



Medical school cited for research

By **CONNIE FILLETTI**

UBC's medical school has been recognized for its excellence in clinical research.

A study by the Philadelphia-based Institute for Scientific Information (ISI) ranked UBC fourth among 16 Canadian medical schools in the area of clinical research. The study examined the impact of university research on the scientific community by measuring the average number of times research published from 1986 to 1990 was cited in other scientific articles.

Of the 1,652 papers published by UBC researchers, there were 6,469 citations in journals of clinical medicine, an average of 3.92 times each.

Topping the list was McMaster University which published 1,158 papers that were cited in other research an average 5.27 times each. The University of Manitoba ranked second, followed by the University of Toronto in third place.

In terms of output, UBC ranked second to the University of Toronto, which published 3,244 papers over the studied five-year period.

"UBC has a wide variety of strengths in medical research," said Dr. David Hardwick, associate dean of research and planning in UBC's Faculty of Medicine.

"The areas are too numerous to quote, but some that stand out are brain, lung and cancer research," he said. "It's almost hazardous to point out so few because the list just goes on and on. But we're delighted that UBC professors are being quoted."

However, Hardwick argued that the ranking was a "non-issue." He explained that variations in topical issues from year to year would impact on the number of times a particular research paper would be quoted.

Much of the University of Manitoba's high ranking came from a number of studies describing the spread, treatment and prevention of AIDS and venereal diseases in Kenya.

Worldwide, the average clinical medical paper was cited 2.48 times. The average among U.S. medical schools was 4.19 times.



Members of the UBC Thunderbirds soccer team pose for photo at Queen's University after winning the 1991 men's soccer championship final.

UBC Athletics ranked number one

By **ABE HEFTER**

We're number one.

Based on the results of a recent survey of Canadian universities by Maclean's magazine, UBC topped the country in varsity sports for 1990-91. The survey took into account the results of the 16 national finals in men's and women's competitions.

The University of Toronto finished second, followed by the University of Manitoba and the University of Western Ontario.

If Athletics Director Bob Hindmarch had to put his finger on the key to UBC's success on the playing field, he would point to the coaches that make up the varsity roster.

"UBC is one of a handful of universities that looks at coaching as a profession," said Hindmarch. "All of our coaches are professionals and first-rate teachers. To be a good coach, you've got to be a good teacher."

Few coaches have been as successful on the Canadian university scene as UBC's Gail Wilson and Dick Moser.

Moser's soccer team captured the CIAU men's crown this year, his third championship in the last four seasons. His squad has been invited to represent Canada at the University World Championships in New Mexico in April.

Wilson, a senior instructor in the School of Physical Education, has

guided the women's field hockey team to five championships since 1977. A recipient of a 3M Coaching Canada Award for outstanding coaching achievement, she guided the team to the Canadian Inter-University Athletic Union title in 1990-91. Wilson said UBC's tradition has gone a long way in ensuring the long-term success of the athletics program.

"The values which are important to me as a coach were instilled here a long time ago," she said.

"Being part of athletics at UBC means being part of a winning team, and the expectations that go with it. This university's pursuit of excellence, including athletics, over the years has

been nothing short of remarkable."

UBC's success in athletics in 1990-91 cut a wide swath across the country. The men's soccer team repeated as CIAU champions for the fifth time in seven years, while the women's team took home Canada West honors.

The women's field hockey team captured the CIAU title last year, and came away with the silver medal this year. The men's basketball team took the Canada West title, as did the women's cross-country team. In addition, UBC hosted and won the inaugural World Invitational University Team Golf Championship

See **SUCCESS** on Page 2

Inside

PRESERVING HISTORY: UBC Archivist Chris Hives ensures the survival of important artifacts from the university's past. *Profile, page 3*

RECYCLED WASTE: A UBC project on Vancouver Island will compost waste from fish farms and forest products for use on farms. *Page 5*

LONG-TERM DENTAL CARE: A study finds that dental care for residents of long-term care facilities is being neglected. *Page 12*

Library releases blueprint for the future



Ruth Patrick

By **ABE HEFTER**

The UBC Library has released a summary of its draft strategic plan which describes a vision for its future.

