

Reports



The University of British Columbia
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Volume 37, Number 1
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New pills example of potential

University research leads to big business

By CHARLES KER

For Al Fowler, turning UBC research ideas into dollars is a waiting game. But for the pills on his desk, he's prepared to be patient.

"They could be a hot item," said Fowler, manager of Intellectual Property at UBC's Industry Liaison Office. "We just won't know how hot for a couple of years."

Each pill contains N-Acetyl Glucosamine (NAG), a naturally produced aminosugar. NAG is currently being marketed as a dietary supplement with no specific claim as to its function. However, preliminary clinical trials have indicated that NAG may help control a number of bowel diseases and food allergies.

"If we can prove it works and get a patent, these pills could become a \$100-million company," said Fowler, noting that between five and 10 per cent of the world's population suffers from some form of bowel disease or food allergy.

Commercializing the products of UBC's publicly funded research is big business. UBC currently holds about 60 product licences with existing companies and is constantly negotiating for others.

The annual survey of UBC spin-off companies shows 87 firms have evolved from the uni-



Professor Albert Burton with NAG pill. The drug may have valuable new applications.

versity in the last two decades. These companies employ more than 4,600 people and generated sales in excess of \$824 million in 1989.

When the surveys started in 1985, there were just 34 UBC spin-off companies, generating \$88

million with 1,641 workers.

The Industry Liaison Office took over the licensing and patenting of research disclosures from the federal government in 1982. Since then, Fowler

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UBC researchers critical of report on patent rights

By CHARLES KER

The UBC research community has criticized a report which recommends that B.C. universities transfer all their research inventions to a private company.

"This scheme will ensure that UBC invention disclosures will essentially dry up because the incentive for researchers to participate will be gone," said Jim Murray, director of UBC's Industry Liaison Office. "It's a very ill-conceived idea."

Murray was one of about 75 people who attended a public forum last month dealing with recommendations outlined in a B.C. Science Council committee report.

In its report, the council's SPARK Fiscal Committee recommended that B.C. universities and research institutions give up licensing and patent rights in return for shares in a newly

See NEGATIVE on Page 2

New strategic plan to carry library into the 21st century

By ABE HEFTER

"The UBC library is the focal point of the university, essential to the work of every faculty on campus at all levels of teaching and research." — David Strangway, President's Report on the Library, 1987.

The library will take President Strangway's words into the next century in a vision statement titled: The UBC Library at the Beginning of the 21st Century.

"The UBC library will be a gateway to the world's increasingly vast and complex store of information," said University Librarian Ruth Patrick, the chair of the library's strategic planning coordination team which is crafting the

library's blueprint for the future.

"The electronic catalogue will be the basis of campus-wide access to the library's entire collection," said Patrick. "The library will provide access to information beyond UBC's resources by mounting more external databases locally and providing gateways to remote databases and information networks."

Patrick said more and more materials are being published in an increasing array of different formats, most of them electronic. Preservation of the collection in all its formats, ranging from print to computer software, will be a high priority for the library.

And despite earlier predictions to the contrary, publishing on paper is

increasing rather than declining.

"The book is still an economical way to provide information," said Patrick. "The library will continue to acquire and safely house materials which support UBC's teaching, research and service activities and make these materials accessible."

Patrick said a knowledgeable and skilled staff will anticipate the needs of users, as well as plan and interpret services and advise users on accessing both local and remote information services.

"The library will also continue to be a cultural centre and encourage the best possible use of its resources. It will serve as the strong central core on

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Inside

TUITION GUIDELINES: The background on the tuition fee guidelines are discussed in an interview with UBC President Strangway. Page 2

AROUND & ABOUT: A new regular feature article debuts this issue in UBC Reports. Page 6

TELEPHONE EXCHANGE: Watch for the new UBC telephone exchange on March 4, 1991. Page 8

University to receive provincial funding for computer facility

The provincial government has given the university \$900,000 to plan a new building for the Integrated Computer Systems Research (CICSR) and the Computer Science Department.

The \$15-million facility will be located on the northeast corner of Main Mall and Agronomy Road. The four-

level, 9,135-square-metre building will contain research and laboratory space.

Funds for planning the new building are part of a \$218-million commitment by the Ministry of Advanced Education, Training and Technology for capital works projects at the province's universities, colleges, institutes and agencies.



Photo by Media Services

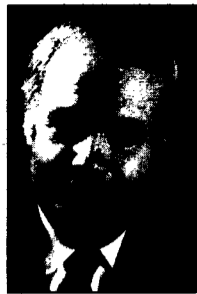
Provincial Forests Minister Claude Richmond spent a busy morning at UBC with the faculties of Forestry, Science and Applied Science on Dec. 14. Richmond heard presentations from researchers in the areas of biotechnology, including forest genetics, harvesting and wood sciences. Here, the minister (second from left) meets with (from left to right) Forestry Professor Peter Murtha, Professor David Haley, the head of Forest Resources Management, and Dean of Forestry Clark Binkley during a display of the Geographic Information Systems.

TUITION: A CONVERSATION WITH THE PRESIDENT

UBC President David Strangway has presented tuition fee and financial aid guidelines to the university's Board of Governors that set fee increases for a three-year period and bolster financial aid for students.

The guidelines propose that tuition increases in 1991-92, 1992-93 and 1993-94 be set at the annual Vancouver inflation rate, plus 4.5 per cent. The guidelines designate a portion of the proposed increase for enhanced student aid and another portion for an enhanced teaching and learning environment.

The full text of the proposed guidelines was published in UBC Reports on Dec. 13, 1990. Strangway is seeking input from students, faculty and staff on the proposed guidelines, which will be voted on by UBC's Board of Governors at its February 7 meeting.



Strangway

Q: Why are you proposing, for the first time, a three-year schedule of tuition fee increases?

A: By phasing in these changes, we'll ensure that tuition fees and financial aid will be reasonably predictable. There are real benefits to this type of planning because it allows us to enhance our student aid package. We've got to start building up a base for that, so the three year period will allow us to make a significant dent in reaching our objective of reducing financial barriers.

Q: How much money are you proposing for student financial aid?

A: At the present time, we get about \$45 million from student tuition. If you take one per cent of that, then \$450,000 would go into the aid package in the first year. By year two, it would be up to \$900,000 and by year three, with an additional 1.5 per cent, another \$675,000 would be added to the ongoing total. That's over \$1.5 million in annual operating funds that would be available for student aid by the end of the third year.

Q: What about other types of aid?

A: We are also going to expand work opportunities on campus and ensure they are available, as much as possible, to the more needy of our students. The basic objective is that by the time that we do all of this, we want no student — who is qualified and meets our admission standards — to be able to say that he or she could not go to UBC because of financial limitations. That's really what underlies the student aid part of the package.

Q: You're proposing a 4.5 per cent increase on top of the inflation rate. Why do you have to raise fees above inflation?

A: There are really four reasons. First, we have an age bulge in the faculty, with few retiring over the next few years. Because so few will retire, few funds will be released to provide merit increases. We have to find a source of income for merit increases, which are used at universities in place of promotional increases.

A second reason is that some of our non-academic staff are at salary levels which are below the marketplace. We want to ensure that we are competitive and attracting and keeping the very best staff at the university.

A third reason has to do with what I call regulatory issues. For example, although we're supposed to be protected from the GST, we're going to have to create an office to handle and manage the GST because we're going

to have to pay it and collect it back.

The fourth reason is that the goods and services used at the university, such as library books, computers and legal fees, rise at rates that are above inflation.

Q: How did you reach the figure of 4.5 per cent?

