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 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 public-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 university 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 library's intellectual property work in 1982. Since then, Fowler has been patient.

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Drug may contribute $750,000 in royalties

Continued from Page 1

formed company to be called Univer-
sity 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 re-
usal 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 feels both
comfortable in coming to us for help
with their disclosures," said Murray.
"A new company would take close to
10 years to get to where we are now
and by that time we would have lost
any advantage we might have gained."

Murray warned that faculty mem-
bers would publish their research rather
than disclose it to the UEBC. He added
that published material cannot be pat-
tented. However, the committee report
said technology transfer must be more co-
nordinated and aggressive in fostering
links with local B.C. companies.

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at just how affordable it is to have your own custom made colour copies. Please call for more information.

UBC Media Services Photography 228-4775

Drug may contribute $750,000 in royalties

The report proposes that the pro-
vincial government contribute $2 mil-
lion a year to UEBC for a period of up
to five years. UEBC would also be di-
bled to raise funds from private inves-
tors.

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
eased from a handful each year, in
the early 1980s, to almost 100 per
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 remain-
der.

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.

This job takes time and patience be-
cause the road is full of obstacles," said
Fowler, who added that fostering smaller inventions is necessary to in-
crease royalties until the big ideas blo-

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
Canadian Columbia Consulting
Services, MacDonald Detwiler,
MDI Mobile Data International,
Nexis funding engineering, In spite of
Enginey and Quadra Logic Technolo-
gies.

Now you can have colour laser
photo-copies just like your original.

Or, Not like the original at all.

Negative impact on
research feared
75 Years celebrated in one great year

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 test 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 success.

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 activities, 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 program 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 Trekkers 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.

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

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

Photo by Media Services

A familiar sight throughout the anniversary, the UBC Letter People were official campus mascots for the year.
MONDAY, JAN 14
Piano Masterclass
Richard Goodie. Adult rec., 7:30 at the door. Recital hall at 7:30pm. Call 228-3113.

Pediatrics Research Seminar
90th Series. More Clinical Trials-Res- tode: The Human Story. Dr. Ruth Mil- ler, Research Support Unit, University Hospital, Shaughnessy Site D007 at 12pm. Call 228 or Dr. Skala at 875-2492.

Mechanical Engineering Seminar

TUESDAY, JAN 15
Lectures In Modern Chemistry

Statistics Seminar

WEDNESDAY, JAN 16
Forestry Seminar
Alpine Tundra And Forest Vegetation In Changbai Mt. Dr. H. Gao, Forest Scien- cies, UBC. MacMillan 166 from 12:30- 1:30pm. Free admission. Call 228-2507.

Microbiology Seminar Series
Glycosylation De-Branching Enzymes. Dr. Steve With- ers, Chemistry, UBC. Wesbrook 201 from 12:30- 1:30pm. Call 228-6468.

Resource Ecology Seminar
Nutrient Budgets And Fire Effects In Hearthland Watershed In Spain, Cristina Selles, Forest Sciences, UBC. Biosciences 2449 at 4:30pm. Call 228-4350.

THURSDAY, JAN 17
Pharmacology Seminar
The Uses And Abuses Of Angel-Dust (Phencyclidine). Dr. John Church, Psychopharmacology Lab, UBC. IRC #1 from 11:30-12:30pm. Call 228-2576.

Microbiology Seminar
Regulation Of Interferon Gene Express: Implications For Therapy. Dr. Paula M. Prieto-Rivera, Dr. Martin Hopkins, Wake Forest, MD. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Physics Colloquium
Interstellar Gas. Bill Urlich, Physics, UBC. Harrington 201 at 4pm. Call 228-3653.

FRIDAY, JAN 18
Obstetrics/Gynecology Grand Rounds
Idiopathic Thromboocy- topenia Purpura In Pregnancy. Dr. P. Baiely. University Hospital School of Medicine Lecture Theatre D007 at 8am. Call 875-2171.