The plan also outlines strategies for building support both within and beyond the Library over the next 10 years, said University Librarian Ruth Patrick.

Patrick said the next step will be to review the response from the university community to the plan. She also plans to meet with members of the faculties this spring.

"At that time, we'll discuss the plan and the needs of each individual

discipline," she said.

Patrick said one of the keys of this entire process was the analysis of external factors influencing the library. These ranged from demographics, the economy, and university academic programs, to the publishing world and new information technologies.

Changing university programs and priorities, increased number of graduate students, the emphasis on research, the information explosion and rapid price increases will demand ever more innovative solutions from the Library, said Patrick.

To find such solutions, she said,

the Library needs a flexible organization sensitive to changes in user requirements, and to changes to the technology and communication of information.

"There's a certain flexibility that is built into the plan, which will allow us to review strategies and make whatever updates or changes are necessary," said Patrick.

"I hope faculty, students and staff will take some time to review the plan and submit their comments to me on their view of the challenges and opportunities facing the Library."

See **insert, page 6, on Library Plan**



Letters to the Editor

Immigration point system: is it truly fair?

The Editor:

"Immigration Policy and Canadian Society" by Professor Daniel Hiebert (UBC Reports, October 31, 1991) is an informative but relatively uncritical dissertation. It provides an opportunity, in the interests of the much needed public debate on Canada's immigration policy, to make these comments.

Professor Hiebert tells us that under the points system applicants from all countries and of all ethnic origins are, in theory, treated equally. In theory that is so but the points system is only applicable to those who must apply in the independent class. It does not apply to the large numbers who enter under the provisions of family class sponsorship. The system works this way.

For sponsorship purposes, the average new Canadian family is not a family group in Canada anxious to be joined by one or more relatives overseas.

An extended overseas family begins with the first member to obtain landed immigrant status on merit (a process being increasingly discouraged as we shall see) or, more frequently, as a marriage partner, a sponsored family member, a successful refugee claimant, or as a person given permanent residence through an amnesty or some form of relaxed screening.

This is usually followed by the first member sponsoring a parent who in turn can be joined by other family members who come in by right as accompanying dependents. This route and Canada's social security net are attractive to those without an economic base at home.

The system does not accommodate potential young immigrants from countries with a level of economic development parallel to that of Canada and, more particularly, it does not accommodate young immigrants belonging to the traditional immigrant groups that built this country. The parents of these potential immigrants, busy with their own careers, are not free to emigrate and bring their children.

These young people, on completing their education and perhaps anxious to join a sibling and build a career in Canada, cannot get into this country easily.

They have three alternatives. Marriage to a Canadian is 100 per cent successful and the convenience marriage, reserved for those without character, is popular. With the abandonment of the United Nations's definition of a refugee and the application of much relaxed criteria in the refugee determination process, acceptance rates have increased threefold to over 70 per cent, thus encouraging the flow of bogus refugee claimants.

However, the young people referred to are restricted to entry as independent immigrants. Independents are selected on merit based on the contribution they can make to Canada's economy. Chances of success are minimal.

Effective May 15, 1991, the new minister for immigration, the Honourable Bernard Valcourt announced new procedures based on the "Canadian Classification and Dictionary of Occupations." We now have a General Occupations List and a Designated Occupations List, which governs the entry of independents.

The designated list is limited to 23 job titles and 1,100 jobs. Qualified applicants receive extra points assuring acceptance and, as shortages are filled, the job designation is removed from the list.

The general list is represented as including 900 eligible occupations in 112 broad occupational groups. That is the list, but only 56 of

those 900 occupations are accorded the full 10 points for job skills and admission is subject to job availability. More specifically, 33 of those job designations are for medical or dental technicians; 18 are for various chefs and cooks, and then one designation each for die setters, blacksmiths, power hammer operators, pattern moulders and petroleum process operators.

With only 1,100 jobs certain in 1991, 1,400,000 unemployed, including thousands with technical skills and with virtually no demand as revealed by those lists, one wonders whether there will be jobs for more than 5,000 of the 21,500 independent immigrants scheduled for 1992.