A: Well, it's a very difficult number to come up with. We looked at the three objectives that we had with respect to the "above inflation" component. The first two per cent was the amount that we needed in order to be sure that we didn't have to make any budget cuts. The remaining number was the amount we determined we needed to build a significant student aid fund and a teaching and learning environment fund.

Ultimately, we want to ensure that an appropriate teaching environment is here for students and that we provide them with faculty and staff who are competitively-paid and for whom this is a first-rate working environment.

Q: What do you mean when you talk about enhancing the teaching and learning environment?

A: In some cases this could mean more computing equipment for some of our labs or materials for some Arts programs, or language labs, library materials or additional teaching assistants. It may vary from faculty to faculty, but it would all be towards specifically improving the teaching environment itself.

Q: Why not try to get more money from the provincial government?

A: The provincial government has been doing a lot for post-secondary education in B.C. Apart from the fact that it provides 85 per cent of our operating budget, it has also provided a student aid package which is now the best in Canada. By providing access for 15,000 additional students, and not just in Vancouver, the government has reduced barriers for many. There are more than half a million people who now have access to the university system who didn't before because they can now go to Kelowna or Kamloops or Nanaimo or Prince George.

The government has provided new money for equipment and for maintenance of buildings, and has provided matching funds for our fundraising campaign. It has recently increased grants at above inflation rates and has provided capital funds for badly needed new buildings. So, the government has, in fact, been doing a lot to increase and enhance the situation at UBC and universities in general.

Q: How will UBC guarantee that students have better access to financial aid?

A: It's our intention to keep the bureaucracy to a minimum and we intend, especially, that the emergency loan part of the package will have a very flexible, responsive process in place.

Q: The economy is somewhat volatile. If the recession continues and inflation rises significantly, so will tuition in years to come.

A: I understand the concern, but we cannot allow ourselves to get into the same situation as we did during the last recession, one we have spent several years recovering from.

It isn't just students' costs that come under pressure, it's the costs of operating the institution that come under financial pressure. So, the question is do you want to maintain the level and the quality of what you've got? The answer is yes, we want to preserve what we've worked so hard to build.

Negative impact on research feared

Continued from Page 1

formed company to be called University Enterprises of B.C. (UEBC). The report said existing liaison offices in universities would continue to operate as they do now, but they would be subject to the UEBC right of first refusal on inventions.

Murray said such an arrangement would only produce negative results and jeopardize current UBC contract agreements worth about \$15 million this year.

"We've got to the point now where the research community here feels comfortable in coming to us for help with their disclosures," said Murray. "A new company would take close to 10 years to get where we are now and by that time we would have lost any advantage we might have gained."

Murray warned that faculty members would publish their research rather than disclose it to the UEBC. He added that published material cannot be patented.

However, the committee report said technology transfer must be more coordinated and aggressive in fostering links with local B.C. companies.

The report proposes that the provincial government contribute \$2 million a year to UEBC for a period of up to five years. UEBC would also be directed to raise funds from private investors.

The report highlighted the need for more funding of technology and knowledge-based businesses in B.C. and better management to oversee new projects.

Murray said research disclosures to the UBC Industry Liaison Office have increased from a handful each year, in the early 1980s, to almost 100 this year.

For every dollar of royalties UBC receives from licensed companies, half goes to the inventor, one-sixth goes to the inventor's faculty or department and the university keeps the remainder.

UBC generated more than 60 per cent of B.C.'s total public and private research in the 1989-90 academic year and allocated \$100 million for research.

The SPARK Fiscal Committee will release its final report at the end of January.

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UBC Media Services Photography 228-4775

Drug may contribute \$750,000 in royalties

Continued from Page 1

has watched royalties from spin-off companies grow from \$5,000 a year to close to \$750,000 in 1990. Hopes are that proceeds from NAG will eventually double that figure.

NAG was licensed to a local company in 1987 but it took two more years before it was on the market as a dietary supplement. If clinical trials for NAG's effectiveness are successful, the federal government may issue a drug identification (DIN) number and the pill could then be sold as a prescription drug.

Albert Burton, a UBC biochemistry professor, discovered NAG's po-

tential six years ago when he found that people with inflammatory bowel disease formed insufficient amounts of the aminosugar in their system. Since the body wasn't producing enough of the aminosugar on its own, Burton thought that providing an outside source might help stimulate and restore the supporting tissue structures made from NAG.

"Providing a supplement of NAG when there is a deficiency is a simple way of improving the situation," said Burton. "It doesn't cure a disease, but rather improves the symptoms."

Burton added that supplements of

ready made NAG may also prove beneficial to people who are longterm users of anti-inflammatory steroids. These corticosteroids impair the formation of aminosugars which weaken joints and skin tissue of users. The steroids are used to suppress inflammation caused by conditions such as arthritis.

Burton also said that about half the number of newborn infants, born prematurely, suffer from similar problems. Weakness in the support structures around their blood vessels makes the vessels rupture easily. This, in turn, causes brain hemorrhaging, a major

cause of birth defects.

Fowler began exploring NAG's commercial potential four years ago and expects it will take another five years before the product gets patented and the university starts seeing returns on its investment.

The most successful UBC research idea to date has been the X-400 and X-500 universal electronic mailing systems which allow information to be passed between unlike computers. License agreements from the systems will constitute almost half of the university's research royalties this year.

"This job takes time and patience because the road is full of potholes," said Fowler, who added that fostering smaller inventions is necessary to increase royalties until the big ideas blossom.

Some of the spin-off companies which owe their origin to expertise or research from UBC include the well-known B.C. technology based companies Columbia Computing Services, MacDonald Dettwiler, MDI Mobile Data International, Nexus Engineering Corp., Moli Energy and Quadra Logic Technologies.

