faculty Development Seminar

Science/Applied Science. Past/present winners of university teaching prizes comprise panel who will address issues surrounding teaching/learning. Angus 104 from 3:30-5pm. Call 822-9149.

Jazz Chamber Ensembles

Recital Hall at 12:30pm. Call 822-5574.

Distinguished Artists Concert



An Evening Of Chamber Music. Prelude lecture at 7:15pm, concert at 8pm in the Recital Hall. Adults \$12, seniors/students \$7. Call 822-5574.

FRIDAY, OCT. 11

Obstetrics/Gynecology Grand Rounds

Management of Premature Rupture Of Membranes And Intra-Amniotic Infection. Dr. Ronald Gibbs, U. of Colorado. UBC Hospital, Shaughnessy Site D308 at 8am. Call 875-2171.

Chemical Engineering Seminar

Waste Processing In The USSR. Professor A.E. Gorshtein. Chem. Eng. 206 at 3:30pm. Call 822-3238.

Fluids/Thermal Bag Lunch

Lingzhe Kong, Research Assoc., Mechanical Engineering. Civil/Mech. Eng. 1212 from 12:30-1:30pm. Call 822-5562.

Grand Rounds



Concepts In Medical Administration. Dr. David Matheson, Vice-President Medicine. G.F. Strong Auditorium at 9am. Call 875-2118.

SATURDAY, OCT. 12

Music Concert

Music From The Heart. Bob Kindler And Friends. Recital Hall at 7pm. Tickets at SUB box office. \$8, students \$5. Call 228-1573.

Vancouver Institute Saturday Night Lecture



Fuzzy Logic: Principles, Applications And Perspectives. Professor Lotfi Zadeh, U. of Calif., Berkeley. IRC #2 at 8:15pm. Call 822-5675.

TUESDAY, OCT. 15

Medical Genetics Seminar

Zfy Genes In Mice And Men. Elizabeth Simpson, PhD, Whitehead Inst., Cambridge, MASS. IRC #1 from 4:30-5:30pm. Refreshments at 4:15pm. Call 822-5312.

Statistics Seminars

Longitudinal Analysis For Binary And Count Data. J. Graham; Over-Dispersion In Poisson Regression. B. McNeney. Statistics. Angus 223 at 4pm. Call 822-4997/2234.

Oceanography Seminar

Mediterranean Heat And Buoyancy Flux. Chris Garrett, UVic. BioSciences 1465 at 3:30pm. Call 822-2828.

Biochemistry Seminar/Lecture

Glucocorticoid Receptor Phosphorylation. Dr. Allan Munck, Physiology, Dartmouth School, Harover, NH. IRC #4 at 3:30pm. Call 875-2718.

University Computing Services Workshop

Your Computer, Your Back, And Office Ergonomics. Joan Hunting. Fee: \$35. Computer Science 460 from 12:30-2:20pm. Register CSCI 209. Call 822-8938.

WEDNESDAY, OCT. 16

Microbiology Seminar

Association Of A Photoactive Cancer Therapeutic Agent (Benzoporphyrin Derivative) With Plasma Lipoproteins Improves Delivery And Therefore The Efficacy Of Photodynamic Therapy. Beth Allison, Microbiology. Wesbrook 201 from 12:30-1:30pm. Call 822-6648.

Applied Mathematics Colloquium

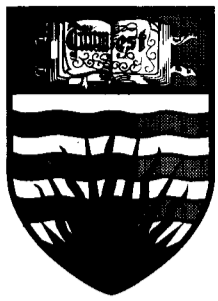
Multilevel Projection Methods. Professor Steve McCormick, U. of Colorado, Denver. Mathematics 104 at 3:45pm. Call 822-4584.

Modern Chemistry Lecture

Structure/Function/Chemical Synthesis Of Glycopeptides: Tomorrow's Information Carriers? Dr. Klaus Bock, Carlsberg Laboratory, Denmark. Chem. 225 (central wing) at 10:30am. Call 822-4511/2471.

Forestry Seminar

New Forestry: What Is It? Do We Need It? Douglas Hopwood, Consulting Forester. MacMillan 166 from 12:30-1:30pm. Call 822-3553.



REPORT OF THE VICE-PRESIDENT, ADMINISTRATION AND FINANCE 1990-91

The audited financial statements are a public document. Copies of the University's audited financial statements have been provided to each University Department and the University Library. For those interested in more information than provided in these highlights, please refer to the copy in your department.

Table 1 describes the activities in each of five of the seven separate funds involved in the financial reporting of UBC during the 1990-91 fiscal year. Excluded are the Student Loan Fund and Endowment Principal Fund. The concept of fund accounting organizes transactions so that revenues and their related expenses are accounted for in separate funds in accordance with objectives specified by donors, limitations and restrictions imposed by sources outside the University, and determinations made by the Board of Governors.

GENERAL PURPOSE OPERATING FUND

The revenue and expenses used in the general operations of the University are accounted for in this fund. Operating income for 1990-91 increased over 1989-90 by \$19.3 million resulting primarily from increases in Provincial grants of \$17.8 million and student fee revenue of \$1.5 million. Total expenses at \$308.4 million were up \$28.5 million with \$25.1 million of the increase attributable to salaries and benefits. The University had an operating deficit of \$2.1 million for the year. The deficit is non recurring and is now eliminated as it was a first charge against increased operating income in 1991-92.

The Canadian Institute of Chartered Accountants made changes in the generally accepted accounting principles applicable to not-for-profit organizations such as universities, hospitals, municipalities and schools. In our case, changes affect the accrual of costs for faculty

TABLE 1
THE UNIVERSITY OF BRITISH COLUMBIA
STATEMENT OF CHANGES IN UNAPPROPRIATED FUND BALANCES
FOR THE YEAR ENDED MARCH 31, 1991

(thousands of dollars)

	General Purpose Operating	Specific Purposes	Sponsored Research	Ancillary Enterprises	Capital	Totals	
						1991	1990
Revenue and other additions							
Government grants and contracts							
Government of Canada	\$ -	\$ 3,569	\$ 81,128	\$ -	\$ 400	\$ 85,097	\$ 57,297
Province of British Columbia							
Base operating	232,404	-	434	-	-	232,838	215,056
Designated	4,640	12,844	13,646	-	53,791	84,921	74,910
Municipalities	-	5	168	-	-	173	37
Other governments	-	22	228	-	-	250	212
Foreign governments	-	894	1,321	-	-	2,215	2,305
Student fees	58,974	435	-	1,293	-	60,702	58,757
Bequests, donations and non-government grants	-	4,462	26,307	-	7,634	38,403	31,443
Sales and services	1,043	176	312	70,612	-	72,143	72,163
Income from investments	5,211	13,035	-	1,032	5,563	24,841	21,376
Loans	-	-	-	-	-	-	999
	<u>302,272</u>	<u>35,442</u>	<u>123,544</u>	<u>72,937</u>	<u>67,388</u>	<u>601,583</u>	<u>534,555</u>
Expenses and other deductions							
Salaries - Academic	125,411	7,492	17,451	-	-	150,354	137,799
- Student services	8,333	3,180	11,153	-	-	22,666	20,138
- Staff	90,701	5,414	22,234	17,833	920	137,102	118,876
	<u>224,445</u>	<u>16,086</u>	<u>50,838</u>	<u>17,833</u>	<u>920</u>	<u>310,122</u>	<u>276,813</u>
Benefits	28,683	991	3,407	1,706	103	34,890	30,375
Travel, field trips, moving	6,032	1,957	6,600	770	75	15,434	13,750
Library acquisitions	6,528	345	438	-	-	7,311	6,897
Operational supplies and expenses	20,888	983	20,733	6,506	2,279	51,489	49,330
Furniture and equipment	8,694	1,226	12,318	1,243	4,484	27,965	20,458
Utilities	9,731	206	827	1,431	682	12,877	12,032
Renovations and alterations	600	391	43	2,128	6,771	9,933	8,298
Scholarships, fellowships and bursaries	5,905	4,568	104	-	-	10,577	9,330
Professional fees	4,427	1,585	2,501	-	-	8,513	11,462
Grants to other agencies	-	-	16,702	-	-	16,702	1,134
Cost of goods sold	-	-	-	28,805	-	28,805	28,034
Debt servicing	-	-	-	8,027	21,824	29,851	26,770
Building contracts	-	-	-	-	11,635	11,635	14,199
Internal cost recoveries	(2,830)	191	1,591	1,048	-	-	-
External cost recoveries	(4,671)	-	-	-	-	(4,671)	(4,493)
	<u>308,432</u>	<u>28,529</u>	<u>116,102</u>	<u>69,597</u>	<u>57,025</u>	<u>579,685</u>	<u>504,389</u>
Net change in the year	(6,160)	6,913	7,442	3,340	10,363	21,898	30,166
Transfers and appropriations							
Expended from prior years' appropriations (Statement 2)	6,429	-	-	1,500	-	7,929	1,752
Interfund transfers (Note 2)	(465)	(5,004)	462	(1,418)	568	(5,857)	(4,581)
Appropriations for the year (Statement 2)	(3,117)	-	-	(3,754)	(10,693)	(17,564)	(21,684)
Net Increase (decrease) during the year	(3,313)	1,909	7,904	(332)	238	6,406	5,653
Unappropriated Fund balance, beginning of year	(4,867)	19,298	25,179	431	6,919	46,960	41,307
Unappropriated Fund balance, end of year	<u>\$ (8,180)</u>	<u>\$ 21,207</u>	<u>\$ 33,083</u>	<u>\$ 99</u>	<u>\$ 7,157</u>	<u>\$ 53,366</u>	<u>\$ 46,960</u>

early retirement agreements and vacation pay for staff. Previously, these were recognized as expenses when paid. Since 1985, the amount of faculty early retirement agreement commitments have been disclosed in the notes to the financial statements. Vacation pay expense is now recognized as it is earned by the staff. Early retirement expenses are recognized when approved by the Board of Governors. As at March 31, 1991, the early retirement agreement liability was \$4,331,000 (1990 - \$3,444,000). The vacation pay liability was estimated at \$1,749,000 (1990 - \$1,605,000).

These amounts totalling almost \$6.1 million are shown as a deficit at March 31, 1991 and approximately this amount will show as a deficit each year in the future, as long as the early retirement program continues.

SPECIFIC PURPOSES FUND

The revenues and expenditures for projects stipulated by donors and income earned on the Endowment Principal Fund are included in this fund. Trust fund revenue was \$22.4 million and

Endowment Fund investment income was \$13.0 million for a total of \$35.4 million. This is an increase in total income of \$4.5 million from 1989-90. This increase is primarily the result of a \$3.4 million increase in grants from the Province. Total expenses increased by \$3.0 million, with \$2.3 million of the increase attributable to salaries and benefits.