Despite the job shortage and rising unemployment, the minister, in his annual report, endorses a quota increase for the family class from 80,000 to 100,000. They come without reference to literacy, labor market skills or any evidence of their ability to successfully settle in Canada as required by Section 6 of the Immigration Act.

Put simply, in its application, Canada's immigration policy does not treat all people equally but favors those least able to successfully settle in our country and discriminates against those with skills, talents and ability to integrate easily, which were the hallmarks of the successful immigrants who built this country.

Refugee claimants accepted in the determination process are landed, subject to health and criminality checks and with landing goes the right to family sponsorship. I suggest this answers Professor Hiebert's concern that "three quarters of refugees admitted are men when 80 per cent of the world's refugees are women and children." Among those suffering genuine persecution, it is probable the father of the family would make the effort to file a claim in a welcoming country and be the subject of the decision. Under a refugee determination system, the auditor general describes as "close to collapse," there are those who take advantage. Probably 75 per cent of claimants would not have met the abandoned United Nations Convention definition of a refugee. It is not unreasonable to expect that young men of families in countries suffering disadvantage or internal strife would be chosen to establish a family beachhead in Canada in anticipation of acceptance as a refugee and the accompanying benefits of family sponsorship. The women and children will follow.

What has been the effect of all of this?

Academic studies at the universities of Western Ontario and Simon Fraser show a steady decline in productivity of immigrants arriving over the last quarter century. Western Ontario studies differentiate between traditional immigrant groups and new immigrant groups. Those from traditional sources have fallen from 95 per cent to 35 per cent of all immigrants and maintain a level of productivity (expressed as income) above the Canadian average while those from the new groups have increased from 5 per cent to 65 per cent of all immigrants and the productivity of the most recent entries has dropped to a level 25 per cent below the average of other Canadians.

It all emphasizes the importance of an ongoing public debate and a close examination of our immigration policies and their administration.

Charles M. Campbell

Charles Campbell is a UBC alumnus and former vice-chair of Canada's Immigration Appeal Board.



Diving Safety Officer Sheila Thornton oversees the university's scientific diving program.

UBC divers explore underwater science

By ABE HEFTER

Every few months, Zoology lecturer Sandra Millen trades in her textbooks and notepad for a wet suit and an oxygen tank.

Millen, a marine invertebrate biologist, is among the 25 UBC faculty, staff and students who spend their time underwater in the name of research. She is currently diving off the west and northeast coast of Vancouver Island in search of nudibranch molluscs, also known as shell-less snails.

"These snails have very interesting pharmaceutical properties," said Millen. "They produce compounds that are anti-fungicides and anti-bactericides. Compounds like these may one day be used as part of an anti-cancer agent."

Millen has also been involved in diving expeditions off of Alaska, Australia, Tahiti, Peru and the Caribbean. She spends an average of two weeks on each expedition. Although she does most of her diving in the spring and summer because of heavy teaching commitments, diving conditions in B.C. are better during the winter months.

"The water is clearer in the winter because the overcast conditions inhibit plankton growth," said Millen. "Plankton needs sunshine to thrive."

Surveys indicate there are far less accidents in scientific diving than in other diving classifications, such as recreational, says Sheila Thornton,

whose responsibility is to make sure the 25 people in areas such as oceanography, botany and zoology, who collect marine organisms as part of their UBC research, do so safely.

Thornton is the university's new diving safety officer who works out of the Occupational Health and Safety Office. She oversees UBC's scientific diving program, with the UBC diving safety manual the basis of the program.

"Faculty, staff and students who want to be granted scientific diving status by the university must maintain a high level of expertise," said Thornton.

"They must be skilled in cardio pulmonary resuscitation and advanced rescue techniques, and must submit monthly logs so their progress can be monitored. This ongoing program ensures that divers maintain a high level of safety and training, whether they are currently active in diving, or not."

Thirty per cent of UBC diver training is held in the water. Thornton tries to get out to each diving research site to monitor the progress of each diver in his or her particular surroundings. Dry land training makes up the rest of the program.

"Diving is a scientific tool," said Thornton. "I encourage faculty and staff members who have students connected with departmental research projects to join our scientific diving program."