75 Years celebrated in one great year

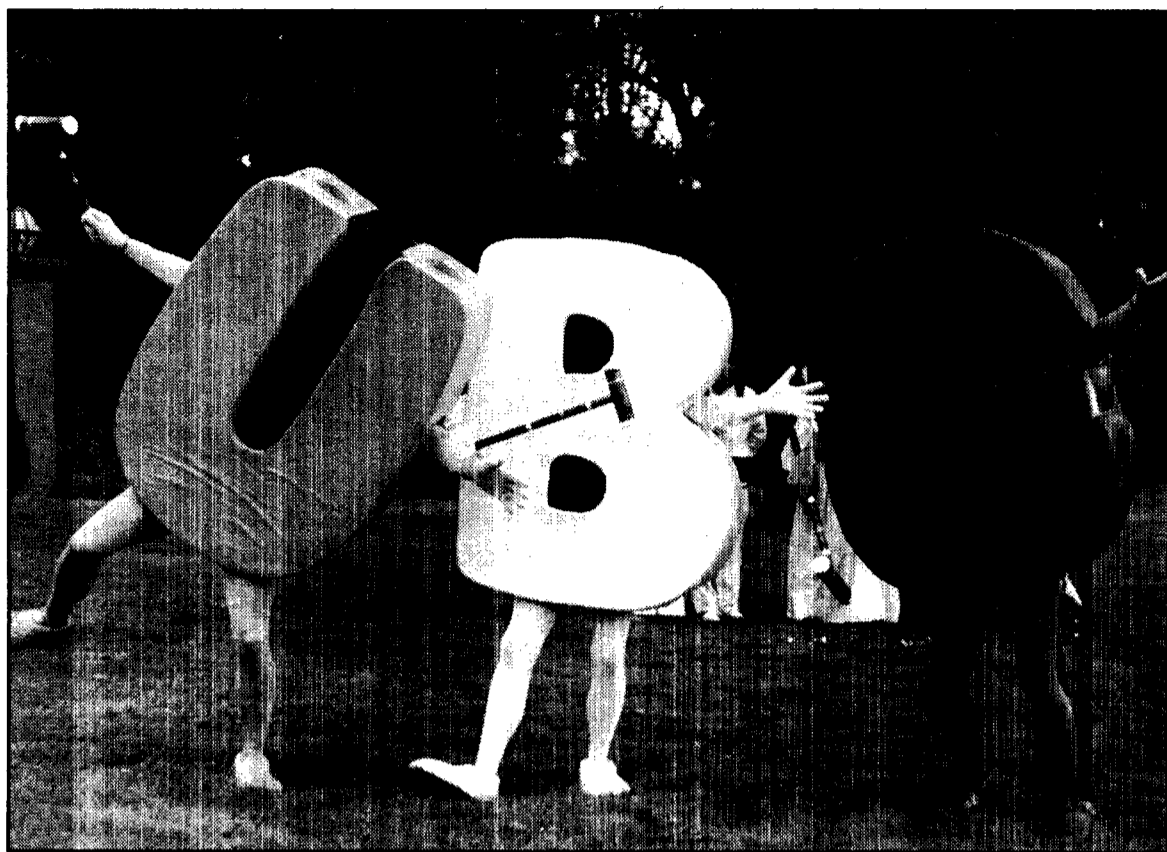


Photo by Media Services

A familiar sight throughout the anniversary, the UBC Letter People were official campus mascots for the year.



Photo by Media Services

Future UBC student (?) enjoys the festivities at summer S.U.P.E.R. Sale.

What a celebration it was!

By GAVIN WILSON

1990 was a year like no other at UBC.

It was a time to reflect on 75 years of accomplishment, celebrate a diamond anniversary and look confidently ahead to the future.

And what a celebration!

Never before had so many people from off campus visited the university, attracted by plays, concerts, lectures, sports events, class reunions and more. Open House alone drew an estimated 200,000 visitors.

Old friends dropped by to sample the traditional delights of Homecoming while first-time visitors were lured to campus by exciting new events, such as Discover Summer at UBC.

"Our 75th anniversary celebrations were an enormous success, both in terms of alerting the public to the first-rate research, teaching and attractions at UBC, and in making members of the campus community aware of how much they have to be proud of," said President David Strangway.

75th anniversary leaves legacy

More than just a passing celebration, the 75th anniversary also left a lasting legacy.

Part of this legacy is easy to see. For example, from the viewpoint by the flag pole at the north end of main mall, a metal plaque now shows visitors the names of Coast Range mountains ringing Howe Sound. The site offers the best accessible view of the mountains on campus and, located just above the rose garden, is a favorite stop for tourists.

Another of the permanent legacies is the rejuvenation of Fairview Grove, the small park on Main Mall

that pays tribute to UBC's second president, Leonard Klinck. As Dean of Agriculture, Klinck set up a tent on the site in the summer of 1915, becoming the first occupant of the Point Grey campus. In March, dignitaries planted 75 trees in the grove in honor of the anniversary and to kick off Open House.

There are other legacies of 75th as well, less tangible, but just as real.

A new benchmark has been set for future Open Houses (the next one is scheduled for 1993) as hundreds of faculty, staff, students and community volunteers worked together last March to make the event a resounding suc-

cess.

More than 400 events showcased UBC research and activities during the three-day extravaganza, not only giving the public a rare glimpse of university life, but providing an opportunity for many on campus to see what their neighbors do.

Summer discovered at UBC campus

And 1990 was also the year that we set out to Discover Summer at UBC. A festival of sports, fine and performing arts and other activi-

ties, Discover Summer succeeded in luring more visitors to campus during the summer months than ever before. Visitors saw exhibitions of paintings and photographs, scores of concerts (including music by the newly formed UBC Summer Strings), summer stock theatre and much more.

The Pacific Coast Music Festival brought more than 3,500 of B.C.'s top high school musicians to campus for a two-day event. Organizers were so impressed with UBC they are considering it as a permanent site.

Sports and recreation events such as the Arts 20 Relay continued to build and strengthen town-gown ties. The summer tour pro-

gram also grew. Guides led about 800 tour groups around campus.

The S.U.P.E.R. (Special University Project to Encourage Recycling) Sale drew about 5,000 people under brilliant July skies, raising \$39,000 for campus departments. Buoyed by the success of the sale, organizers are looking at holding it again.

The 75th anniversary also helped to strengthen old traditions. According to Deborah Apps, executive director of the Alumni Association and chair of the Homecoming Week committee, it provided the opportunity to develop a first-class Homecoming celebration.

Pierre Berton was presented with the Great Trekker award at a gala banquet at the Hotel Vancouver as hundreds of alumni returned to campus for the many class reunions.

Original trekkers honored

All were warmly greeted, but the biggest welcome was reserved for the original Great Trekkers. Members of the graduating classes of 1916-27, including 27 men and women who actually took part in the Great Trek of 1922, attended a special reception and re-traced the route of their famous march.

Several other campus projects also brightened up our 75th year. There were special symposia and lectures, special issues of journals such as B.C. Asian Review and Canadian Literature and a number of books published to mark the anniversary, including a history of women at UBC, a history of the Forestry Faculty and an anthology of the works of graduates and instructors of the Creative Writing department.



Photo by Media Services

Several of the original participants of the Great Trek of 1922 gathered to commemorate the famous event.

January 13 –
January 26

MONDAY, JAN. 14

Piano Masterclass



Richard Goode. Adult fee, \$10 at the door. Music Recital Hall at 7:30pm. Call 228-3113.

Pediatrics Research Seminar

90/91 Series. More Clinical Trials-Rotodrine-The Human Story. Dr. Ruth Miller, Research Support Unit. University Hospital, Shaughnessy Site D308 at 12pm. Call Gail or Dr. Skala at 875-2492.

Mechanical Engineering Seminar

Experimental Investigation of Bifurcation In Twisted Square Plates. Robert Howell. Fluid Flow Out Of A Slot Using Inviscid Theory. Bruce Ainslie. Both speakers, M.A.Sc. students, Mechanical Engineering, UBC. CEME 1202 from 3:30-4:30pm. Call 228-6200.

TUESDAY, JAN. 15

Lectures In Modern Chemistry



Bio-Mega Lecture. Ribonucleotide Reductases: Amazing And Still Confusing. Dr. JoAnne Stubbe, Chemistry, Massachusetts Institute of Technology, Cambridge, MA. Chemistry B250 at 1pm. Refreshments from 12:40pm. Call 228-3266.

Statistics Seminar



Joint presentation with the Faculty of Commerce/Bus. Admin. Some Methods For Obtaining Asymptotic Results For U-Statistics. Prof. Neville Weber, Mathematical Statistics, U. of Sydney. Ponderosa Annex C-102 at 4pm. Refreshments at 3:45pm. Call 228-2234.

WEDNESDAY, JAN. 16

Forestry Seminar

Alpine Tundra And Forest Vegetation In Changhai Mt. Dr. H. Qian, Forest Sciences, UBC. MacMillan 166 from 12:30-1:30pm. Free admission. Call 228-2507.

Microbiology Seminar Series



Glycogen De-Branching Enzyme. Dr. Steve Withers, Chemistry, UBC. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Resource Ecology Seminar

Nutrient Budgets And Fire Effects In Heathland Watersheds In Spain. Cristina Bellas, Forest Sciences, UBC. BioSciences 2449 at 4:30pm. Call 228-4329.