SPONSORED RESEARCH FUND

This fund includes amounts specifically identified for research grants

TABLE 2
SOURCE AND DISTRIBUTION OF THE GENERAL PURPOSE OPERATING FUND
FOR THE YEARS ENDED MARCH 31, 1987 TO 1991

Source:	1987	1988	1989	1990	1991
Province of B.C. - Grants	78.4	77.5	78.7	79.4	80.0
Student Fees - Credit	15.3	14.9	15.2	14.9	15.4
Student Fees - Non-credit	3.9	5.2	4.2	3.7	3.0
Other	2.4	2.4	1.9	2.0	1.6
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
Distribution by Function:					
Academic and Associated Services	72.4	73.4	72.6	72.5	72.1
Library	7.3	7.1	7.2	7.3	7.5
Student Awards and Services	3.0	2.8	2.6	2.7	2.6
Administration	5.4	5.0	5.8	5.6	5.3
External Affairs	1.1	1.0	-	-	-
General	1.8	1.7	1.1	1.0	1.2
Plant	9.6	9.5	11.2	11.4	11.8
Overhead recovered	(0.6)	(0.5)	(0.5)	(0.5)	(0.5)
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

TABLE 3
SUMMARY COMPARISONS OF TOTAL GENERAL PURPOSE OPERATING EXPENSES
1986-87 TO 1990-91

	1990-91	1989-90	1988-89	1987-88	1986-87
	%	%	%	%	%
Salaries and Benefits :					
Academic	40.7	41.6	42.3	42.2	42.8
Student Services	2.7	2.5	2.4	2.4	2.5
Staff	<u>29.3</u>	<u>28.3</u>	<u>28.4</u>	<u>29.2</u>	<u>28.5</u>
	72.7	72.4	73.1	73.8	73.8
Benefits	<u>9.3</u>	<u>9.1</u>	<u>9.3</u>	<u>9.2</u>	<u>9.0</u>
	82.0	81.5	82.4	83.0	82.8
Travel & Field Trips	2.0	1.8	1.7	1.6	1.4
Library Acquisitions	2.1	2.2	2.3	2.3	2.4
Supplies & Expenses	7.7	8.5	8.0	7.9	7.9
Utilities	3.2	3.2	3.3	3.5	3.7
Furniture, Equipment & Alterations	<u>3.0</u>	<u>2.8</u>	<u>2.3</u>	<u>1.7</u>	<u>1.8</u>
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

REPORT OF THE VICE-PRESIDENT,
ADMINISTRATION AND FINANCE

1990-91



TABLE 4
TOTAL SPONSORED RESEARCH FUNDING
(thousands of dollars)

	Amount
1990-91	\$123,544*
1989-90	86,432
1988-89	80,147
1987-88	71,511
1986-87	65,280

* Of the \$123.5 million, the University distributed \$16.7 million to other institutions. These funds were distributed under agreements with the federal government, whereby the University is the administrative head of a network of research and a portion of the research is undertaken at other institutions and companies.

TABLE 5
SOURCE AND DISTRIBUTION OF SPONSORED RESEARCH
FOR THE YEARS ENDED MARCH 31, 1987 TO 1991

Source :	1987-88	1988-89	1989-90	1990-91	1991
Government of Canada	65.7	62.1	64.1	67.7	68.9
Province of British Columbia	11.4	12.0	11.0	8.5	7.9
Other governments and agencies	1.4	2.1	2.5	1.7	2.5
Total governments	78.5	76.2	77.6	77.9	79.3
Individuals, business, foundations	21.3	23.7	22.2	21.8	20.5
Other	0.2	0.1	0.2	0.3	0.2
	100.0	100.0	100.0	100.0	100.0
Distribution :					
Salaries and Benefits	46.7	54.6	56.0	55.6	58.2
Travel and field trips	5.7	6.9	6.7	6.5	6.3
Operational supplies and expenses	17.9	21.8	21.6	21.6	20.4
Furniture and equipment	10.6	10.0	9.4	11.3	10.1
Grants to other Institutions	14.4	1.3	-	-	-
Other	4.7	5.4	6.3	5.0	5.0
	100.0	100.0	100.0	100.0	100.0

and contracts or related activities as provided by government granting agencies, research institutes and other public and private agencies. Revenue increased from \$86.4 million in 1989-90 to \$123.5 million this year. The \$37.1 million increase is accounted for by the introduction of the National Centres of Excellence in the amount of \$20.2 million as well as increases in Natural Sciences and Engineering Research Council grants of \$5.0 million, Medical Research Council grants of \$1.7 million, Health and Welfare Canada grants of \$3.4 million, Province of British Columbia Health Care Research Foundation grants of \$1.8 million, Business and Industry donations of \$1.4 million and other less significant variations both positive and negative. Of the \$123.5 million, the University distributed \$16.7 million to other institutions. These funds were distributed under agreements with the federal government, whereby the University is the administrative head of a network of research and a portion of the research is undertaken at other institutions and companies.

ANCILLARY ENTERPRISES FUND

Ancillary enterprises provide goods and services to the University community and are expected to operate on a break-even basis. Total income for the ancillary enterprises was \$72.9 million, an increase of 6.4% over 1989/90. Included are the Bookstore, Food Services, Student Housing and Conferences, University Farm at Oyster River, Parking Services, Health Sciences Parkade, Tennis Centre, Athletics and Sport Services, UBC Press, Media Services, the Educational Measurement Research Group and two new ancillaries, Telecommunications and Computer Maintenance.

CAPITAL FUND

The capital fund consists of gifts,

grants, interest and authorized capital borrowing received for the purpose of acquiring capital assets including those pertaining to ancillary enterprises. Capital fund revenue increased by \$1.7 million. Building contract expense decreased by \$2.6 million. This expense is expected to increase in the next five years as major capital projects are initiated. Many of these capital projects will be funded through the proceeds of the Major Fund Raising Campaign currently underway.

COMBINED FUNDS

Table 1 shows the total revenue and expenses of all five funds by

object of revenue and expenses. Total revenue for all funds was \$601.6 million, up \$67.0 million from last year. Total salaries and benefits were \$345.0 million, an increase of \$37.8 million.

Table 2 shows the source and distribution of General Purpose Operating funds over the past five years.

Table 3 shows a comparison of the Total General Purpose Operating Expenses by object of expense for the five years 1986-87 to 1990-91.

Table 4 shows the change in total Sponsored Research funding since 1986-87.

Table 5 shows the source and distribution of Sponsored Research funds.

GENERAL

The University's "A World of Opportunity" campaign which began in January 1988 is progressing very well. With the campaign expected to be completed in 1992, more than \$200 million in cash and pledges has been raised from individuals, organizations, corporations and governments at all levels, including \$87 million from the Provincial Government Matching Gifts Program. The pledges will be collected over the next five years with the matching gifts from the Provincial Govern-

TABLE 6
The University of British Columbia
SCHEDULE OF ENDOWMENT PRINCIPAL FUNDS
As at March 31
(thousands of dollars)

Areas	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
Scholarships	\$ 24,382	\$ 29,845	\$ 34,043	\$ 36,046	\$ 40,543	\$ 45,043
Agricultural Sciences	608	666	947	1,028	1,198	1,524
Applied Science	73	90	105	106	763	937
Arts	677	1,663	3,078	3,612	4,959	5,397
Commerce & Bus. Admin.	8,297	9,699	12,547	14,520	17,652	19,281
Dentistry	26	26	85	85	85	89
Education	138	151	490	531	533	1,538
Forestry	74	79	89	94	98	627
Graduate Studies	--	1	1	3	4	6,091
Law	100	100	123	138	312	401
Lectures	1,519	1,110	1,197	1,248	1,253	1,391
Library & Archival	1,365	1,365	1,453	1,735	1,883	2,062
Medicine	6,909	7,669	10,195	11,330	13,271	16,037
Pharmaceutical Sciences	--	--	165	191	244	341
Science	37	174	235	320	377	677
University Press	573	573	573	573	1,114	1,174
General	36,915	34,385	35,884	35,562	35,721	35,274
President's Fund	731	731	1,046	1,642	4,481	7,018
Sub-total	82,424	88,327	102,256	108,764	124,491	144,902
Vancouver Foundation	3,449	4,266	4,458	4,794	5,475	7,400
Total	\$ 85,873	\$ 92,593	\$ 106,714	\$ 113,558	\$ 129,966	\$ 152,302

The University of British Columbia
Development Office Telephone
6253 NW Marine Drive 604 822.8900
Vancouver, Canada Facsimile
V6T 1Z1 604 822.8151

Opportunity

The UBC Campaign News

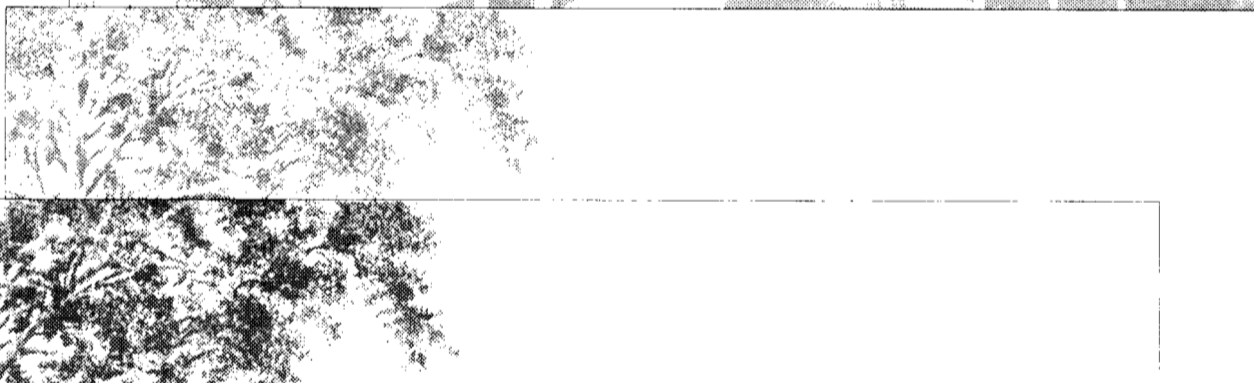
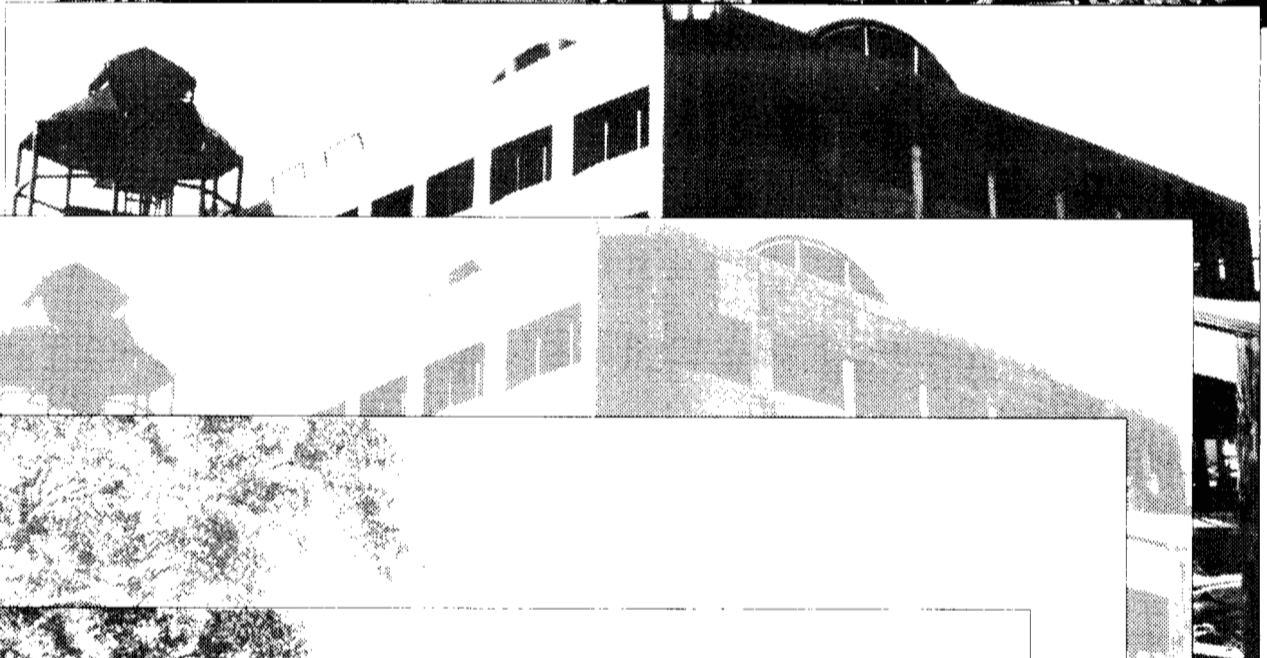
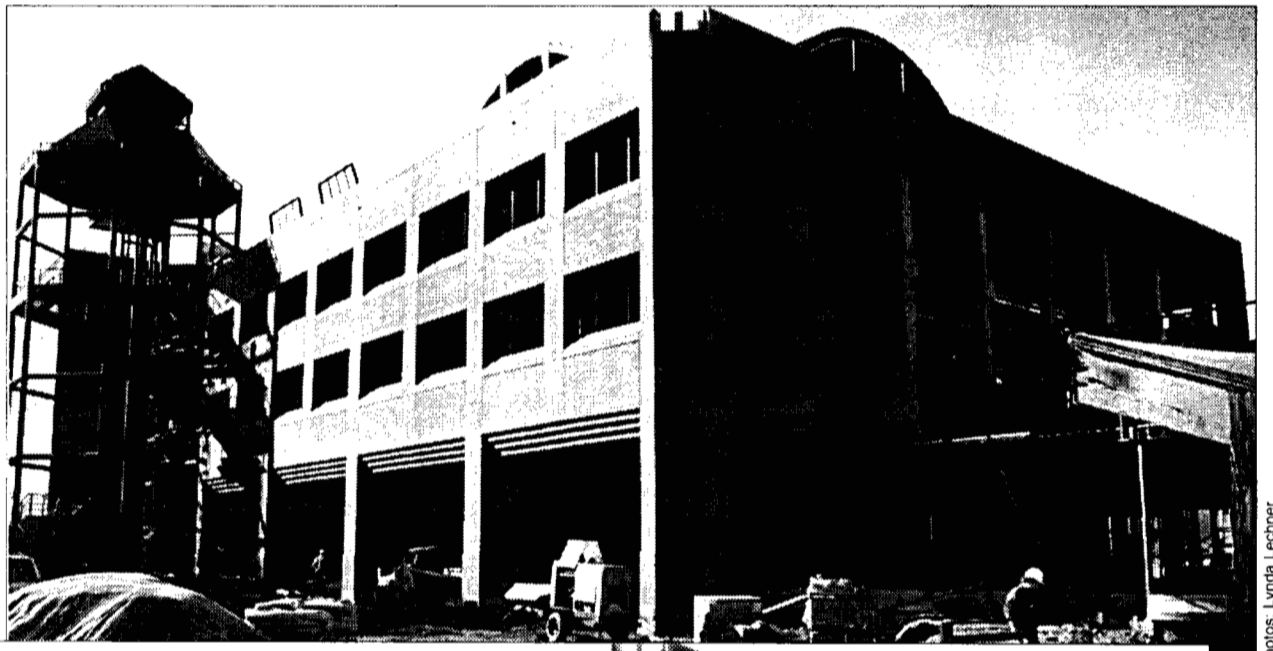
October 1991