Pediatrics Resident Care Manage ment
Management Of Urinary Tract Infection. Dr. Margaret Colbourne, Preventor. Dr. Saag A. Sclatus, Occlusion. G.F. Strong. Senior Admission at 5pm. Call A.G. Ferguson at 875-2175.

German Lecture

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, D329 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3110. The next edition of UBC Reports will be published Jan. 24. Notices exceeding 15 words may be edited.

Geophysics Seminar
Data Reduction And Seismic Interpretation: The Next 10 Years Of Seismic Activity In The Canadian Cordillera. Dr. Wayne Dryg, Geology, UBC Geography 201 at 3:30pm. Call 228-3268.

Geography Colloquium
Landscapes As Indicators Of Nontropical Activity In The Canadian Cordillera. Dr. Wayne Dryg, Geology, UBC Geography 201 at 3:30pm. Call 228-3268.

Institute of Asian Research
Brown Bag Seminar
Visualising The North Atlantic Migration To Australia. Dr. Christine Ing. Centre of Studies in Demography/Ecology, UBC. Wesbrook 604 at 12:30pm. Call 228-4568.

Wednesday Noon-Hour Series
Lakshaya String Quartet with Robert Silverman, piano. A program II at the door. Music Recital Hall at 12:30pm. Call 228-3113.

Applied Mathematics Seminar
Effects Of Topography And Coastal Geomorphology On Coastal Dune Flow. Dr. Susan Allen, Oceanography, UBC. Mathematics 209 at 3:45pm. Call 228-4564.

Physics Colloquium
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German Lecture
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 228-7446.

School of Nursing Study
Volunteers are needed who are both in paid employment (over 20 hr/week) and have at least one child under eighteen months of age. Interventions will occur on weekends (twice: 10 a.m.-1 p.m. and 2-5 p.m., twice), and free to interact with the children.

School of Family/Nutritional Sciences Study
Eating habits of children. Female volunteers needed, age 27-38, with a minimum of two children between the ages of 6-12 months. Session 2 weeks, with a minimum of two children (10-15 minutes each time). Call Wendy Hall at 228-7147.

School of Physical Therapy
Couples are needed who are interested in the study of joint pain and function and are willing to participate in a study to determine the effects of a new drug. Call Donnie Keller at 228-3218.

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

Psychiatry Personality Questionnaire Study
Volunteers are needed to complete two 90-minute sessions. Session 20.00. Call Janie at 228-7865-7013.

Diabetic Clinical Study
Diabetics who have controlled blood sugar levels and are interested in participating in a research study. Call Dr. Donald Snyder at 228-7302.

Diabetic Rhythms Study
Daily patterns in physical capability and diabetes management. Call Dr. Linda L. Carpenter at 228-8212.

Psychiatry PMHS Study
Participants needed for a study of an investigational drug to treat Attention Deficit Hyperactivity Disorder: MDZ. Call Dr. J. D. Carter at 228-7219.

Counselling Psychology Retirement Preparation
Volunteers interested in planning their retirement needed for research project. Discussion on related issues included. Call Sara Comfort at 228-3094.

Sleep Disorders Study
Volunteers needed for 14-day study on sleep disorders. Call Dr. J. A. Lam at 228-7129.

Hypertension in Pregnancy Study
Participants are needed who are pregnant women, aged 18-40, with a history of high blood pressure. Call Dr. Linda L. Carpenter at 228-8212.

Post Polio Study
People with polio who are interested in participating in a research study. Call Dr. Sarah Smith at 228-7302.

Multiple Schizophrenia Study
Participants with mild to moderate symptoms are needed for a study on exercise responses and medication. Call Dr. Elizabeth Dean, Ph.D., School of Rehabilitation Medicine, 228-7392.

Statistical Consulting and Research Laboratory
SCARL is a computer service available to UBC staff and students. Call 228-3027.

Surplus Equipment Recycling Facility
All surplus items. Every Tuesday, 1-3 p.m. Call 228-8880.