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CALENDAR DEADLINES

For events in the period Jan. 27 to Feb. 9, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Wednesday, Jan. 16 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3131. The next edition of UBC Reports will be published Jan. 24. Notices exceeding 35 words may be edited.

Geophysics Seminar

Data Reduction And Seismic Interpretation. Yehoshua Keshet, Geology, Duke U. Durham, NC. Geophysics/Astronomy 260 at 4pm. Call 228-3100/2267.

Geography Colloquium

Landslides As Indicators Of Neotectonic Activity In The Canadian Cordillera. Dr. Wayne Savigny, Geology, UBC. Geography 201 at 3:30pm. Call 228-3268.

Institute of Asian Research Brown Bag Seminar

Southeast Asian Migration To Australia. Dr. Christine Inglis, Centre of Studies in Demography/Ecology, U. of Washington. Asian Centre 604 at 12:30pm. Call 228-4688.

Wednesday Noon-Hour Series

Lafayette String Quartet with Robert Silverman, piano. Admission \$2 at the door. Music Recital Hall at 12:30pm. Call 228-3113.

Applied Mathematics Seminar

Effects Of Topography And Coastal Geometry Rotationally Dominated Flow. Dr. Susan Allen, Oceanography, UBC. Mathematics 229 at 3:45pm. Call 228-4584.

THURSDAY, JAN. 17

Pharmacology Seminar

The Uses And Abuses Of Angel-Dust (Phencyclidine). Dr. John Church, Physiology, UBC. IRC #1 from 11:30-12:30pm. Call 228-2575.

Microbiology Seminar

Regulation Of Interferon Gene Expression: Implications For Therapy. Dr. Paula M. Piha-Rowe, Oncology Center, Johns Hopkins, Baltimore, MD. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Physics Colloquium

Inflation. Bill Unruh, Physics, UBC. Hennings 201 at 4pm. Call 228-3853.

FRIDAY, JAN. 18

Obstetrics/Gynecology Grand Rounds

Idiopathic Thrombocytopenia Purpura In Pregnancy. Dr. P. Ballem. University Hospital Shaughnessy Site Lecture Theatre D308 at 8am. Call 875-2171.

Pediatrics Resident Case Management

Management Of Urinary Tract Infection. Dr. Margaret Colbourn, Presenter; Dr. Saug Al Soleiss, Discussion. G.F. Strong Rehab. Centre Auditorium at 9am. Call A.C. Ferguson at 875-2118.

German Lecture

President's Lecture. Discipline And Bondage: Future Of Language/Literature Curriculum. Professor Mark Webber, Language, Literature/Linguistics, York U., Buchanan Penthouse at 12:30pm. Call 228-5119.

Fisheries/Aquatic Science Seminar

Effect Of Smolt Size On Smolt-To-Adult Survival Of Chitko Lake Sockeye Salmon And Other Interesting Aspects Of The Biology Of Fraser Sockeye. Mike Henderson, Fisheries/Oceans, Vancouver. Bio Sciences 2361. Call 228-4329.

Economics Departmental Seminar

Topic to be announced. John Rust (Wisconsin). Host: Professor Ken Hendricks. Brock Hall 351 from 4-5:30pm. Call 228-2876.

SATURDAY, JAN. 19

William G. Black Memorial Prize

Essay Competition. To the amount of approx. \$1600. Open to students of any discipline, enrolled in undergrad or professional programs. (Students with graduate degrees excluded.) Topic to be related to Canadian citizenship; duration of the competition, two hours. Please bring your student card for identification. Angus 104 from 10am-12pm. Call Awards/Financial Aid at 228-5111.

MONDAY, JAN. 21

Applied Mathematics Seminar

Strong Localized Perturbations Of Linear And Nonlinear Eigenvalue Problems. Dr. Michael Ward, Mathematics, Stanford U., Stanford, CA. Call 228-4584.

Astronomy Seminar

Hydrodynamic Mixing Of Stellar Interiors And The Solar Neutrino Problem. Dr. Bill Merryfield, Geophysics/Astronomy and Chemistry, UBC. Geophysics/Astronomy 260 at 4pm. Coffee Available from 3:30pm. Call H. Richer at 228-4134.

Health Policy Research Unit Seminar

Technology Assessment In Hospital Decision Making. Dr. Stan Reiser, U. of Texas. University Hospital, UBC Site, G39, Purdy Pavilion at 12pm. Call 228-4969.

Mechanical Engineering Seminar

Dynamics Of Orbiting Interconnected Flexible Bodies: A General Formulation. Alfred Ng. A Multigrid Technique For Film Cooling Calculations. Jimmy Zhou. Both speakers, Ph.D. candidates, Mechanical Engineering, UBC. CEME 1202 from 3:30-4:30pm. Call 228-6200.

In The Spotlight

Outstanding Students in Concert. Free admission. Music Recital Hall at 12:30pm. Call 228-3113.

TUESDAY, JAN. 22

Lectures In Modern Chemistry

Recent Developments In The Catalytic Synthesis Of Chlorofluorocarbon Alternatives. Dr. Leo Manzer, Central Research/Development, E.I. du Pont de Nemours & Co., Wilmington, Delaware. Chemistry B250 at 1pm. Refreshments from 12:40pm. Call 228-3266.

WEDNESDAY, JAN. 23

Microbiology Seminar Series

Analysis Of The Surface Carbohydrate Of Caulobacter. Dr. Jack Sadtler, Forest Sciences, UBC. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Resource Ecology Seminar

Heritability Of Shell Form In An Intertidal Snail Population: Evidence For Response To Observed Spatial And Temporal Changes In Selection Pressure. Elizabeth Boulding, SFU. BioSciences 2449 at 4:30pm. Call 229-4329.

Geography Colloquium

Sic Transit Gloria: Usurpation Of Local Responsibility By The Vancouver-Richmond Transit Committee. Dr. Ken Denike, Geog., UBC. Geography 201 at 3:30pm. Call 228-3268.

Forestry Seminar

European Silviculture Systems. Professor Gordon Weetman, Forest Sciences, UBC. MacMillan 166 from 12:30-1:30pm. Call 228-2507.

Wednesday Noon-Hour Series

Fraser MacPherson, saxophone and Oliver Gannon, guitar. Admission, \$2 at the door. Music Recital Hall at 12:30pm. Call 228-3113.

Panel Discussion

The Barber Of Seville From Beaumarchais To Rossini. A Panel Discussion On The Forthcoming Vancouver Opera Production With John Hulcoop (English), Anne Scott (French), and Alison Green (Vancouver Opera). Dorothy Somerset Studio at 12:30pm. Call 228-4060/5122.

THURSDAY, JAN. 24

Physics Colloquium

The Eight Metre Project. Gordon Walker, Geophysics/Astronomy, UBC. Hennings 201 at 4pm. Call 228-3853.

Microbiology Seminar

Regulation And Expression Of The Lux Genes From Bioluminescent Bacteria. Dr. E.A. Meighen, Biochemistry, McGill U. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Pharmacology Seminar

Adverse Drug Reactions: A Clinical Perspective. Dr. James Wright, Medicine/Pharmacology/Therapeutics, UBC. IRC #1 from 11:30am-12:30pm. Call 228-2575.

Distinguished Artists Series

James Campbell, clarinet; Eric Wilson, violoncello; Jane Coop, piano. Admission: adults, \$12, students and seniors, \$7. Music Recital Hall at 8pm. Prelude lecture, 7:15pm. Call 228-3113.