First Campaign project nears completion

Excitement is *building*, as the David Lam Management Research Centre takes shape (right). The new facility, which is scheduled to open in March 1992, will be the first Campaign building to be constructed. An artist's rendering (below) shows the Centre on completion.

Other World of Opportunity Campaign buildings slated for sod turnings, cornerstone ceremonies and openings in the coming year include CICSR (Centre for Integrated Computer Studies and Research), First Nations Longhouse, Green College, the Morris and Helen Belkin Art Gallery, and the Chan Shun Performing Arts Centre.

In all, nine buildings will be constructed during the next decade, made possible by Campaign funds.



Photos: Lynda Lechner

Inside....

- Retired Vancouver broadcaster Bill Bellman donates \$1 million to the First Nations Longhouse.
- UBC launches its first annual Faculty and Staff Campaign.

Sense of Community stressed**Campus campaign launched**

The World of Opportunity Campaign has come home through the launch of a Faculty and Staff Development Campaign this fall.

To date, the campaign has raised more than \$200 million toward a projected goal of \$250 million. There is a wide range of prospective donors yet to be approached, including the campus community as well as international donors, alumni, and private and corporate donors who have indicated an interest in contributing but have not yet done so.

"This will be a real hands-on campaign," said Law Professor Dennis Pavlich, volunteer chair of the Faculty and Staff Development Campaign. "Donors will be able to contribute to projects not yet fully funded, such as the Institute of Asian Research, First Nations Longhouse, Centre for Research in Women's Studies and Gender Relations, the new Library Centre, as well as chairs and professorships."

Pavlich said employees may also contribute to projects created by various campus units.

"In this event, donations might support projects such as library acquisitions, scholarships, research projects and other initiatives. This is an opportunity for the entire campus to join together in a real sense of community. And, of course, each donation will be matched dollar-for-dollar by the provincial government."

So far, President David Strangway, the vice-presidents, associate vice-presidents and deans have had a 100 per cent participation rate. They, along with other faculty and staff members, have contributed almost \$500,000 to the Faculty and Staff Development Campaign.

"The World of Opportunity Campaign has been remarkably successful," said Pavlich.



Photo: Daryl Kahn Cline

Professor Dennis Pavlich is chairing the Faculty and Staff Campaign.

"The introduction of the campus campaign provides us with another clear opportunity to commit ourselves to the development of our university, and to demonstrate this commitment to the outside community which has supported us so generously."

Campaign projects

During the next year, faculty and staff members, as well as people who have not yet contributed to the Campaign, are invited to contribute to projects which are partially or nearly funded.

Campus Development

It is anticipated that UBC's current campaign building projects will create 1,200 person years of work in the construction industry. Buildings still requiring funding are the following:

Creative Arts Facility to provide studio space for students and faculty in fine arts, music and theatre. A production area, film theatre, costume design facilities, a studio theatre and a scene shop will be constructed, providing a multi-media environment where creativity can flourish.

New Library Centre to address an urgent need for more space to house the expanding collection, for new storage systems and technology so that users can obtain information easily from the Library's world-wide networks. A new building will be constructed as the first phase of the long-term plan for the library system.

First Nations Longhouse to be the first west coast longhouse constructed as an integral part of a university campus, and the focus of First Nations student activities at UBC.

Institute of Asian Research to include regional centres to focus on Chinese Studies, Japanese Studies, Korean Studies, South Asian Studies and Southeast Asian Studies. In addition, a Centre for Islamic Studies will be established to begin exploring the impact of this cultural force on world developments.

Research and Discovery

It is UBC's mission to enhance research capabilities across all disciplines, supporting the recruitment and development of leading faculty to pioneer research and exchange knowledge internationally. More than 100 academic endowments, chairs, scholarships and multi-disciplinary centres have been

Faculty and staff donors

"I'm pleased to support the President's Fund which will, in part, establish entrance scholarships enabling the university to attract the brightest students in B.C. and across Canada."

*Byron Hender
Executive Coordinator, Student &
Academic Services*

"We've had a tremendous response to the A.D. Scott Fellowship project, with contributions from colleagues and former students across campus, from all over Canada and from several other countries. Our alumni were especially attracted by the opportunity to honor one of their mentors and provide for other students to follow in their footsteps."

*John Helliwell
Head, Department of Economics*

"Faculty, staff, students, family and friends have generously supported the Rick Sample

**Helliwell**

Memorial Fund as a way of honoring the memory of Rick Sample, as well as an opportunity to annually provide an exceptional undergraduate with a research experience in creating an innovative computing environment."

*Maria Klawe
Professor and Head,
Computer Science Department*

**Klawe**

"It was a great honor to be awarded the Killam Research Prize and Jacob Biely Faculty Research Prize in 1989. With the prize money and matching contributions from the Faculty of Commerce and B.C. Government, it was possible to endow a fellowship for PhD candidates. In this way, the inter-generational transfer of learning from which I benefitted can be continued."

*William Stanbury
UPS Foundation Professor of Regulation and Competition Policy, Faculty of Commerce and Business Administration*

established through the World of Opportunity Campaign, including the following which are partially funded or nearly funded:

- Chair in Aids
- Chair in American Studies
- Travelling Research Fellow in Art History
- Chair in Audiology and Speech Sciences
- Chair in Canadian Studies
- Chair in Computer Engineering
- Chair in Computer Integrated Design and Construction
- Chair in Conflict Resolution
- Stephen Drance Chair in Ophthalmology
- Netherlands Studies Endowment
- Chair in Fisheries/Oceanography
- Chair in Geriatric Dentistry
- Professorship in Health Promotion
- Chair or Professorship in International Development
- Judaic Studies Endowment
- Hugh Keenleyside Chair in Canadian Diplomacy
- Gobind Khorana Chair in Biological Chemistry
- Chair in Landscape and Liveable Environments
- Centre for Literacy and Technology
- Elizabeth Kenny McCann Chair or Professorship in Nursing
- Chair in Pharmacy Administration
- Chair in Plant Biotechnology
- Chair in Spinal Cord Physiology
- Warren Chair in Nuclear Physics
- Chair in Women and Law
- Disability Resource Center
- MAGIC (Media and Graphics Interdisciplinary Centre)
- Centre for Applied Ethics
- Centre for Health Services and Policy Research
- Art Gallery Endowment
- Food Quality and Management Centre
- Centre for Research in Women's Studies and Gender Relations

Major Donors to the World of Opportunity Campaign

As of September 30, 1991

The University of British Columbia is pleased to recognize the following donors to the World of Opportunity campaign.

Recognition is also gratefully extended to the **Government of British Columbia** which has expressed its commitment to higher education by matching gifts to the Campaign, and to the **Vancouver Foundation** for matching gifts to the President's Fund Opportunity Endowment.

The full value of the donor gifts, plus matching contributions, are gratefully acknowledged below.

\$10,000,000 or more
including matching funds

Chan Foundation of Canada
Cecil H. Green
Students of The University of British Columbia
Peter Wall

\$2,000,000 to \$9,999,999
including matching funds

Alcan Aluminium Limited
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Estate of Hugh M. Brock
British Columbia Telephone Company
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Walter C. Koerner*
L.O.M. Western Securities Ltd. & Peter M. Brown

Estate of Gladys E. Laird
The Honourable David C. & Dorothy Lam
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The Real Estate Foundation of British Columbia
Ritsumeikan University
Department of the Secretary of State of Canada

The Sauder Family
Mrs. Gordon T. Southam
UBC Alumni Campaign (continuing)
Vancouver Foundation
Workers' Compensation Board
W. Maurice Young
Anonymous

\$1,000,000 to \$1,999,999
including matching funds

Alias Research Inc.
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B.C. Hydro & Power Authority
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The Hamber Foundation
Estate of Elsie May Harvey
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\$500,000 to \$999,999
including matching funds

B.C. Friends of Schizophrenics
British Columbia Lung Association
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Bank of Nova Scotia
The Bentall Foundation
Estate of Winnifred E. Boyes
Canada Trust
Canadian Imperial Bank of Commerce
Canfor Corporation
Joan Carlisle-Irving
Chan Tat Chee Memorial Fund
Mrs. Arnold B. Cliff
Finning Ltd.
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The Heart and Stroke Foundation of British Columbia
Asa Johal
Energy, Mines and Petroleum and the Ministry of the Environment
Multiculturalism and Citizenship Canada
RBC Dominion Securities Pemberton
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UBC Faculty & Staff Campaign (continuing)
Weldwood of Canada Ltd.
Westcoast Energy Inc.
Weyerhaeuser Canada Ltd.
Anonymous

*Gift-in-kind, or partial gift-in-kind

\$250,000 to \$499,999
including matching funds

BC Gas Inc.
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The Noranda Foundation & Noranda Forest Inc.
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Anonymous

\$100,000 to \$249,999
including matching funds

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Andersen Consulting
BC Sugar
Canadian Pacific Forest Products
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Diachem Industries Ltd.
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Senta Wong
W. Robert Wyman
Xerox Canada Incorporated
Anonymous
Anonymous
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\$50,000 to \$99,999
including matching funds

Air Canada
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Dan & Arlene Birch
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Grant D. Burnyeat
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Domtar Inc.
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Rogers Communications Inc.
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Scotia McLeod Inc.
K.D. Srivastava
William T. Stanbury
Peter & Teresa Ufford & Family
UMA Group
Western Forest Products Limited
Anonymous
Anonymous

Other Gifts

Generous support has also been received from the community and alumni, including the UBC Campaign Leadership Committee and Advisory Council, Campus Leadership, and The Wesbrook Society.