Success the result of effort and support at all levels

Continued from Page 1

featuring teams from the U.S.A., Scotland, Japan and Canada.

UBC's focus on international competition has also played a part in its success in athletics, according to Hindmarch.

"We have always been able to look beyond our borders," he said.

No accounting of UBC's athletic prowess would be complete without an acknowledgement of the level of support the program has received from both the student body and the university administration, said Hindmarch.

"David Strangway's vision has been instrumental in the success of UBC's athletics program," he said.

"Thanks to his efforts and the efforts of people like K.D. Srivastava, vice-president of Student and Academic Services, UBC has made a commitment and exhibited a belief that athletics plays an important role

in the academic community."

Hindmarch said that belief is shared by the students, with great support from the Alma Mater Society and the University Athletic Council.

"The number of bright, young athletes we have here is incredible. They share in the spirit and enthusiasm that runs through our entire program, including the coaching staff, trainers, managers, physiotherapists and the rest of the support staff."

Although Hindmarch admits that being number one in the Maclean's poll was great, he truly believes that it's not whether you win or lose, it's how you play the game.

"You will always have peaks and valleys in sport. What we have at UBC is a sound athletics program and a sound basis from which we work. The result has been an improved level of ability in all sports over the years," he said.

"If you care for your people, as our coaches do, then you'll do well."

Legal Clinic brings students to front line



Photo by Media Services

Third-year law students Kathy Pepper and Tony Fogarassy tend to clients at their desk in the UBC Legal Clinic behind Brock Hall.

By CHARLES KER

Cutting cadavers in a lab is a long way from the hospital operating room.

So too, dissecting legal cases in class is far from addressing a jury in court.

Professor Gerald Green, director of UBC's Legal Clinic, believes law students, like their counterparts in medicine, need exposure to real-life situations to better prepare themselves for what lies ahead.

"It's much the same as a clinical offering of a medical faculty," said Green, in his second term as director. "We try to give students what will most likely be their first crack at dealing with living clients as opposed to classroom theory."

For the past 16 years, the clinic has offered a comprehensive training program to students in the university's Faculty of Law.

Serving about 1,000 low-income clients in Vancouver each year, the clinic gives future lawyers a chance to finally apply some of the knowledge they'd previously only read about in books.

Operating out of a portable classroom behind Brock Hall, the program is an elective open to about 14 second- and third-year students each semester.

For three months, from 9 a.m. to 5 p.m., five days a week, these "temporarily articulated" students act on behalf of people charged with criminal offences such as shoplifting, drug possession, and impaired driving. At no charge, they also represent clients in family disputes, immigration and welfare hearings, small claims court or grievances between landlords and tenants.

Tony Fogarassy, in his third year, said appearing before a judge or tribunal under often emotionally charged circumstances has been an eye-opening experience.

"Most law students don't get the opportunity to get down into the trenches of the provincial courthouse," he said. "That's where you come face-to-face with drugs, unemployment, mental illness and people whose emotions are being stretched."

Apart from weekly visits to the courthouse to meet clients or pick up case documents, students

also get a chance to shadow a lawyer on morning rounds in jail. There, they sit in on interviews with people who have been arrested and held overnight for one reason or another.

"It involves interviewing in a small room with people who have had little or no sleep," said third-year student Kathy Pepper.

Pepper signed up for the clinic to get a better understanding of different elements of the justice system. But the three-month program hasn't shaken her resolve to pursue a career in corporate-commercial law.

"At the clinic, you're almost like a psychiatrist at times," she said. "The exercise has certainly made me more aware of the range and complexity of problems people face."

Juggling about 20 files each, the program gives students a sense of how a law office operates from conducting interviews and appearing in court, to deciphering police reports and mundane filing practices.

Green and two other senior lawyers oversee the clinic's operation inside and outside the courtroom. Together, they work one-on-one with the students, scrutinizing their ability to develop legal arguments, cross-examine witnesses, plead bargain and present evidence.

On average, students at the clinic might make a half dozen appearances before a judge in court. Most of the time, however, clinic cases don't make it to trial and students are left to negotiate a settlement between claimant and defendant.