FRIDAY, JAN. 25

Pediatrics Grand Rounds

Haematology/Oncology. Thalassaemia: Genetics, Diagnosis And Treatment. Dr. Paul Rogers, UBC. Additional speakers: Dr. Ka Wah Chan, Oncology/Haematology; Dr. Bonnie Massing, Haematopathology. G.F. Strong Rehab. Centre Auditorium at 9am. Call 875-2118.

Weekly Grand Rounds

Obstetrics/Gynecology. Childbed Fever - A Historical Review. Dr. G. Korn. University Hospital, Shaughnessy Site Lecture Theatre D308 at 8am. Call 875-2171.

Fisheries/Aquatic Science Seminar

A New Approach To Recruitment Determination: A Departure From Traditional Thinking. Chris Taggart, Dalhousie U. BioSciences 2361 at 3:30pm. Call 228-4329.

UBC Symphonic Wind Ensemble

Martin Berinbaum, director. Free admission. Old Auditorium at 12:30pm. Call 228-3113.

SATURDAY, JAN. 26

Vancouver Institute Lecture

The Fate of Canada. The Honourable Philippe Deane Gigantes, The Senate of Canada. Woodward IRC #2 at 8:15pm. Call Susan Dudley at 732-2318.

NOTICES

Carpool Matching

Send both your home and work addresses and both telephone numbers; your working hours; whether you have a car and if you smoke while driving, to Karen Pope, Dean's Office, Applied Science. When a carpool match is found, the information will be sent to you. Call 228-0870.

UBC Speakers Bureau

Would your group like to know more about topics ranging from Designing Effective Computer Graphics to Motivation In Sport? More than 500 topics to choose from; most speakers are available free of charge. Call 228-6167, Mon., Tue., Fri., 8:30am-12pm.

Institute of Asian Research Art Exhibit

Tiananmen Square, China. Co-ordinated by Mr. Dongqing Wei. Free admission. Jan. 12-26, Asian Centre Auditorium (509), from 11am-4pm daily. Call 228-2746.

Museum of Anthropology

Exhibitions extended: Portraits of BC Native leaders, chiefs, chief counsellors and elders by Kwaguitl photographer David Neel and Ghosts In The Machine, sculptures created by Snake In The Grass Moving Theatre. Now open in the new West Wing: The Koerner Ceramics Gallery. Closed Monday. Call 228-5087.

Executive Programmes

Two day business seminar, Jan. 21-22: Effective Grievance Handling, \$695. E.D. MacPhee Executive Conference Centre. Call 224-8400.

January 13 –
January 26

Sports Medicine Study



Volunteers, female, age 18-35 needed to participate in study on Exercise and the Menstrual Cycle. Fit, healthy, having normal menstrual cycles and not currently on oral contraceptives. Physiological testing provided. Allan McGavin Sports Med. Centre, John Owen Pavilion, UBC. Call Dr. Connie Lebrun 228-4045 or 980-6355.

School of Nursing Study

Volunteers needed for study of couples/family adjustment to a breast cancer diagnosis. Women and partners. Involves interviews/response to questionnaire. Call Dr. Ann Hilton at 228-7498.

School of Nursing Study

Couples are needed who are both in paid employment (over 20 hrs/wk.) and have at least one child under eighteen months of age. Involves filling out a questionnaire twice (10 minutes each time). Call Wendy Hall at 228-7447.

Psychiatry Depression Study



Participants needed for research study using new antidepressant medication. Depression sufferers, 18-65 years. Call Doug Keller at 228-7318.

Psychiatry Personality Questionnaire Study

Volunteers needed to complete two 90-minute sessions. Stipend, \$20. Call Janice at 228-7895/7057.

School of Family/Nutritional Sciences Study

Energy Metabolism. Female volunteers needed, age 27-38 with no history of dieting. Must be able to attend UBC clinic monthly for a short follow-up visit, for 1 year. Call Sara Pare at 228-2502.

Counselling Psychology Retirement Preparation

Volunteers interested in planning their retirement needed for research project. Discussion on related issues included. Call Sara Cornish at 228-5345.

Diabetic Clinical Study

Diabetics who have painful neuropathy affecting the legs needed to volunteer for 14-week trial of an investigational new drug. Call Dr. Donald Studney, Medicine, University Hospital, UBC Site at 228-7142.

Daily Rhythms Study

Volunteers needed to keep a daily journal (average 5 min. daily) for 4 months, noting patterns in physical/social experiences. Call Jessica McFarlane at 228-5121.

Psychiatry PMS Study

University Hospital, Shaughnessy site. Volunteers needed for a study of an investigational medication to treat Pre Menstrual Syndrome. Call Dr. D. Carter at 228-7318.

Sleep Disorders Study

Volunteers 18-45 years suffering from Chronic Insomnia needed for a study on sleep-promoting medication (hypnotics). Must be available to sleep overnight at a lab for five nights. Call Carmen Ramirez at 228-7927.

Hypertension in Pregnancy Study

Pregnant women, concerned about their blood pressure, are invited to participate. The study compares relaxation training with standard medical treatment (own physician). Call Dr. Wolfgang Linden at 228-4156.

Post Polio Study

Persons with polio needed for functional assessment and possible training programs. Call Elizabeth Dean, Ph.D., School of Rehabilitation Medicine, 228-7392.

Multiple Sclerosis Study

Persons with mild to moderately severe MS needed for study on exercise responses. Call Elizabeth Dean, Ph.D., School of Rehab. Medicine, 228-7392.

Statistical Consulting and 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 210. Ponderosa Annex C-210. Call 228-4037.

Surplus Equipment Recycling Facility

All surplus items. Every Wednesday, 12-3pm. Task Force Bldg., 2352 Health Sciences Mall. Call 228-2813.

Sexual Harassment Office

Two advisors are available to discuss questions and concerns on the subject. They are prepared to help any member of the UBC community who is being sexually harassed to find a satisfactory resolution. Call Margaretha Hoek or Jon Shapiro at 228-6353.

Volunteering

To find an interesting and challenging volunteer job, get in touch with Volunteer Connections, Student Counselling and Resources Centre, Brock 200. Call 228-3811.

Narcotics Anonymous Meetings

Every Tuesday (including holidays) from 12:30-2pm, University Hospital, UBC Site, Room 311 (through Lab Medicine from Main Entrance). Call 873-1018 (24-hour Help Line).

Badminton Club For Faculty/Staff

Thursdays from 8:30-10:30pm and Fridays from 6:30-8:30pm in Gym A of the Robert Osborne Centre. Club dues, \$15 plus library card. Call Bernard 228-6809 or 731-9966.

Duplicate Bridge

Informal game. All welcome. Admission \$2 per person (includes coffee/snacks). Faculty Club every Wednesday at 7pm. Call 228-4865.

Fitness Appraisal

Physical Education and Recreation through the John M. Buchanan Fitness and Research Centre, administers a physical fitness assessment program. Students \$25, others \$30. Call 228-4356.

Neville Scarfe Children's Garden

Located west of the Education Building. Free admission. Open year round. Families interested in planting, weeding or watering the garden, call Gary Pennington at 228-6386 or Jo-Anne Naslund at 434-1081.

Botanical Garden

Open every day from 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Nitobe Garden

Open Monday to Friday, 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Sharing key factor in child behavior

By ABE HEFTER

Teaching pre-school children how to share can be about as much fun as pulling teeth. However, a study conducted by the Psychology Department at UBC has revealed that, with a minimum of effort, parents can lay the groundwork for social skills by teaching siblings how to share.

Other studies have shown that some children who fail to grasp social skills by a Kindergarten age can exhibit problem behavior, like delinquency, later in life, said Georgia Tiedemann, a former graduate student in clinical psychology.