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 Melissa Wahl at 228-0844.

Volunteering
To find an interesting and challenging volunteer role, get in touch with Volunteer Services, Counselling & Resource Centre, Brock 200. Call 228-3817.

Neville Scarfe Children's Garden
Located west of the Education Building. Free admission. Open year-round. Families interested in planting, weeding or volunteering are invited to meet at 228-6866 or Jo-Anne Naundorf at 434-1081.

Botanical Garden
Open every day from 10 a.m.-3 p.m. until Mar 15/97. Free admission. Call 228-8928.

Sharing key factor in child behavior

By Abe Hefter

Teaching pre-school children how to share can be as much fun as pulling teeth. However, a study conducted by the Psychology Department at UBC has shown that, with a little effort, parents can lay the groundwork for social skills that will help their children to share.

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

"Sharing is a key indicator," said Tiedemann, who helped with the study in UBC's psychology department. "It's important for parents to teach their children to share and to reinforce that behavior."

It's important for parents to teach 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 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 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 many 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 and developing social skills.

"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 follow-up at the laboratory, increased sharing between siblings was observed as well. Naturally, children who were partners in sharing at home 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," said Tiedemann.

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 be. However, children's and adult's books re- lated 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."
Beetles pose costly threat to forest industry

By ARE HEPFER

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 shredded raisin. The beetle has always been a problem in the forest industry, resulting in estimated annual lumber losses totaling about $300 million.

Forest Scic. 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 millimeters in length, burrow their way through the outer sapwood of the tree, leaving tiny "drinking tubes." 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.

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 discarding the 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.

Professor John McLean points out damage caused by ambrosia beetles in a fallen log.
Salcudean appointed to National Research Council

Science Minister William Wroblewski has named Martha Salcudean, Professor and Head of Mechanical Engineering, to the National Research Council's National Science and Engineering Council. A graduate of the Institute of Polytechnics in Braasov, 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 reappointed 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 Julius Levy, Professor of Microbiology, have both been appointed 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 $426 million Science and Technology Fund, introduced by the provincial government this spring.

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

Ruth Warick, a former director in the Saskatchewan Public Service Commission, has been named the first director of UBC's Disability Resource Centre. Warick, who started her new job on Jan. 7, says that 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 at Saskatchewan's Ministry of Education.

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 Classified

Important AIDS study set to begin this month

By CONNIE FILLETI

UBC medical researchers will lead the largest AIDS-related clinical trial ever conducted in Canada. Scheduled to begin 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 never received 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 Healthcare 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, the drug is stopped, 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 under-taking of the recently created Canadian HIV 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.

Unique HIV Trials Network opens

Perrin Beatty, Minister of National Health and Welfare, will be in Vancouver on Jan. 22 to officially open 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 $2.5-5 million per year of operation.
822 spells 'UBC' on new campus phone exchange

By CONNIE FILLETI

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-BC. 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 Florence 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 personnel 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.

"We are running out of new numbering schemes for engineering students, said the Pfinder, 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 curriculum which has been designed to help both women and men acquire the information and skills to make choices in setting future personal and career-related goals. 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 counselors, as well as 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 the center.

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.

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 to 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:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>New Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>222</td>
<td>8600 to 8899</td>
</tr>
<tr>
<td>224</td>
<td>8110 to 8599</td>
</tr>
<tr>
<td>228</td>
<td>2000 to 7999</td>
</tr>
</tbody>
</table>

Women's Resources Centre assists in setting goals

Women's Resources Centre

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

"This way we're not only helping 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 matching 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 computer field. Engineering is a whole new range of demands to be met. The university will also benefit by keeping faculty in touch with current practice in the field," said Russell.

Under the program, a graduating student would work for a company for the first summer of their final year, 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, with full salary, on a project of direct interest to the company either at the university or on the job.

Co-op program to give practical experience to engineering students

By GAVIN WILSON

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