When they do get to court, clients often plead guilty, at which point it's up to the student to start advocating for a reduced sentence.

Another opportunity for UBC law students to gain practical experience is available through the Law Students' Legal Advice Program (LSLAP). While not for credit, more than 150 students participate each year in the program which handles cases similar to the Legal Clinic through walk-in clinics throughout the Lower Mainland.

Both the clinic and the legal advice program draw clients primarily through word-of-mouth. For more information regarding the clinic, call 822-5911.



Profile

Modern methods preserve the past

By GAVIN WILSON

As Chris Hives is the first to admit, many people on campus don't know who he is or what his job entails. But in his hands is the entire recorded history of the university.

As University Archivist, Hives has the Herculean task of overseeing a mountain of material: millions of documents, 200,000 photographs, 3,365 audio and video tapes, 2,500 maps, plans and drawings, a few 78 r.p.m. recordings and a jacket that belonged to a student nearly 70 years ago.

"It's amazing, the stuff that has survived," he says.

If you took all the documents in the Archives and stacked them up, they would form 25 piles as high as the Ladner Clock Tower. The photos would carpet the floor of the War Memorial Gym twice over.

With some lamentable gaps, this is the history of UBC, from 19th century government documents on the need for a university in the new Canadian province, to a videotape of last fall's Congregation.

Hives noticed a new appreciation for the Archives with UBC's 75th anniversary celebrations, which made people aware of the university's past achievements.

"UBC has now reached an age in its history where people are beginning to recognize it is important to preserve our history," he said. "There's a sense of pride and tradition."

Hives' interest in archival work stems from his academic background. He has one master's degree in Canadian history from the University of Western Ontario and another from UBC's School of Library, Archival and Information Studies in the archival studies program, which is the only one of its kind in Canada.

The Archives was established by the Library in 1970 and developed under the guidance of archivist emerita Laurenda Daniells for 18 years until her retirement in 1988, when Hives took over.

Archived material is held in three locations, on two floors of the Main Library and in the basement of the Library Processing Centre.

In the vault on the eighth floor of the Main Library where the most fragile materials are kept, there is row upon row of acid-free boxes and file folders, kept at a constant temperature and humidity.

Hives pulls out bound copies of the Ubysey.

The very first issue, printed on glossy, high-quality paper in 1918, looks like new. But an edition printed on newsprint 20 years later is yellow and brittle, its edges flaking away.

It illustrates the problems involved in keeping tons of deteriorating paper and the need to move into microfilm, computers and optical disks.

"Archives are not musty, dusty catacombic repositories of ancient material, as the romantic notion would have it. There are no cobwebs," said Hives. "In the modern information age, it just doesn't work that way."

In common with all archivists he is faced with the problem of what to keep and what to assign to the dustbin of history.

"The underlying rule of thumb is that three per cent of records have archival value," says Hives. "The difficult process is determining which three per cent."

The information explosion does not make the job any easier. Where once there was a single copy which was circulated, there are

now dozens of photocopies in everyone's files. Computer disks are re-used, vital information erased in the blink

"People are beginning to recognize it is important to preserve our history."

of an eye.

"Trying to come to grips with this is a monumental problem," said Hives, who has no professional staff and must rely on individual departments to identify and transfer permanently valuable documents.

A University Archives Advisory Committee has considered a number of issues confronting the Archives and has recommended the adoption of a more systematic approach to the management of administrative records.

"Everyone is attempting to deal with the problems of the information explosion independently," said Hives. "There are certainly various economies of scale if we approach these problems collectively."

Hives may be a one-man show, but he's not lonely. Instead, he enjoys his job, which allows him to visit people and places from one end of campus to the other.

"Archives are a people thing," he says. "It's people who make history, and archives consist of the physical evidence of the activities of people — their contributions and legacies, as well as their quirks and idiosyncrasies."

"In this job, I learn more about the history of the university each day. It's really a wonderful position."