"Sharing is a key indicator," said Tiedemann, who headed the study with UBC psychology Professor Charlotte Johnston.

Over 50 families participated in UBC's Sharing Project. Each family had two children between the ages of two and six years. The sharing skills of these children, particularly with their siblings, was the focus of the study, said Tiedemann.

"The families completed questionnaires and allowed their children to be videotaped in a laboratory playroom for a total of three sessions, at one-hour per session. In addition, over 100 other volunteers — including elementary school, pre-school and daycare staff — provided information about children's social behavior outside the home."

Tiedemann said the study revealed that it is important for parents to ap-

proach sharing in a positive manner, and not by simply breaking up a fight between two siblings vying for the same object.



"It's important for parents to take notice of the efforts made by their children to share and to reinforce that behavior" - Georgia Tiedemann.

"Kids have a hard time learning the concept of fairness, which means getting what they need, rather than getting what someone else gets," said Tiedemann. "Children believe they deserve to get what they want. It's important for parents to act as role models, to take notice of the efforts made by their children to share and to reinforce that behavior with parental attention."

The study determined that when one child was willing to share with his/her sibling, it was highly likely that the

other one would behave in a similar manner. Moreover, when the mother was involved in sharing and play with her children, the children were also



"It's important for parents to take notice of the efforts made by their children to share and to reinforce that behavior" - Georgia Tiedemann.

more likely to share well together.

"We explored this further by asking mothers to create two different situations for their children," said Tiedemann.

"For 10 minutes in the playroom, mothers were busy with paperwork and asked to use their usual strategies to keep the children from bothering her. For another 10 minutes, mothers were free to interact with the children as they chose, and had no particular task. As any mother who has tried to talk on the phone with her children present

would predict, children became more active and hostile towards their mother when she was busy than when she was free. The children also shared less and were more likely to play separately. When their mother was free to interact with them, the children substantially increased their sharing play with each other."

Tiedemann said it's possible that children not only prefer the greater attention from their mother when she's free, but actively dislike the times when she is busy.

Another focus of the study was a five-session parent education program in which most families participated. The program focused on creating situations where it was easier for children to get along. It also focused on positive aspects of sharing-skill development.

"We were pleased to discover that many families reported increased abilities in sharing at home and this was generally reflected in increased sharing out of the home as well. In our observations in the laboratory, increased sharing between sibling was observed as well. Naturally, children who had not participated in the program also increased their skill levels over time as they matured. But we saw additional increases in families where parents were focusing particularly on developing sharing and positive sibling relationships."

Tiedemann said teaching children to share doesn't have to begin and end

in a laboratory setting.

"One aspect of the program that many mothers commented on very favorably was the opportunity to borrow children's and adult's books related to sharing and sibling interaction. Many libraries have further book lists on particular parenting topics and may be willing to put together new lists and displays on request."

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AROUND & ABOUT

SERFing UBC

By RON BURKE

Imagine a stack of used paper as tall as the Ladner Clock Tower — in fact, imagine 262 stacks lined up side-by-side, next to the clock tower.

That's how much paper UBC now recycles per year instead of sending it to the landfill, according to officials at the university's Surplus Equipment Recycling Facility (SERF).

Unfortunately, recycling that much paper — 490 tonnes — is no backyard task. The paper has to be handled many times as part of the collection and recycling process.

"One of the biggest challenges is to put together an administrative framework," explained Brenda Jagroop, Waste Management Coordinator for SERF. "We work with Plant Operations, and they're very supportive, but it's a big job just coordinating the operational end of things."

University supports recycling program

At the moment, no one person or department has absolute control over campus recycling activities. The President's Office has established a task force to develop recommendations on waste reduction, recycling and re-use. The task force will submit a detailed progress report to President David Strangway this month.

"The university administration definitely supports the whole recycling program," said Jagroop. "The chal-

lenge is to make that program reflect the wants and concerns of all members of the UBC community."

SERF staff helped to organize the UBC S.U.P.E.R. Sale last July. S.U.P.E.R. stands for Special University Program to Encourage Recycling and the one-day recycling fair on MacInnes Field was a hit, drawing 5,000 people. The event raised over \$39,000 through the sale of surplus UBC equipment and items donated by campus departments and alumni.



"The sale was a wonderful success," Jagroop said. "It took a lot of work, but it helped to create and promote an attitude of environmental concern. Things like the sale are important if UBC wants to take a leadership role in environmental awareness."

Jagroop graduated from UBC in Metals and Materials Engineering and sees a natural connection between academics and environmental concerns.

"For example, I think the Engineering Departments are going to get more

involved in complex environmental areas, as recycling moves away from a backyard industry," she said.

"Recycling helps to create awareness of environmental concerns." — Jagroop

She has approached a number of departments about giving students class credit for projects related to recycling.

"Right now the only class working with SERF is a fourth-year marketing class developing recommendations for promoting recycling, but we hope to do more in this area," said Jagroop.

In the meantime, SERF has a pleasant problem on its hands: how to keep up with UBC's enthusiasm for recycling.

"Recycling helps to promote awareness of environmental concerns, and awareness leads to reduction and re-use," said Jagroop. "Most people on campus now don't automatically throw everything out — they think about what to do with each item. That's very important and very encouraging."

If you have any questions or suggestions about campus recycling, you can reach Brenda Jagroop in the SERF office at 228-3827.

* * *

Around & About will appear once a month in UBC Reports.



Letters to the Editor

Editor:

In the excellent article on "University seeks portion of provincial health budget for medical research" (UBC Reports, Dec. 13, 1990) you comment that the Faculties of Medicine and Dentistry and the School of Nursing have cross-appointed and clinical faculty members in the various teaching hospitals. I would like

to point out that Pharmaceutical Sciences also has such appointments and that our faculty members are also greatly involved in providing service to patients and in carrying out research in the teaching hospitals.

John McNeill

Dean

Faculty of Pharmaceutical Sciences

Library plan focuses on values and vision



Photo by Media Services

University Librarian Ruth Patrick chaired strategic planning team.

Continued from Page 1

which all services and outreach programs are based."

The seeds of the library's strategic plan for the future were sewn during a two-day retreat at Whistler in October involving about 30 people from the library. Two small groups were then formed to produce draft statements on the library's organizational values and vision, based on discussions at the retreat.

"Identifying the organizational values of the library was the first step in the development of our strategic plan," said Patrick. "Foremost among the

library's values are service, integrity innovation and effectiveness."

More than 160 staff from throughout the library system attended group sessions to discuss the first draft of the library's values and vision for the future. The library is also planning ways for the university community — administration, faculty, staff and students — to review and discuss the strategic plan in the spring. The planning coordination team hopes to produce an interim report, incorporating these strategies, by early May.

Beetles pose costly threat to forest industry

By ABE HEFTER

A problem that is "bugging" the coastal B.C. forest industry in a big way has prompted the Department of Forest Sciences to join forces with MacMillan Bloedel and Phero Tech pest management services.

UBC and the two companies are taking part in a study to determine the extent of ambrosia beetle infestations in logs around the coast of B.C. and to develop an integrated management system to minimize their impact.

The ambrosia beetle is a tiny insect no bigger than a shrivelled raisin. The beetle has always been a scourge of the coastal forest industry, resulting in estimated annual lumber losses totalling about \$200 million.

Forest Sciences Professor John McLean, who is heading the UBC contingent in this study, said the ambrosia beetle is one of the greatest loss factors for the B.C. coastal forest industry.

"The ambrosia beetles attack trees that have been felled and left sitting in the woods, especially western hemlock logs," said McLean. "Standing living trees are not attacked."