\$1 million gift gives Longhouse go-ahead

Construction on the First Nations Longhouse has been given the green light thanks to a \$1 million gift from retired Vancouver broadcaster Bill Bellman.

Bellman, who in 1959 founded CHQM, Vancouver's "good music" station, and CKVU TV, contributed the second \$1 million gift to the longhouse. The first donor to the \$4.6 million World of Opportunity Campaign project was Jack Bell, a retired Vancouver businessman and long-time friend of the university.

The 106-metre-long structure, designed by Larry McFarland Architects, will be a representation of a Salish longhouse in western red cedar with a copper-clad, shed-style roof, upswept at its ends.

UBC native students and staff, their children and elders participated in the design, and describe it as evoking the image of a great eagle.

From one side of the longhouse will emerge the Great Hall for cultural events and public gatherings; on the other, a small Spirit Lodge will accommodate about a dozen people for meditation.

Verna Kirkness, director of the First Nations House of Learning, said Bellman's gift may now make it possible for the project to be completed by next summer.

"The job's not quite finished but we're a long way there," said Kirkness, who added that the longhouse has been an objective of the First Nations House of Learning since it was established at UBC in 1987.

Initially, in the early 1970s, UBC focused on education because British Columbia



Photo: Leza Macdonald

Top row: Bill Bellman, President David Strangway, Mrs. Bill Bellman.
Bottom row: First Nations elders Vince Stogan and Mini Croft, Alice Strangway, Verna Kirkness.

had fewer than two dozen certified native teachers. That program now boasts about 140 certified First Nations teachers, and a graduate program has been added.

Currently, First Nations student enrolment at UBC is estimated to be 250. About 40 students have enrolled for graduate studies, 15 have earned their Masters degrees, and a year ago, UBC graduated its first native student with a doctorate. The university shares the commitment to increasing enrolment to a projected total

of 1,000 by the year 2000, enabling more First Nations students to enter a wide range of faculties and academic disciplines.

Kirkness is negotiating with several potential donors for the remaining funds required. She is confident that the federal government will soon make a financial commitment to the project.

A fund-raising campaign is also planned among some 200 native bands within the province, this fall.

Campaign news briefs



Photo: Leza Macdonald

Pictured L to R: The Right Honourable John Turner, Director, Curragh Resources Inc.; Curragh President and Chief Executive Officer Clifford H. Frame; Leslie Peterson, Chancellor of UBC; The Honourable Jack Weisgerber, B.C. Minister of Energy, Mines & Petroleum; UBC President David Strangway.

The University of British Columbia paid tribute to **Curragh Resources Inc.** for its \$500,000 gift to establish the Clifford H. Frame Chair in Mining and Mineral Process Engineering.

The academic appointed to the chair will work closely with other academics, industry and government to develop innovative technology to ensure that Canada's mining industry remains internationally competitive and recovers mineral resources in a judicious manner.

A \$300,000 endowment fund established through a contribution by **Northwood Pulp**

and **Timber** of Prince George and B. C. Government matching funds will create ten new scholarships.

The scholarships will be awarded to students pursuing their studies in forestry, engineering and commerce. Four additional general scholarships will be awarded and for all of the scholarships, preference will be given to students who have attended a secondary or post-secondary institution in northern British Columbia.

"We have many employees who are UBC alumni and we are delighted to support scholarships which will enable us to benefit from the availability of university graduates," said C. T.

Hazelwood, President and CEO. "In our industry, we have a particular need for people with education in the fields of chemical engineering, forestry and environmental studies."

Northwood has supported post-secondary education for many years through scholarships and donation programs. Many of the company's scholarship programs have been used by students to attend UBC.

Minister of Health Bruce Strachan officiated at the opening of UBC's **Centre for Health Services and Policy Research** -- a project of the World of Opportunity Campaign. The centre will be a focal point for research at UBC on health policy, population health, health human resource planning, health services research, and health care technology assessment. It will complement the educational and research activities of a variety of UBC faculties and departments.



Photo: UBC Media Services

Minister of Health Bruce Strachan spoke at the opening of the new Centre for Health Services and Policy Research.

Arthritis chairs honor pioneers

The Arthritis Society, in cooperation with UBC's World of Opportunity Campaign, has endowed two chairs and a research endowment fund totalling \$2.5 million to further research into arthritis -- an overall term used to describe more than 100 different conditions that affect the joints and connective tissue.

A recent Canada health survey concluded that nearly 16 per cent of Canadians suffer from some form of arthritis -- a number equivalent to the combined populations of Vancouver and Toronto.

The endowed chairs have been named to honor two British Columbians who have pioneered the crusade to recognize, treat and ultimately cure arthritis.

The Mary Pack - Arthritis Society Chair in Rheumatology will enable UBC to recruit an expert in the most up-to-date technology in the laboratory to help unlock some of the questions regarding the

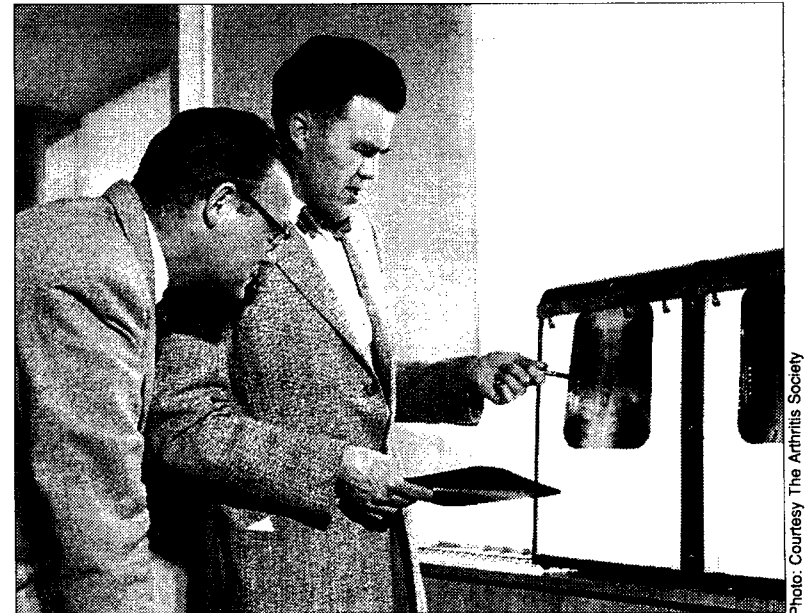
cause of arthritis.

The Harold Robinson - Arthritis Society Chair in Arthritic Diseases is the first endowed chair in Canada in Rehabilitation Medicine. It will promote a coordinated approach to researching questions related to the treatment of arthritis with an emphasis on the lifestyle consequences of arthritis, wellness, and how individuals can be better encouraged to participate in their own care.

Mary Pack - Founder of the Canadian Arthritis and Rheumatism Society

The success of Mary Pack's efforts has benefitted hundreds of thousands of people with arthritis and made Canada a world leader in research and treatment of the disease.

A native of England, Mary Pack emigrated to Canada at the age of 18. While teaching physically disabled children in Vancouver, Miss Pack became



Dr. Harold Robinson (right) and another physician examine a patient's x-ray, late 1950s.

concerned about the effects of arthritis and the lack of facilities for treatment of the disease. Several of her pupils had arthritis and at the same time, her mother was also developing a form of the disease.

As a result of some preliminary research, Miss Pack found that few concerted and detailed efforts were being made to discover the cause or cure for arthritis, even though thousands of Canadians were afflicted.

Mary Pack spearheaded a campaign which in 1948, resulted in the formation of The Canadian Arthritis and Rheumatism Society (CARS), the original name by which The Arthritis Society was known. Today, The Arthritis Society has offices in Toronto, as well as divisions in all the provinces and territories. The Society provides help and assistance for people affected by arthritis -- one person in seven, one family in three.

Dr. Harold S. Robinson - Developed team approach to arthritis control

A recognized leader in arthritis research in Canada, Dr. Harold Robinson is widely known for his role in developing a team approach to arthritis control. In this approach, all members of a treatment team -- physicians, nurses, social workers, physiotherapists and occupational therapists -- could work together more effectively in the best interests of the patient.

To this day, Dr. Robinson's team approach is the basis by which arthritis treatment is delivered by the B.C. and Yukon division of The Arthritis Society.

His father, Dr. Dean Robinson, was one of the pioneers in the study of arthritis care.

Sharing his father's interest and dedication, Harold Robinson became one of the first five doctors to receive a one year fellowship from CARS. In 1953, he was appointed as Medical Director, a position he maintained until his retirement, 30 years later.



Mary Pack and the Canadian Arthritis and Rheumatism Society's first ambulance, 1949.

Distinguished scholar heads Women's Centre

Veronica Strong-Boag has been appointed director of UBC's newly created Centre for Research in Women's Studies and Gender Relations. The centre is a \$2-million project of the World of Opportunity Campaign.

The main goals of the centre are interdisciplinary research in Women's Studies and Gender Relations, graduate education and community liaison.

"We are fortunate in being able to recruit Professor Strong-Boag as the centre's founding director," said Dan Birch, vice-president, academic and provost. "Few, if any, Canadians could offer as much potential for intellectual leadership in the field."

Strong-Boag joined UBC July 1 from Simon Fraser University, where she held a joint

appointment in the Department of History and the Women's Studies Program. Her current research interests include women in post-confederation Canada and women, the family and suburban development from post World War II to 1960.

She is a member of several distinguished organizations including Resources for Feminist Research, the Canadian Women's Studies Association and the Canadian Research Institute for the Study of Women.

In 1988, she received the Sir John A. Macdonald Prize for the best book in Canadian history awarded by the Canadian Historical Society. A year earlier, she was co-winner of the Laura Jamieson Prize, presented by the Canadian Research Institute for the Advancement of Women, for best feminist book



Strong-Boag

by a Canadian author.

"UBC has many outstanding scholars working in Women's Studies and Gender Relations," Birch said. "The coming year will see them take a much higher profile with the approval of a Women's Studies major in the BA degree, and the establishment of the Centre for Research in Women's Studies and Gender Relations."

Opportunity

The UBC Campaign News

UBC Development Office

Editor:

Debra Sweeney

Contributors:

Rosemary Ogilvie

Production/Design:

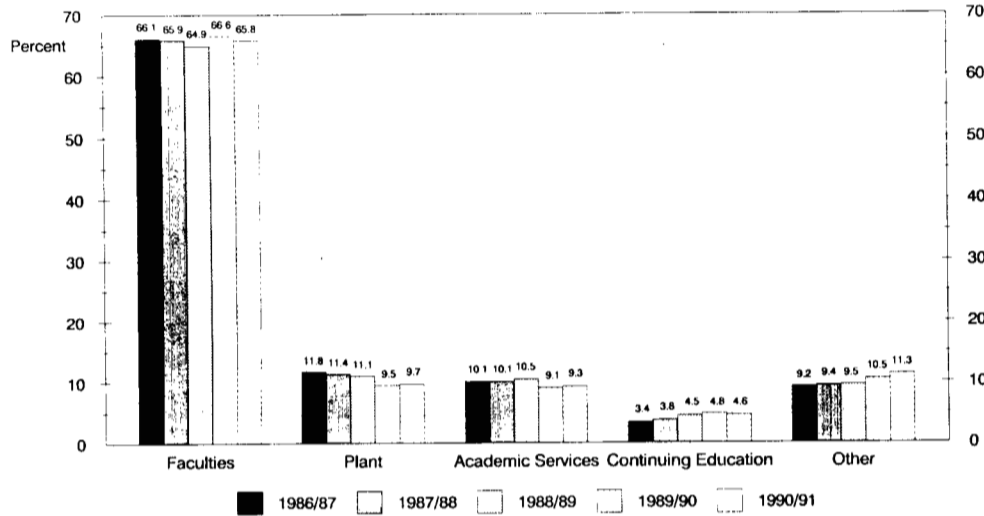
William Jamieson

REPORT OF THE VICE-PRESIDENT,
ADMINISTRATION AND FINANCE

1990-91



Faculties and Administrative Units as a Percent
of Total General Purpose Operating Expenditures
1986/87 to 1990/91



Faculties includes ETA and retroactive salary increases.
Academic Service includes Computing Centre, Academic Services & Library.
Continuing Education comprises CCE and non-credit programs, which includes Commerce, Business Administration, Health Sciences, etc.
Other includes Student Aid, Student Services, Administration, General & Other.
Expenditures are net of carry-forward.
Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

UBC/Office of Budget and Planning

ment collected in annual installments of about \$12 million over a period of seven years from 1988-89 to 1994-95. The UBC Major Campaign continues in order to achieve its goal. The campaign funds will provide the facilities, scholarships, endowed chairs and equipment described in the case statement for the "World of Opportunity" campaign.