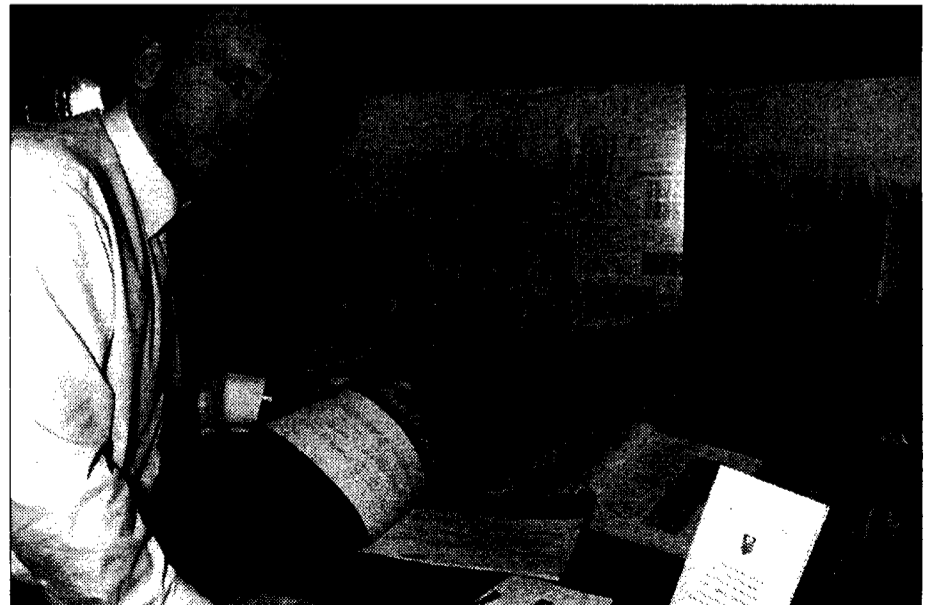


Photo by Media Services

UBC Archivist Chris Hives examines some of the items held in the university archives.

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January 12 –
January 26**MONDAY, JAN. 13****Paediatrics Grand Rounds**

Wernicke's Encephalopathy Is Not An Adult Disease. Dr. Michael Seear, Intensive Care Unit, BC Children's Hospital, Paediatrics. BC Children's Hospital 3D16 ABC at 12pm. Refreshments at 11:45am. Call 875-2492.

Astronomy Seminar

The Planar Array Of Superheated Superconductors: A Cryogenic Detector For Non-Baryonic Dark Matter. Dr. B. Turrell, Physics. Geophysics/Astronomy 260 at 4pm. Coffee at 3:45pm. Call 822-6706.

Institute Of Health Promotion Research Seminar

Health Promotion At The Ministry Of Health In British Columbia. Patricia Wolczuk, PhD, executive director, Office of Health Promotion, Ministry of Health, Victoria. IRC #5 from 4-5:30pm. Call 822-2258.

Policy Planning Seminar

School Of Community And Regional Planning lecture. How Planners Can Access The Political And Legislative System. Jerry Lampert, formerly principal secretary to Premier Vander Zalm. Lasserre 205 from 9:30am-12:30pm. Call 822-3276.

TUESDAY, JAN. 14**Botany Seminar Series**

Systematics And Evolution Of Cultivated Coca. Dr. Fred Ganders, Botany. BioSciences 2000 from 12:30-1:30pm. Call 822-2133

Lectures In Modern Chemistry-Merck Frosst Lecture

Progress In Taxane Synthesis. Dr. Robert A. Holton, Dittmer Laboratory of Chemistry, Florida State U., Tallahassee. Chemistry 250, South Block at 1pm. Call 822-3266.

Statistics Seminar

Model Selection And Accounting For Model Uncertainty In Graphical Models Using Occam's Window. Prof. D. Madigan, U. of Washington. Angus 223 at 4pm. Call 822-4997/2234.

CALENDAR DEADLINES

For events in the period January 27 to February 8, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Tuesday, January 14, to the Community Relations Office, Room 207, 6328 Memorial Rd., Old Administration Building. For more information call 822-3131. The next edition of UBC Reports will be published January 23. Notices exceeding 35 words may be edited. The number of items for each faculty or department will be limited to four per issue.