McLean said the beetles, which measure about five millimetres in length, burrow their way through the outer sapwood of the tree, leaving tiny pinholes in the wood. Fungus develops in the pinholes and the beetles feed on the fungus.

McLean and his six UBC field teams will set

up shop in the MacMillan Bloedel logging divisions at Nanaimo, Alberni and Powell River and at two sawmills. Another team will monitor

wood stored in the north arm of the Fraser River, including much of the wood stored near UBC.



Photo by Media Services

Professor John McLean points out damage caused by ambrosia beetles in a fallen log.

The log-booming grounds that service each of these regions will be the starting point for the two-year project. The crews will monitor the chain of events that takes the log from the end of the logging phase all the way to the sawmill and track the transportation of the infested logs through the system.

"Over the past eight years, Phero Tech has been catching millions of beetles every year through the use of traps," said McLean. "However, the sawmills are still receiving infested wood. So, although millions of beetles are being caught, we don't know what those numbers mean. This study is aimed at making some sense of those numbers. Phero Tech is well placed to disseminate the results of this study to the industry as a whole."

Ambrosia beetles are a thorn in the side of loggers all around the world, said McLean, especially in the tropics. The resulting damage can reduce the value of the highest grades of wood by about 90 per cent, with no way to repair the damage done to the wood.

"The only thing that can be done with infested wood is to turn it into pulp," said McLean.

The ambrosia beetle task force is jointly funded by the Science Council of B.C. Science and Technology Development Fund, the Natural Sciences and Engineering Research Council of Canada and MacMillan Bloedel Ltd.

People

Salcudean appointed to National Research Council

Science Minister William Winegard has named **Martha Salcudean**, Professor and Head of Mechanical Engineering, to the governing council of the National Research Council of Canada.



Salcudean

A graduate of the Institute of Polytechnics in Brasov, Romania, Salcudean taught at the University of Ottawa prior to her appointment to UBC. She has served on numerous academic and national advisory committees, including the National Advisory Panel on Advanced Industrial Materials.

The NRC's governing council consists of 21 members appointed by the government for renewable terms of not more than three years. The members represent business, scientific and engineering expertise from all sectors of the economy and all regions of the country. The council provides guidance and direction for the management of all policies and programs to ensure that research and development undertaken by

the NRC is relevant to national requirements.

Dr. **Noel Buskard**, Clinical Professor of Medicine, has been elected president of the Canadian Hematology Society for a two-year term. He was also reaffirmed as Canada's representative to the International Society of Hematology.

The Canadian Hematology Society represents Canadian hematologists nationwide on a variety of academic, scientific and administrative issues.

Dr. Buskard also serves as a consultant hematologist at the Cancer Control Agency of British Columbia and he is director of the Canadian National Coordinating Centre of the Canadian Red Cross Society Unrelated Bone marrow Donor Registry.

Robert Miller, Vice-President of Research, and **Julia Levy**, Professor of Microbiology, have been reappointed to the Science Council of British Columbia by Bruce Strachan, Minister of

Advanced Education, Training and Technology. The Science Council, as an agent of the Crown, promotes the development of science and technology in B.C. by drawing on the university and industry community for creative applications of their research. Council members are volunteers with a wide range of expertise.

The council's primary role is to adjudicate awards for research. It will also deliver a number of programs funded by the \$420-million Science and Technology Fund, introduced by the provincial government this spring.

New appointees to the council are Christopher Barnes and Ellen Godfrey, both of Victoria, Colin Jones of West Vancouver and Brian Thair of Prince George. Haig Farris has been designated chairperson of the council.



Miller

Ruth Warick, a former director in the Sas-

katchewan Public Service Commission, has been named the first director of UBC's Disability Resource Centre.

Warick, who started her new job Jan. 7, said the first priority will be to finish hiring for the centre and orient herself to disability related issues on and off campus.

Hard of hearing from birth, Warick has worked extensively with the hearing impaired community on a voluntary basis. She is a founding member of the Canadian Hard of Hearing Association and the National Forum of the Deaf and Hard of Hearing.

From 1981 to 1985, Warick served on an advisory committee looking into the employment of disabled persons in the federal public service. Warick is also chairman of an advisory committee on deaf education to Saskatchewan's Minister of Education.



Warick

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Important AIDS study set to begin this month

By **CONNIE FILLETTI**
 UBC medical researchers will lead the largest AIDS-related clinical trial ever conducted in Canada.

Scheduled to begin later this month under the direction of principal investigator Dr. Julio Montaner, of UBC's Department of Medicine, eight centres across the country will compare the safety and efficacy of ddI versus AZT in patients who have received prior AZT therapy for at least six months.

Dr. Peter Phillips and Dr. John Ruedy of UBC's Department of Medicine and Dr. Martin Schechter of Health Care and Epidemiology are the co-investigators at UBC.

Currently, AZT is the only approved drug for the treatment of HIV disease. However, it is known that AZT is not a cure and HIV disease progresses despite therapy, Dr. Montaner explained.

He added that ddI, a newer anti-HIV compound, is currently reserved for the treatment of subjects with very advanced HIV disease who cannot tolerate AZT, or whose health is deteriorating despite AZT therapy.

"The study, therefore, will answer a critical question by addressing the issue of whether it is better to stay on AZT until clinical deterioration occurs, or to change earlier to an alternate antiviral agent—ddI—to prevent deterioration," said Dr. Montaner.

The study will involve 430 patients who have previously received AZT for a minimum of six months. They will be monitored for a two-year period within the clinical trial.

The study is the first major undertaking of the recently created Canadian HIV Clinical Trials Network being coordinated by UBC's Faculty of Medicine. The network is expected to facilitate clinical trials of drugs and vaccines for the treatment of HIV infection and AIDS.

Funding for the ddI trials is being provided by the Bristol Myers Squibb Corporation of Canada and the United States and will total in excess of \$1.6 million per year.

Classified

Classified advertising can be purchased from Media Services. Phone 228-4775. Ads placed by faculty and staff cost \$6 per insertion for 35 words. Others are charged \$7. Monday, Jan. 14 at 4 p.m. is the deadline for the next issue of UBC Reports which appears on Thursday, Jan. 24. Deadline for the following edition on Feb. 7 is 4 p.m. Monday, Jan. 28. All ads must be paid in advance in cash, by cheque or internal requisition.

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IS YOUR BABY BETWEEN 2 & 24 MONTHS?

Join our research on language development at U.B.C.! Just one visit to our infant play-room. Please contact Dr. Baldwin for more information: 228-6908

Unique HIV Trials Network opens

Perrin Beatty, Minister of National Health and Welfare, will be in Vancouver on Jan. 22 to officiate at the

opening of the Canadian HIV Trials Network.

The network—the first of its kind for AIDS in Canada—will be based at UBC and St. Paul's Hospital, a teaching hospital of the university.

Announced in October, 1989 as a major component of the national AIDS strategy, the network will facilitate clinical trials of drugs and vaccines for the treatment of HIV infection and AIDS, and is expected to improve accessibility of trials on a national basis.

The proposal for funding of the network was prepared by Dr. John Ruedy and Dr. Julio Montaner, of UBC's Department of Medicine, and Dr. Martin Schechter of the Department of Health Care and Epidemiology.

The anticipated cost of the Canadian HIV Trials Network is \$2.5-\$3 million per year of operation.

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Vancouver Playhouse • 8:00 p.m., Tuesday, January 15th, 1991
 Tickets \$20 - Students \$10. Available from TicketMaster or at the door.

822 spells 'UBC' on new campus phone exchange

By CONNIE FILLETTI

UBC will consolidate its telephones within one exchange to meet an increased demand for service on campus.