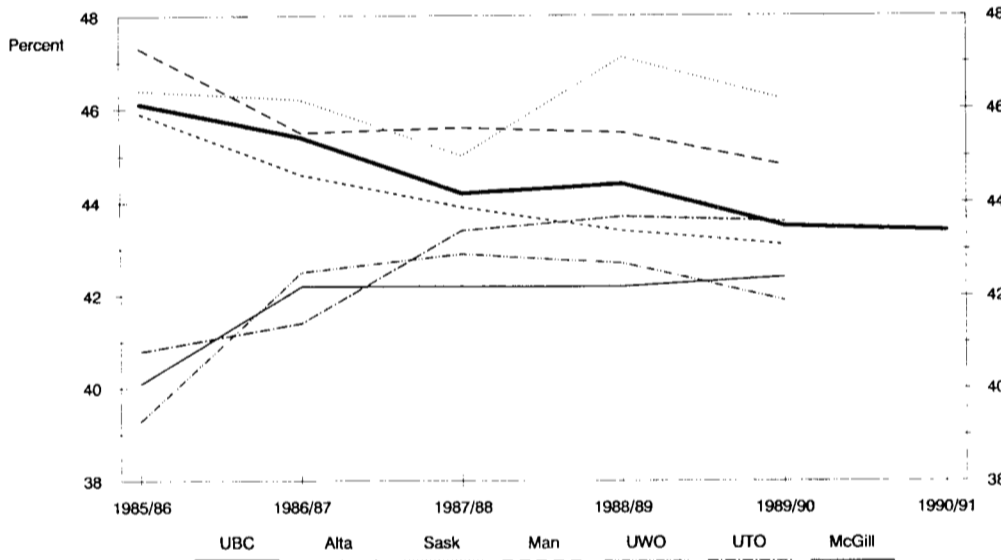
In 1990, the University initiated a process to develop a comprehensive Master Plan for the Campus. Here are four objectives of the Plan. The Plan is required to accommodate new construction proposed over the next ten years. This includes eight facilities funded by the World of Opportunity Campaign, approximately ten projects funded by the provincial government, and approximately fifteen projects funded from other sources. The Plan is designed to take advantage of the current building program in order to complete the academic campus, and, concurrently, to solve existing major functional, orientation and circulation inadequacies. The Plan is intended to provide a coherent framework for the integration of space, infrastructure and service needs in a manner which maximizes the funds available to the University. The Plan is intended to provide comprehensive guidelines for ongoing development on the campus.

At the present time, an extensive draft proposal for the main (Academic) campus has been tabled for discussion. The projects sited in this proposal include academic, research, housing, cultural, library, recreational, parking and service facilities. Some of these projects are already completed, some are in the design stage, others remain to be planned. The Master Plan will proceed this fall with an analysis and proposals for future development guidelines for the central, southern, and eastern portions of the campus. First drafts of this proposal will be presented in January 1992.

A comprehensive Campus Plan in the final draft stage will be assembled in 1992. This will reflect the vision of the Mission Statement and will result in the first physical vision of the completed campus in the University's history.

During the year new endowments accounts were created for scholarships/awards as well as for specific purposes within various departments on campus. The endowment principal funds (scholarships) totalled \$45 million at year end, up \$4.5 million in the year. Other endowment principal funds increased by about \$16.0 million for a total of almost \$100 million at year end. An amount of \$7.4 million is held and managed by the Vancouver Foundation on our behalf. Total endowment principal funds, including those held at the Vancouver Foundation, have grown from \$85.9 million to \$152.3 million since 1985-86. Table 6 displays the changes over this time period. Much of the large increase has been funded by the World of Opportunity Campaign.

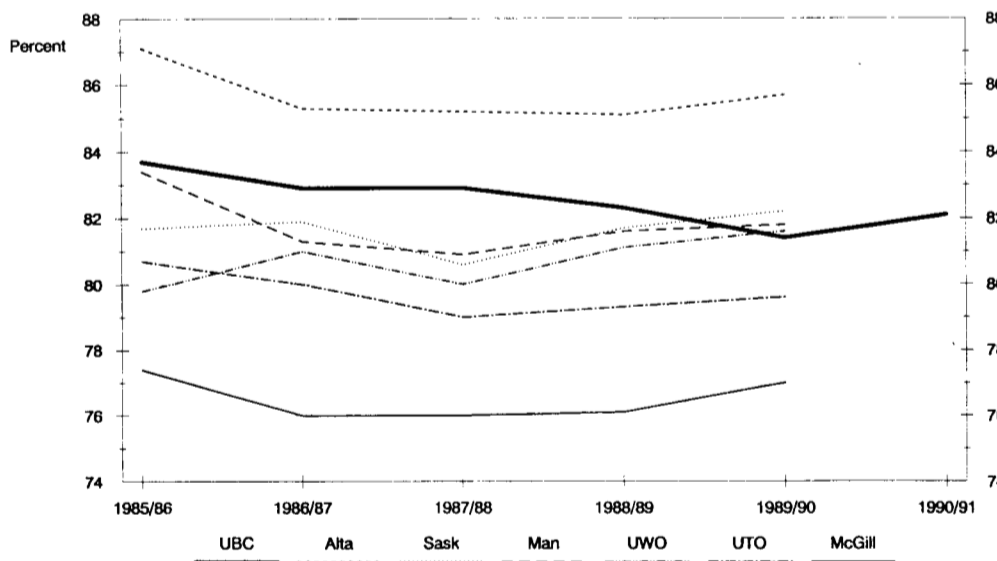
Total Academic Salaries* as a Percent of Total
General Purpose Operating Expenditures
1985/86 to 1990/91



Source: Canadian Association of University Business Officers
* Comprises academic ranks and other instructional staff and student service appointments.
Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

UBC/Office of Budget and Planning

Total Salaries & Benefits as a Percent of Total
General Purpose Operating Expenditures
1985/86 to 1990/91



Source: Canadian Association of University Business Officers
Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

UBC/Office of Budget and Planning

REPORT OF THE VICE-PRESIDENT,
ADMINISTRATION AND FINANCE

1990-91

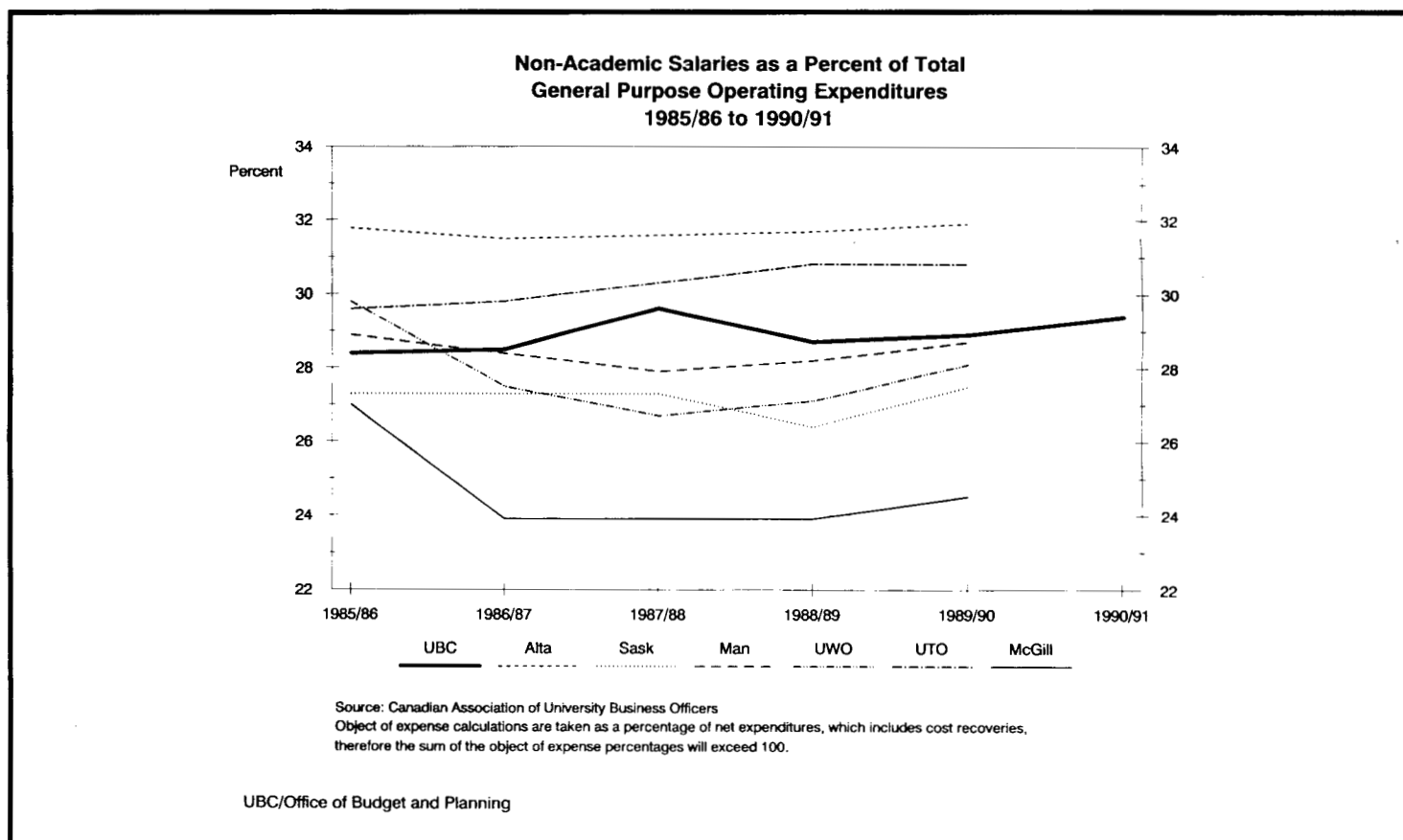
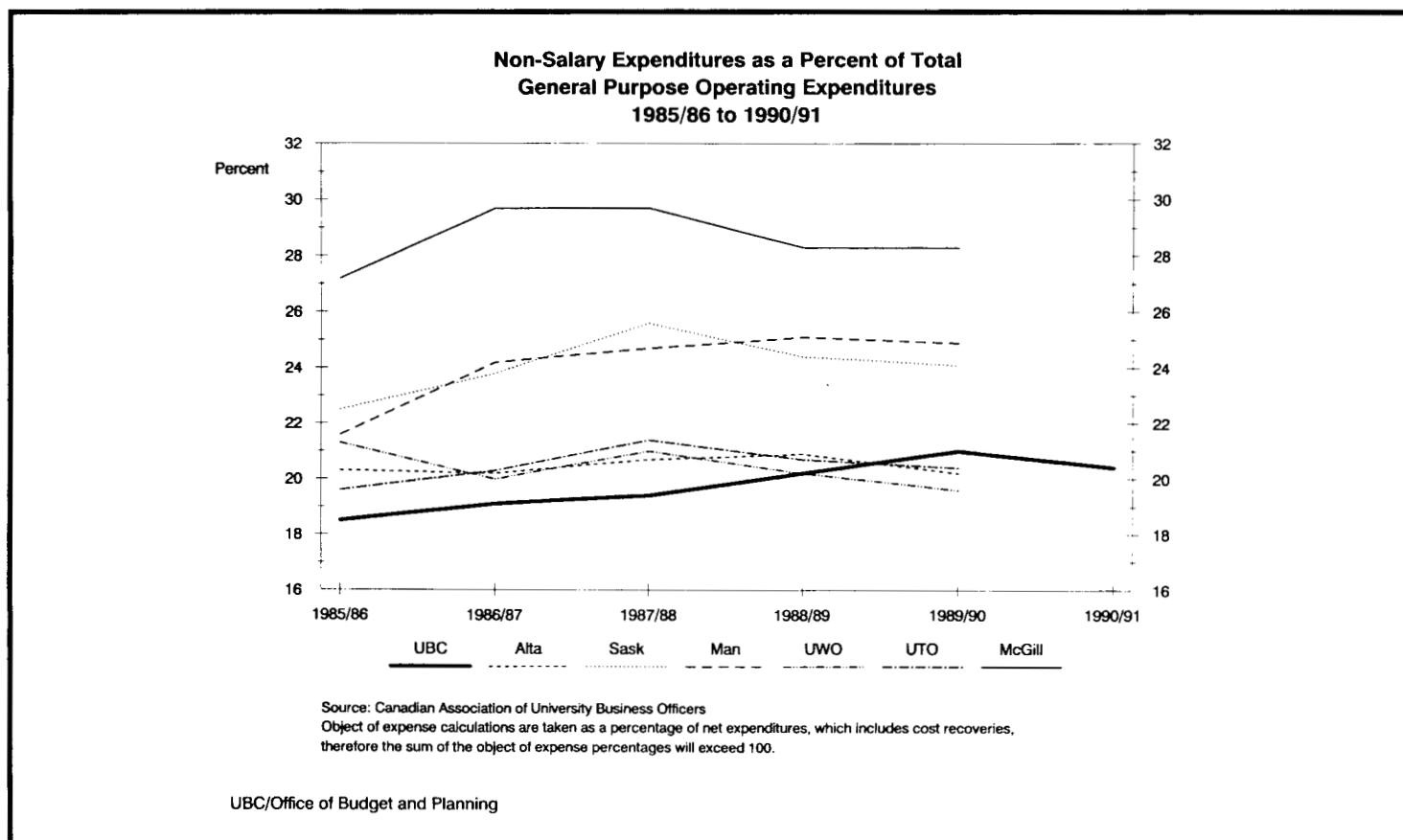