Medical Genetics Seminar

Experience With Metabolic Diseases In BC. Dr. Derek Applegarth, professor, Paediatrics. IRC #1 from 4:30-5:30pm. Refreshments at 4:15pm. Call 822-5312.

Poetry Reading

A Bird In The Church. Luci Shaw, adjunct professor/writer-in-residence, Regent College. Regent College Main Floor Auditorium from 8-9:30pm. Call 224-3245.

WEDNESDAY, JAN. 15**Orthopaedics Grand Rounds**

Repetitive Stress And Overuse Problems Of The Hand And Wrist. Chair: Dr. Peter T. Gropper. Eye Care Centre Auditorium from 7:30-8:30am. Call 875-4646.

Concert Series

Fraser MacPherson, saxophone; Oliver Gannon, guitar. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

Seminars In Microbiology

Life And Death In The Thymus. Dr. Nicolai Van Oers, Microbiology. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Forestry Seminar

Administration Of Research On The UBC Research Forests. Don Munro; Peter Sanders, Malcolm Knapp Research Forest; Key Day, Alex Fraser Research Forest. MacMillan 166 from 12:30-1:30pm. Call 822-3553.

Physiology Seminar Series

MAP Kinases God's Gift To The Pelech Lab. Dr. S. Pelech, Biomedical Research Centre. IRC #4 at 3pm. Call Dr. A. Buchan at 822-2083.

Geography Colloquium

The Growth And Subsurface Architecture Of The Fraser River Delta. Mike Roberts, professor, Geography, Simon Fraser U. Geography 201 at 3:30pm. Refreshments at 3:25pm. Call 822-2985/2663.

Applied Mathematics Colloquium

Rebuilding The Fraser Sockeye Salmon: Some Case Studies Of Operations Research Techniques Applied To Bio-economic Problems. Dr. David Welch, Pacific Biological Station, Nanaimo. Mathematics 104 at 3:45pm. Call 822-4584.

Neuroscience Discussion Group Seminar

Surprising Distributions Of Neurotrophins And Neurotrophin Receptors Suggest Novel Functions. Dr. Mark A. Bothwell, Physiology/Biophysics, U. of Washington. IRC #3 at 4:30pm. Call Dr. K. Baimbridge at 822-2671.

THURSDAY, JAN. 16**Pharmacology Seminar**

Calcium-sensitive K⁺-channels In Cerebro-vascular Smooth Muscle Cells. Dr. David A. Mathers, Physiology. IRC #5 from 11:30am-12:30pm. Call 822-2575.

CICSR Lecture Series On Computer Graphics

Technological Mindset. Dr. Marilyn Mantei, associate professor, Computer Science/Management Information Science, U. of Toronto. Scarfe 100 from 1-2:30pm. Refreshments at 12:30pm. Call 822-6894.

Statistics Seminar

Improvements To Taguchi's On-Line Control Procedures. Prof. M.S. Srivastava, Statistics, U. of Toronto. Angus 223 at 4pm. Call 822-4997/2234.

Orthopaedics Mini Symposium

Topics In Sports Medicine. Chair: Dr. Doug Clement. Speakers: Dr. Navin Prasad; Steve Paris/Rand Clement; Dr. Jack Taunton; Clyde Smith; Dr. Don McKenzie. Allan McGavin Sports Medicine Centre Seminar Room from 4-6pm. Call 875-4646.

FRIDAY, JAN. 17**Obstetrics/Gynaecology Grand Rounds**

Vulvodynia. Dr. Leslie Schover, Cleveland Clinic. Shaughnessy Hospital Theatre D308 at 8am. Call 875-3108.

Paediatrics Grand Rounds

The Molecular Genetics Of Chronic Granulomatous Disease-From Bedside To The Bench And Back Again. Dr. John Cumutte, Scripps Research Institute. G.F. Strong Auditorium at 9am. Call 875-2118.

Biotechnology Seminar

Oxidative Bleaching Of Mechanical Pulp. S. Rajagopal, graduate student, Chemical Engineering. ChemEngineering 206 at 3:30pm. Call 822-3238.