The new exchange, 822, uniquely identifies the university by spelling U-B-C. It is expected to replace the current UBC exchanges 222, 224 and 228 by July 1, 1991. New telephones installed on campus will be assigned the 822 exchange on March 4.

"The current UBC exchanges have been nearly all assigned, either to the campus or to the surrounding residences and businesses," said Fiorenza Albert-Howard, Director of Networking and Communications.

"We are running out of four-digit telephone numbers that can be given to new customers which do not duplicate an existing campus number. I would strongly urge all UBC person-

nel to advise their off-campus contacts of the impending change."

She added that one exchange will greatly facilitate the strategic planning of voice communication systems. These are necessary to meet the requirements of a rapidly expanding campus in need of increasingly sophisticated communications services.

In addition to the approaching expiration of telephone numbers for new UBC phone customers, the move to a new exchange was the most cost-effective, explained Bernard Sheehan, Associate Vice-President, Information and Computer Systems.

"The overhead to administer any new numbering scheme, retaining the old prefixes at the same time, would have been expensive," said Sheehan. "With the new exchange, the cost to the university will be limited, compared with any other alternative ex-

plored."

All existing users of the UBC telephone system will have only the first three digits changed to 822. The last four digits currently assigned to them will remain the same.

UBC numbers which are directly connected to B.C. Tel will not be affected by the change. These include the Centre for Continuing Education, TRIUMF, Telereg, Forintec, the Vancouver School of Theology and pay phones.

A recorded message will advise callers of the change during and after the conversion. However, off-campus callers will be able to use the old UBC exchanges until Oct. 1, including fax numbers. After Oct. 1, anyone sending an incoming fax must use the new number. After March 4, every outgoing fax should have the new UBC telephone numbers printed on the cover sheet.

Change in telephone numbers - UBC becomes 822

Effective March 4, 1991, UBC is adopting a new prefix for most of its on campus telephone numbers. It will be "822" (or "UBC" if you use the letters on your telephone's dialer.)

If your current number is in one of the following blocks:

222 - 8600 to 8699

- 8900 to 8999

224 - 8100 to 8599

228 - 2000 to 7999

your new number for off campus callers will be 882-xxxx (or UBC-xxxx) or for on campus callers 2-xxxx.

If your current number is not in one of the above blocks, your telephone number will remain as it is.

If you currently use a PBX local, your four digit local number will be from one of the following blocks:

0000 to 1099

1200 to 1999

8700 to 8899

and it will be reached from on campus by dialing 3-xxxx.

Women's Resources Centre assists in setting goals



Photo by James Loewen

Director Ruth Sigal (left) with staff of the Women's Resources Centre.

By CONNIE FILLETTI

It was the only one of its kind in Canada when Pat Thom, then director of daytime programming for UBC's Continuing Education Centre, first opened the doors to the Women's Re-

sources Centre in 1971.

From its humble beginnings as a table and chair tucked away in a small corner room at UBC, the centre has expanded into a facility visited by an estimated 15,000 people a year at its

present location in a cramped, but friendly, walk-up on Robson Street.

With a tiny advertising budget, most people hear about the centre through word of mouth, said program assistant Margaret Wilson. So far, it's proved to be an effective form of promotion. Visitors from Japan, Germany, England and Australia have all stopped by at one time or another.

What they are likely to see when they first enter the centre are pictures of playful kittens and warm sunrises sharing office space with advertisements for community events, vocational files and brochures on support groups and resources.

"The Women's Resources Centre is a life planning centre whose mandate is to assist women and men in identifying and setting career and personal goals," said Ruth Sigal, director of the centre.

She added that it is also the centre's role to help people develop a positive action plan for the future, and to empower women, through educational means, to be self-reliant.

Among the many services offered

at the centre are personal development programs including stress management, life planning, self-assertion, self-esteem and a support group for women experiencing changes in their personal lives, careers or relationships.

A unique feature of the centre is its career programs which have been designed to help both women and men acquire the information and skills to make choices in setting future personal and career-related goals.

"We are here to help women help themselves," said Wilson. "But we are also expanding our programs to include men. They are not turned away at the door. There is nothing like this centre for men, and they need counselling, too. Right now we are able to assist them mainly through workshops and with vocational testing."

Another staple of the centre, since its inception, has been its free, drop-in counselling information and referral service.

"It's a comfortable and non-threatening setting where our clients receive counselling, education and information," said Sigal. "They are treated with

respect and empowered to do their own problem solving. They also know they can come back any time and use our resources as needed."

The centre has been virtually self-sustaining through its programs from the very beginning.

All programs and workshops are run by a team of instructors and professional counsellors, as well as two full-time UBC staff at the centre who are assisted by a roster of 60 volunteers. More than half a dozen volunteers are UBC graduate students who also do their research and practicums at the centre every year.

Maxine Woogman, who is pursuing a Masters degree in Adult Education, has been a volunteer at the centre for the past 19 months. She said the experience has given her a sense of accomplishment and the feeling that she has helped a wide variety of people with common concerns.

"As long as I am in Vancouver, I will continue to volunteer at the centre," said Woogman. "I think of it as home."

Apparently, so do thousands of others.

Co-op program to give practical experience to engineering students

By GAVIN WILSON

A proposed cooperative work-study program in civil engineering will encourage more students to pursue graduate studies and strengthen ties with industry, the program head says.

Believed to be the only program of its type at the graduate level in a Canadian engineering school, the Professional Partnership Program will allow students to combine classes and research with practical experience, said Civil Engineering Professor Denis Russell.

"The program will help students avoid the difficult choice between getting a job immediately after graduation, or going on to graduate studies, by providing a palatable way to acquire advanced knowledge without the risk

of divorcing themselves from the practical world," he said.

Currently, only 25 per cent of engineering students eligible for graduate school can get financial support to continue their studies. Without funding, few students are willing to forego the salaries and experience they could earn in the workplace.

The recession of the early 1980s also left a big impression on engineering students.

"The conventional wisdom of new graduates is: if you have a choice between a job and graduate studies, you better take the job," said Russell.

He added that the new program will also benefit employers by giving them enthusiastic and well-qualified students with access to the university's faculty

and laboratory resources.

"They might have a nagging little problem they know they could solve if they only had the time to do it. We'll provide them with a bright, keen student to do the research. It's a win-win situation for everybody," he said.

"The program involves some matchmaking between employers' and students' objectives, but we at the university are keen to facilitate the process," said Russell.

Industry needs better-trained engineers because of increasingly complicated technical problems, particularly in the environmental field where there is a whole new range of demands to be met.

The university will also benefit by

Service award instituted for university employees

UBC has established a President's Service Award for Excellence to recognize university employees for outstanding performance in their work.

Five special presidential medals could be awarded annually to a select number of recipients from all levels of the university's staff and faculty. All UBC employees and students will be given the chance to nominate candidates for these awards.

The medals will complement a number of specific research and teaching awards already in existence at UBC. They are the Killam Research Prize, Faculty Teaching Awards, The Jacob Biely Research Prize, The Charles A. McDowell Award for Excellence in Research, the Alumni Prize for Research in the Humanities and the Alumni Prize for Research in the Social Sciences.

keeping faculty in touch with current practice in the field, Russell said.

Under the program, a graduating student would work for a company for the first summer at full salary and then return to university for course work during the following winter session, from September to May. During this

time, students would be funded at about \$1,000 per month, the normal rate for graduate students.

After the course work is done, the student can pursue research, at full salary, on a project of direct interest to the company either at the university or on the job.