The University through the Staff Pension Plan Investment Committee has undertaken a major review of the Staff Pension Plan Investment Strategy. The review has focused on drafting an expanded investment charter, examining current and alternative investment management structures and conducting a money manager search based on the revised structure proposed by the charter. The purpose of the review is to enhance long term investment performance of the pension fund. Both the faculty and the staff pension plans are being studied by their respective boards to accommodate changes in funding and legislation.

The portion of the new Student Information System which affects the Student Records, the financial accounting records and Award processing was implemented in March, 1991. Incorporated into the new system is the new grading policy. The first phase of the Integrated Human Resources Information System is targeted for implementation in late 1991. This phase will include payroll processing, benefits administration, appointments and human resources information for faculty, staff and students. The Purchasing department has implemented a new Material Management System which includes a new purchasing system and a fixed assets component. Plant Operations has successfully implemented their new Maintenance Management System which replaces the old Work-in-Process system. The FRS Review Project has undertaken to improve specific areas of the Financial Records System (FRS), including the monthly ledger sheet report format. An FRS User Advisory Committee has been formed to provide advise on current and future improvements needed in the FRS.

During the past year, construction was completed on the Botanical Garden - Greenhouse and workshop project and on the University Apartment building development. Construction began on the David Lam Management Research Centre, including a major Food Services Facility (\$11.6 million), the Student Services Centre (an addition to Brock Hall), including a permanent Disability Centre Facility (\$9.5 million), the University Services Building (\$12.1 million), Ritsumeikan/UBC House (\$8.1 million) and the National Centres of Excellence addition to the Bookstore (\$6.8 million). Construction will commence shortly on the West Parkade (\$10.1 million), the First Nations Longhouse (\$4.4 million) and the Centre for Integrated Computer Sciences Research/Computing Sciences Building (\$18.1 million). Eight other major facilities with a total value of approximately \$110 million are in various stages of planning or design.

Acadia House and Sopron House, the 114 unit University Apartments rental complex, was completed in the summer of 1991. The project is part of the University's endeavor to assist new



faculty and staff in dealing with the high cost of housing in the Lower Mainland. The official ribbon cutting ceremony to celebrate the opening was September 3, 1991. The occupancy rate is 100% and overall response to the project has been very favourable.

A Faculty Housing Assistance Program designed to help newly appointed faculty acquire a home in the Lower Mainland was approved at the September 6, 1990 Board of Governors meeting. The Program will be in place for a trial period of three years to June 30, 1993 at which time the Board of Governors may elect to extend the Program. Under the terms of the Program eligible faculty members may obtain either a lump sum, non-repayable amount of \$10,000 or a \$25,000 interest free loan to be repaid over 5 years. During the first seven months

of the Program, 16 faculty received the lump sum payment and 15 received interest free loans. During the first five months of fiscal 1991/92, 43 faculty have participated in the Program.

The UBC Real Estate Corporation, a wholly owned subsidiary of the university, has substantially completed the first phase of active development of the Hampton Place project. This first phase includes an 86 unit apartment/townhome development on campus land which will be completed by the fall of 1991. The second lot of the Hampton Place project was successfully tendered in the summer of 1991. Construction of this townhome development is expected to commence in the fall of 1991. The Company has also undertaken a number of projects related to the University's real es-

tate holdings. The principal objective of the Corporation is to take responsible and pragmatic steps to make good use of the University's land holdings, not required for academic needs in the foreseeable future, to improve UBC's long-term capital and endowment programs.

UBC Research Enterprises Inc. was incorporated as a wholly owned subsidiary of the University in April 1990. The purpose of the Company is to encourage and promote the creation, testing, development, production and commercialization of intellectual property owned by the University. The Company will work to facilitate and hasten the transfer of technology from the University to the private sector. In the past year the Company's efforts focused on prototype development and commercial assessment of selected research projects.

Calendar

October 7 –
October 19

Orthopaedics Grand Rounds

Reconstructive Forefoot. Dr. Richard J. Claridge. Eye Care Centre, 910 W. 10th, 3rd fl., at 7:30am. Call 875-4646.

Wednesday Noon Hour Concert

Jerry Domer, oboe; Jesse Read, bassoon; Martin Berinbaum, trumpet. Recital Hall at 12:30pm. \$2 at the door. Call 822-5574.

Faculty Development Seminar

Teaching Effectiveness/Recent Research On The Brain. Robert Aiken, Curric. Consultant, Vancouver City College. Angus 33 from 3:30-5pm. Call 822-9149.

Religious Studies Lecture/Demonstration

Dogen's Zen: His Philosophy And Practices. Zen Master Hosaka Takeo. Interpreter, Mrs. Hosaka. Asian Centre Auditorium from 7-9:30pm. Call 822-3357.

THURSDAY, OCT 11

Pharmacology Seminar

Myocardial Performance of Diabetic Hypertensive Rats. Dr. Soter Dai, Pharmaceutical Sciences. IRC #2 from 11:30am-12:30pm. Call 822-2575.

Experimental Medicine Lecture

Use Of Fluorine Techniques To Determine Intracellular Free Mg²⁺.

Dr. Long Jun Dai, Nephrology, Dept. of Medicine. University Hospital, UBC Site ACU-GF279 from 4:30-5:30pm. Call 822-7215.

School of Nursing Marion Woodward Lecture

Wired For The Future: Can It Promote Community Health? Professor Nancy Milio, PhD, Health Policy, Nursing, U. of N. Carolina, Chapel Hill. IRC #6 at 8pm. Call 822-7417.

Chemistry Lecture

The Prediction Of Binding Constants In Aqueous Solution For Biologically Important Molecules. Professor Dudley H. Williams, Cambridge U. Chem. 124 (central wing) at 2:30pm. Call 822-4511/6931.

Co-operative Education Information Meeting

International Association For The Exchange Of Students For Technical Experience. Janet Land, IAESTE Representative/Chair. For students of engineering, the sciences, and related fields who are interested in working overseas. IRC #3 from 12:30-1:30pm. Call 822-6271.

Faculty Development Symposia

Professional Schools. Panel comprised of past/present winners of university teaching prizes who will address issues surrounding teaching/learning. Angus 104 from 3:30-5pm. Call 822-9149.

President's Lectures On Classics

Roman Mosaics/Mosaicists. Professor Katherine Dunbabin. McMaster U. Lasserre 102 at 12:30pm. Call 822-5675.

University Computing Services Micro Lunch

Database Services. Frank Flynn. Computer Science 460 from 12:30-1:30pm. Call 822-8938.

Political Science Lecture

Canada's Constitutional Crisis: How Did We Get Here? Dr. Alan Cairns, DPhil, Political Science. Chair: Dean Lynn Smith, Law. Curtis 101/102 from 12:30-2pm. Call 222-5238.

Obstetrics/Gynecology Grand Rounds

Genes And Cancer. Dr. Tom Ehlen. University Hospital, Shaughnessy Site D308 at 8am. Call 875-2171.

Animal Science Seminar

Using Behaviour To Assess Welfare. Dr. Ian Duncan, Acting Dir., Centre for Animal Welfare, U. of Guelph. MacMillan 158 from 1:30-2:30pm. Call 822-4593.

Chemical Engineering Seminar

Oxidative Coupling Of Methane. Shanna Knights, grad student. Chemical Engineering 206 at 3:30pm. Call 822-3238.

Fluids/Thermal Bag Lunch

Informal Talk. Professor Ashok Malhotra, Mechanical Engineering, India Inst. of Technology. Civil/Mechanical Eng. 1212 from 12:30-1:30pm. Call 822-5562.

Economics Seminar

Real Business Cycle Methodology. Mark Watson, Northwestern U. Buchanan D225 from 4-5:30pm. Call 822-2876.

University Computing Services Workshop

MS-DOS Workshop. Charles Tremewen. UCS Annex from 9:30am-12:30pm. Fee: \$50, students \$37.50. Register CSI 209. Call 822-8938.

Vancouver Institute Saturday Night Lecture

Insect Semiochemicals: A Smelly Business. Dr. Keith Slessor, Dept. Chemistry/Biochem, SFU. IRC #2 at 8:15pm. Call 822-5675.

UBC Speakers Bureau

Would your group like to know more about topics ranging from fruit flies to computers of the future? More than 400 topics to choose from. Call 822-6167 (24-hr. ans. machine).

Graduate Student Centre

Live entertainment every Friday in the Fireside Lounge from 8-11pm. No cover. Call 822-3203.

Carpool Matching

A service for faculty, staff and students. Call Karen Pope, Dean's Office, Applied Science at 822-3701 and find your area match.

Call For Former UBC Athletes

Athletics is updating its mailing list of former athletic team players: originators/contributors to programs in place today. If you qualify or are knowledgeable in the location of any other past player, call 822-8921 after 4:30pm.

Fine Arts Gallery

Open Tues.-Fri. from 10am-5pm. Saturdays 12pm-5pm on. Free admission. Main Library. Call 822-2759.

Health Sciences Bookshop Open Saturday

The Bookshop is open Mon.-Sat. from 9:30am-5pm in the Medical Student/Alumni Centre at Heather and 12th Ave. Call 879-8547.

Executive Programmes

Business seminars. Oct 7-11: Essential Management Skills, \$1,375. Oct. 15-16: Assertiveness for Managers, \$495. Oct. 16-18: Logistics Management, \$950. Oct. 17-18: Guidelines for the New Manager, \$495. E.D. MacPhee Executive Conference Centre. Call 822-8400.

Centre for Continuing Education Programs

Professional Development Series

Oct/Nov Workshops for Practising Language Teachers: Teaching for English in Japan, Videotaping in the Language Class. Stimulating Student Talk/Public Speaking/Debating. Tues. evenings from 7-9pm. Call 222-5208.

Reading, Writing/Study Skills Centre

Non-credit courses in grammar, composition, study skills, reading for speed/comprehension/business writing/reports/proposals.

Courses begin Oct. 1 and continue. Call 222-5245.

Language Programs/Services

Non-credit courses in beginner, intermediate or advanced levels of conversational French, Spanish, Japanese, Mandarin and Cantonese have begun. 10-weeks, Tuesday/Thursday evenings and Saturday mornings. Call 222-5227.

Statistical Consulting/Research Laboratory

SCARL is operated by the Department of Statistics to provide statistical advice to faculty and graduate students working on research problems. Forms for appointments available in Ponderosa Annex C-210. Call 822-4037.

Muscle Soreness Study

If you primarily walk for exercise please call Donna at Rehab Medicine. Volunteers 20-45 years required for research study. Call 822-7571.

High Blood Pressure Clinic

Volunteers (over 18 years) needed, treated or not, to participate in clinical drug trials. Call Dr. J. Wright or Mrs. Nancy Ruedy in Medicine at 822-7134.

Seniors Hypertension Study

Volunteers aged 60-80 years with mild to moderate hypertension, treated or not, needed to participate in a high blood pressure study. Call Dr. Wright or Nancy Ruedy in Medicine at 822-7134.

Herpes Research Study

Participants needed for treatment studies of shingles (herpes zoster) and first herpes simplex infections, with new antiviral agents. Also ongoing study for males 18-45 years with recurrent herpes simplex. Dr. Stephen Sacks, Medicine, sponsoring physician. Call 822-7565 or leave your name/number at 687-7711, page 2887.

Heart/Lung Response Study

At rest and during exercise. Volunteers age 45-75 years, all fitness levels, required. No maximal testing. Scheduled at your convenience. Call Fiona Manning, School of Rehab. Medicine, 822-7708.

Lung Disease Study

Subjects with emphysema or fibrosis needed to investigate means of improving lung function without drugs. Call Fiona Manning, School of Rehab Medicine, 822-7708.

Bereavement Study

Participants needed for a study investigating the long-term effects of adolescent bereavement. Must have lost either parent at least five years ago, and have been between 13 and 17 years at the time of the loss. Two one-hour interviews required. Please call Ann McKintuck in Nursing at 224-3921/3999.

Retirement Study

Women concerned about retirement planning needed for an 8-week Retirement Preparation seminar. Call Sara Comish Counselling Psychology at 931-5052.

Personality Study

Volunteers aged 30 or more needed to complete a personality questionnaire. Required, 2 visits, about 3 hours total. Participants receive a free personality assessment and a \$20 stipend. Call Janice in Dr. Livesley's office, Psychiatry, Detwiller 2N2, 822-7895.

PMS Research Study

Volunteers needed for a study of an investigational medication to treat PMS. Call Doug Keller, Psychiatry, University Hospital, Shaughnessy site at 822-7318.

Hair Loss Research

Women aged 19-49 years experiencing moderate hair loss, crown area only, are needed for study. Must be able to attend 1-2 times weekly for 9 months. Honorarium paid. Call Sherry in Dermatology at 874-8138.

Dermatology Acne Study

Volunteers between 14-35 years with moderate facial acne needed for 4 visits during a three month period. Honorarium paid. Call Sherry at 874-8138.

Stress/Blood Pressure Study

Learn how your body responds to stress. Call Dr. Wolfgang Linden in Psychology at 822-3800.

Surplus Equipment Recycling Facility

All surplus items. Every Wednesday, 12-3pm. Task Force Bldg., 2352 Health Sciences Mall. Call 822-2813.

Student Volunteers

Find an interesting and challenging volunteer job with Volunteer Connections, Student Counselling and Resources Centre, Brock 200. Call 822-3811.

Narcotics Anonymous Meetings

Every Tuesday (including holidays) from 12:30-2pm, University Hospital, UBC Site, Room M311 (through Lab Medicine from Main Entrance). Call 873-1018 (24-hour Help Line).

Fitness Appraisal

Administered by Physical Education and Recreation through the John M. Buchanan Fitness and Research Centre. Students \$25, others \$30. Call 822-4356.

Faculty/Staff Badminton Club

Fridays from 6:30-10pm in Gym A of the Robert Osborne Centre. Cost is \$15 plus library card. Call Bernard at 822-6809 or 731-9966.

Botanical Garden

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Open from 10am-5pm daily. Free admission on Wednesdays. Call 822-6038.

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Deadline for paid advertisements for the October 17 issue is noon, October 7.

For information, phone 822-3131

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Students introduced to university experience

By CHARLES KER

Back in 1910, a dozen towns vied for the UBC campus.

Among them, Kamloops boasted a clear, bracing sunny atmosphere and a winter cold enough for ice hockey.

Nelson insisted it be the site because Kootenay Lake provided a great rowing course and the British Empire had been built on rowing, cricket and football.

These were just a few historical tidbits dished out to a small group of enquiring first-year students participating in a new undergraduate lecture series.

Following the lead of universities in the U.S., UBC has launched the First Year Experience Program, aimed at helping new students adjust to university life.

"Coming into an academic community like ours, which is large and unfamiliar, can cause some students to develop a sense of alienation," said Ken Kush, director of UBC's Student Counselling and Resources Centre.

"This program is designed to provide them with a sense of connectedness and give them a handle on why they are here, what the university experience is all about and how to succeed personally and academically."

During the first two months of classes, 32 students from the Faculty of Arts gather each week with a handful of faculty to discuss a range of topical and practical issues. Following a one-hour presentation by a faculty member on a specific topic, participants split up into four groups to further analyze what they've learned.

Graeme Wynn, associate dean of Arts, explained the history of univer-

sities and UBC in the opening session. His presentation ended with a name-game in which students familiarized themselves with the places of deans, department heads, senior administrators, students and support staff in the university.

"It helps give students a better understanding of where they fit into the overall university structure and also helps them make the most of their time here," said Wynn.

Other lecture themes include: getting the most from lectures, maintaining a balanced lifestyle, interpersonal style and stereotypes, the importance of career planning and living in a multicultural society.

First-year experience programs have been operating in the U.S. for more than 10 years with some schools having up to 1,200 students enrolled in "freshman experience" courses. Kush added that results show the courses boost students' confidence and overall academic achievement.

Among the Canadian universities which have implemented similar programs are the universities of Calgary, Western Ontario, Prince Edward Island, Victoria and Simon Fraser University.

Wynn hopes the UBC program, introduced as a pilot-project this year, will grow in popularity, along with the university's mentoring programs. In the Faculty of Arts, mentoring matches some 250 scholarship winners and residents of communities in the interior of B.C. with 45 faculty volunteers.

More than 130 mentors — graduate students, post-doctoral fellows and faculty — have so far volunteered for the Faculty of Science mentoring program.



Photo by Gavin Wilson

UBC Bookstore Director Debbie Harvie sees the bookstore as the "department store for campus."

Bookstore largest in Canada

By GAVIN WILSON

Move over, Duthie's.

With 80,000 titles on its database, the UBC Bookstore is already one of the largest bookstores in North America.

Now, a survey shows that the bookstore is the seventh largest college or university bookstore in North America and the largest in Canada in terms of sales volume.

According to figures released by the National Association of College Stores, UBC ranks higher than bookstores at much larger universities, such as Penn State, with 59,000 students, or Ohio State, with 55,000.

UBC is ranked 23rd overall in terms

of enrolment, but with total net sales of \$24.8 million, claims seventh place in sales volume. That is up from ninth place the previous year.

Topping the list is the Harvard-MIT bookstore, with total net sales of \$62.7 million. The University of Toronto bookstore, UBC's closest rival in Canada, is ranked 12th overall in North America.

"We're sixth largest in terms of general interest books and that's something to be very proud of," said UBC Bookstore Director Debbie Harvie. "Bookstores are known by their general book listings."

Another reason for the high sales volume at the UBC Bookstore is that

the campus is relatively remote from the rest of the city, said Harvie.

"We're the department store for campus," she said, pointing out that the bookstore sells everything from toothbrushes to computer work-stations.

Computer sales alone are worth \$8 million each year and the bookstore also has stationery, clothing, gifts and souvenirs, a post office, and "one of the best art departments in the Lower Mainland," she said.

As well as serving the campus community, the bookstore attracts customers from throughout the Lower Mainland and tourists who visit campus or attend conferences here.

Animal fat culprit in obesity

By ABE HEFTER

Animal fats versus plant fats. The difference in the way the body burns off the two could have tremendous implications for people who are trying to lose weight, according to UBC researcher Peter Jones.

Jones, an assistant professor in the School of Family and Nutritional Sciences, has completed a study which suggests that obese people tend to store animal fats more readily than non-obese people. The study, supported by the B.C. Medical Services Foundation, was done in conjunction with Dr. Laird Birmingham and Dr. Terry Phang of St. Paul's Hospital, but not before Jones had thoroughly investigated the differences in the way in which the body utilizes animal, or saturated, fat and plant, or poly unsaturated, fat.

His first study, done in 1985, revealed that people tend to retain animal fatty acids, which are the building blocks of fat, and burn off vegetable fatty acids.

"That discovery, which looked only at fatty acids, got the ball rolling," said Jones. "In 1988, we decided to factor entire meals into the equation."

Jones fed normal weight people diets that differed only in the type of fat they consumed: animal versus plant, or, for the purpose of this experiment, lard and tallow versus corn oil. What he discovered was that, after

a meal, people burned off plant fat more quickly than animal fat — which prompted him to take the entire experiment a step further.

"I wanted to determine whether overweight people have a different way of disposing of dietary fat," said Jones, "and whether this difference was perhaps due to a defect in the body's regulatory mechanism."

The answer was yes.

"I repeated the second stage of the experiment, but added a group of obese

"It's not how much these people eat, but what they eat."

individuals," said Jones. He discovered that although obese people burn off plant fat at the same rate as non-obese individuals, these overweight people didn't rid their bodies of animal fats as efficiently as non-obese people do.

"At this point, it's difficult to explain why there is a difference in obese and non-obese people when it comes to metabolizing animal fats," said Jones. "I hope to be able to come to grips with that in a further study."

At any rate, there certainly appears to be a case for obese people who claim they aren't big eaters.

"According to my results, it's not only

how much these people eat, but what they eat. And if they consume foods high in animal fats, the resulting calories will tend to hang around their bodies."

Jones said another study done has shown that fish oils appear to be burned off at an even higher rate than plant oils — another significant step in the study of obesity.

"There is still very little known about the causes of obesity," said Jones. "But the apparent metabolic problem that prompts saturated fats to be stored in the body sheds new and significant light on the subject."

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Giving is fun at United Way Oktoberfest



United Way

It promises to be the most mouth-watering deal in town.

Barbecued smokies, and all the trimmings, will be served up by the Plant Operations Department at its annual Oktoberfest, Oct. 4, from 11:30 a.m. to 2:30 p.m. at 2200 West Mall, in support of UBC's United Way campaign.

Live musical entertainment will be provided by the Plant Operations Tradesmen, members of the various trades in the department.

Cost of admission is a minimum donation to the campus United Way campaign.

A mid-campaign reception for volunteers on Oct. 10 will feature an early bird draw for UBC faculty and staff who have already made their contributions. Prizes include a trip for two to New Orleans, gift certificates, theatre tickets and books. The festivities begin at 3:30 p.m. in the ballroom of the Graduate Student Centre.

UBC is hoping to raise \$280,000 of the \$17.5-million goal set by the United Way of the Lower Mainland. The campus fundraiser continues through the month of October.

Clinical competition highlight of UBC Health Sciences Week

By **CONNIE FILLETTI**

Issues in health research and care, including the future directions of nursing, will be explored during UBC's fourth annual Health Sciences Week, Oct. 6 to 12.

One of the highlights of the week's events and activities is the Health Care Team Clinical Competition, designed to enhance students' knowledge about other health professions and their roles in the clinical arena.

"The original concept was to bring all the health care disciplines together and allow the students to interact," explained Dr. Ravindra Shah, a professor in the Faculty of Dentistry and chair of the competition committee.

"The competition has evolved to recognize that the objective of that interaction has to be for the ultimate benefit of the patient, to provide them with total health care," he added.

Shah believes that the competition was the most successful student event on campus last year, attended by a crowd of approximately 700.

Faculty attendance was also high for the first time in the history of the event.

Impressed by its educational value, the Faculty of Medicine has made attendance at this year's competition mandatory for first year medical students as part of their curriculum.

The feasibility of other health sciences faculties and schools incorporating the Health Care Team Clinical Competition into their first year programs is currently being explored.

"The health care needs of the population increasingly require a team approach and current approaches to prevention, and treatment of injury and disease must involve the combined expertise of many health care disciplines," said Dr. Paul Robertson, coordinator of Health Sciences.

"A team approach is essential to the needs of a patient including the complex health problems of older adults, severe and multiple traumatic injuries, and patients whose host defence system has been compromised," he added.

The Health Sciences at UBC include medicine, dentistry, nursing,

pharmaceutical sciences, occupational therapy, physiotherapy, social work, audiology and speech sciences, clinical psychology, counselling psychology, family and nutritional sciences and laboratory sciences.

Three teams of students will be selected from the senior year of each of the Health Sciences disciplines to compete in the clinical competition. The teams will be presented with a hypothetical patient and asked questions about the case. Their responses will be assessed by a panel of judges.

The Health Care Team Clinical Competition will be held before an audience Oct. 10 between 12:30 p.m. and 2:30 p.m. in IRC lecture theatre 2. The public is invited to attend.

Call Sue Calthrop at 822-3737 for more information.

Lecture series planned to mark Science and Technology Week

National Science and Technology Week, Oct. 18-27, will be marked at UBC with a series of lectures on the Networks of Centres of Excellence.

UBC is the headquarters for four of the 15 national centres of excellence and is associated with nine more. The lectures will look at how the centres of excellence were created and what fundamental questions they seek to answer.

Robert Miller, UBC vice-president of research, will speak Monday, Oct. 21, on B.C.'s contribution to the national centres of excellence program;

Michael Hayden, director of the Genetic Diseases Network, talks Tuesday, Oct. 22; Michael Smith, director of the Protein Engineering Network, speaks Wednesday, Oct. 23; Robert Hancock, director of the Bacterial Diseases Network, lectures on Thursday, Oct. 24; and Paul Leblond, director of the Animal Production Enhancement Network, speaks Friday, Oct. 25.

The lectures are offered by the UBC Centre for Continuing Education and will be held each night at 7:30 p.m. in lecture theatre 1, Woodward IRC. Registration is \$50. For more information, call 222-5238.

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For Sale

OCTOBER SALE: of available (meaning light weight) gifts at whisle. prices. B.C. designs; on silk ties, composer t's, kitchen linens, scarves and small pottery pieces. Jewellery by Edibaubles. **FESTIVE FABRICS,** 3210 Dunbar at 16th. 11-3 Tel. 736-1016

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NEW DAYCARE: UBC has a new daycare centre opening October 1, 1991. If you need quality licenced care for your child aged three to five please come to 5590 Osoyoos Cres. to apply or call 822-5343 for further information.

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Polish researcher gets helping hand at UBC

By GAVIN WILSON

Polish scientist Julitta Gajewska's research was hampered by a lack of facilities and equipment at the Agricultural University of Warsaw, where she teaches.

But thanks to a program based in UBC's Faculty of Agricultural Sciences, she is now working in the lab of UBC soil scientist Shannon Berch and has access to the anaerobic transfer hood, other equipment for work with anaerobic bacteria, and the electron microscopes she needs to advance her studies.

Gajewska said the opportunity for her to come to UBC is "the best situation.

"I can compare strains I isolate from soils here with these from Poland. For me, it is wonderful," she said.

Gajewska is here as part of an exchange program funded by the Dr. and Mrs. A. S. Dekaban Foundation. Dr. Dekaban was born in Poland and practiced medicine in both Canada and the United States before retiring.

The foundation was established in 1982 with the Faculty of Agricultural Sciences to help the exchange of ideas and new developments in agriculture between UBC academics and Polish agricultural universities.

Gajewska, who arrived in August and will be here until the end of December, is an agricultural microbiologist whose research involves developing anaerobic strains of bacteria that will quickly break down garbage into usable compost.

She is one of the two junior Polish

agriculture faculty members who come to UBC each year. A total of 16 Polish academics have arrived here since the program began in 1984.

The visiting academics have conducted research on soil science, horticulture, agricultural engineering, computer simulation modeling, food science and technology, the physiology and management of livestock, and problems related to environmental pollution.

Most of the scholars have been from the Agricultural University of

Warsaw, but others have come from agricultural universities in Poznan, Krakow, Lublin and Wroclaw.

With the dramatic political changes sweeping Eastern Europe, a new aspect of the Dekaban Foundation's work is helping the Polish agricultural sector shift from a centralized to a free market economy.

"People in Poland say they want to learn more about economics," said Victor Runeckles, chair of the Dekaban Foundation Committee and professor of Plant Science.

"They recognize they need to learn a great deal very quickly. They know virtually nothing of market economics. They recognize that it will be a hard grind to turn an entire economic structure around."

To help meet this challenge, the Dekaban Foundation sponsored UBC Agricultural Economics professors Tim Hazledine and Richard Barichello, who held workshops in two Polish centres last summer.

Attended by academics and offi-

cialists from the Ministry of Agriculture and Food Economy, the workshops examined agricultural economics, markets, distribution and small farm enterprise development.

"We obviously can't solve Poland's problems alone, but we feel we have something to offer them," said Runeckles.

Holding more workshops, however, may not be the best route, he added.

Getting things done in Poland proved to be very difficult. Language difficulties and periodic trouble with communications links (for awhile it was impossible to phone from one campus of the University of Warsaw to the other, across town) compounded the organizational problems.

"Although the workshops were unquestionably successful, we've had second thoughts about whether this is really the way to go. There are probably more cost-effective ways of contributing to Polish agricultural development, because we were only able to reach a relatively small group," said Runeckles.

One alternative approach the foundation is now looking into is producing textbooks based on the UBC Access course manual on introductory agricultural economics, translated into Polish.

The text "will not just be a translation," he said, but will also be put into the Polish context.

The foundation also funds journal subscriptions for libraries at five of Poland's agricultural schools. Faced with severe shortages of hard currencies, libraries find it extremely difficult to maintain journal collections.



Photo by Chris Petty

AMS President Jason Brett presents the 31st Great Trekker Award to Rosemary Brown at the annual dinner commemorating the Great Trek. The prominent activist and former politician graduated from UBC in the mid-1960s.

Space station research subject of international forum held at UBC

By GAVIN WILSON

Scientists from around the world gathered at UBC this week to discuss the proposed international space station.

The space station Freedom, a joint project of NASA and the space agen-

cies of Canada, Japan and Europe, will be assembled in earth orbit beginning in 1996.

The International Forum on the Scientific Utilization of the Space Station meets each year, bringing together scientific advisory commit-

tees from each of the four space station partners to recommend experiments most appropriate for the space station. This was Canada's year to host the forum.

"The symposium provided the B.C. research community an opportunity to learn about some specific areas of science being considered for investigation on the space station," said Dr. Donald Brooks, chair of the Canadian advisory committee and holder of a joint appointment in the departments of Chemistry and Pathology at UBC.

Brooks added that the Canadian Space Agency is expected to announce funding opportunities for space station experimentation within the next few years but that funds for preliminary research are available now.

Canada's contribution to the space station is a Mobile Servicing System, an advanced mobile robotic manipulator based on the Canadarm used on the space shuttles. This investment entitles Canada to a portion of space station resources, including crew and laboratory experiments.

During the forum, scientists from each of the four space agencies presented seminars on contemporary research projects relevant to experimentation on the space station. Some of the topics covered were materials and fluid sciences in reduced gravity, observing and sensing sciences, such as earth observation, and astronomy and life sciences in space.

Constitutional change to be discussed by faculty in public lecture series

A new constitutional package is on the table leaving Canadians with five months of public hearings.

What does it all mean?

Starting Oct. 17, UBC faculty will be offering their views on the government's current proposals for constitutional change in a series of five, free noon-hour lectures.

The President's Series on the Future of Canada will be held at UBC on consecutive Thursdays and downtown at the Robson Square Conference Centre on Fridays. Lecture times are 12:30 p.m. to 1:30 p.m. at the Faculty of Law's Curtis Building and noon to 1 p.m. at the Judge White Theatre in Robson Square. Both campus and downtown lectures will be followed by a question period.

Topics include:

- How did we get here? (Oct. 17, 18); Political Science Prof. Alan Cairns will discuss the current constitutional situation in the context of post-Meech Lake alienation of Quebec and the competing constitutional demands of interest groups.

- Renewed Federalism or Two Nations? (Oct. 24, 25); Robin Elliot, a professor in the

Faculty of Law, will examine the strengths and weaknesses of various solutions to the constitutional impasse.

- The Process of Constitutional Change (Oct. 31, Nov. 1); political scientist Avigail Eisenberg looks at the issue of political fairness as it relates to changing present and future constitutional arrangements.

- Public Opinion and Constitutional Change (Nov. 7, 8); Richard Johnston, also with UBC's Political Science Department, will talk about opinion polls and his own research on Canadians' constitutional preferences.

- Alternative Futures (Nov. 14, 15); Panelists discussing possible scenarios for Canada's future include: Kogila Adam-Moodley, director, UBC Multicultural Liaison Office; Associate Prof. Rejean Beaudoin, Department of French; Political Science Prof. Philip Resnick; and Veronica Strong-Boag, director of UBC's Centre for Women's Studies and Gender Relations.

For more information regarding the series, call Estella Overmyer at 222-5238.

The President's Series on the Future of Canada

Canada

KEEPING CANADA TOGETHER?

It is possible that Canada is on the verge of breaking-up. In this series of five free noon-hour lectures, UBC academics will explore Canada's current constitutional crisis and consider possible futures. The series will be chaired by Lynn Smith, Dean of Law.

■ **October 17**
How Did We Get Here?
ALAN CAIRNS, DPhil
Dept of Political Science

■ **October 24**
Renewed Federalism or Two Nations?
ROBIN ELLIOT, LL.M.
Faculty of Law

■ **October 31**
The Process of Constitutional Change
AVIGAIL EISENBERG, PhD
Dept of Political Science

■ **November 7**
Public Opinion and Constitutional Change
RICHARD JOHNSTON, PhD
Dept of Political Science

■ **November 14**
Alternative Futures
Panel:
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Dept of Social and Educational Studies; Director, Multicultural Liaison
REJEAN BEAUDOIN, PhD
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