President's Lecture In English

A Conversation With Gayatri Spivak. Prof. Gayatri Spivak, Literary Theory, U. of Pittsburgh. Asian Centre at 7:30pm. Call 822-3131.

SATURDAY, JAN. 18**Vancouver Institute Lecture Series**

Diabetes: What Causes It? Can We Cure It? David A. Pyke, MD, Registrar, Royal College of Physicians, London, England. Woodward IRC #2. Call 822-3131.

MONDAY, JAN. 20**BC Cancer Research Seminar**

Developments In Health Promotion Research Related To Cancer. Dr. Lawrence Green, director, Institute of Health Promotion Research. BC Cancer Research Centre Lecture Theatre at 12pm. Call 877-6010.

Obstetrics/Gynaecology Research Seminar

Paracrine/Autocrine Regulation In The Corpus Luteum. Dr. David T. Armstrong, professor, Obstetrics/Gynaecology, U. of Western Ontario. Grace Hospital 2N35 from 1-2:30pm. Call 875-2334.

Applied Mathematics Colloquium

Summing Logarithmic Expansions Of Eigenvalue Problems. Dr. Michael Ward, postdoctoral fellow, Courant Institute of Mathematical Sciences, New York U. Mathematics 104 at 3:45pm. Call 822-4584.

Policy Planning Seminar

School of Community And Regional Planning lecture. North America's wildest river: The Tatshenshini Region And The World-Wide Plan To Save It. Ric Careless, executive director of Tatshenshini Wild. Lasserre 205 from 9:30am-12:30pm. Call 822-3276.

TUESDAY, JAN. 21**Health Services/Policy Research Seminar**

Prenatal Care, Socio-economic Status, And Birth Outcomes: Insights From Manitoba's Administrative Databases. Cameron Mustard, ScD, Centre for Health Policy/Evaluation, U. of Manitoba. IRC 414 from 12-1:30pm. Call 822-3130.

Botany Seminar Series

Biosystematics Of Lasthenia Californica. Andree Desrochers, PhD candidate, Botany. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Lectures In Modern Chemistry

TBA. Dr. David Hart, Chemistry, Ohio State U., Columbus. Chemistry 250, South Block at 1pm. Call 822-3266.

Women Students' Office Open House

To plan an 8-week support group for women graduate students, in conjunction with the Graduate Student Centre. Brock Hall, WSO Lounge at 3:30 pm. Call 822-3203.

Medical Genetics Seminar

Polycarb Group Of Drosophila Chromosome Domains. Dr. Hugh Brock, associate professor, Zoology. IRC #1 from 4:30-5:30pm. Refreshments at 4:15pm. Call 822-5312.

WEDNESDAY, JAN. 22**Orthopaedics Grand Rounds**

The Infected Knee Replacement. Dr. Clive P. Duncan. Eye Care Centre Auditorium from 7:30-8:30am. Call 875-4646.

Concert Series

Panormo Guitar Trio. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

Seminars In Microbiology

Process Control For Gene Regulation: Are We Ready Yet? Eric Jarvis, Biotechnology Laboratory/Chemical Engineering. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

THURSDAY, JAN. 23**Pharmacology Seminar**

Excitation-contraction Coupling In Airway Smooth Muscle. Dr. Ian Rogers, Merck Frosst Centre for Therapeutic Research, Kirkland, Quebec. IRC #5 from 11:30am-12:30pm. Call 822-2575.

English, French And Theatre Panel Discussion

Tosca. Brenda Anderson/Susan Bennett, Vancouver Opera; Floyd St. Clair, French. Dorothy Somerset Studio at 12:30pm. Call 822-4060.

Expert Partners Meeting

Avoiding Software Piracy. Jonn Martell, site licence coordinator, Computing Services; Teresa Tenisci, manager, Business/Security, Information Systems Management. Computer Sciences 201 from 12:30-2pm. Call 822-6205.

Concert Series

Leigh Howard Stevens, marimba. Music Recital Hall, Lecture at 7:15pm, Concert at 8pm. Adult \$13, Student/Senior \$7. Call 822-5574.

FRIDAY, JAN. 24**Obstetrics/Gynaecology Grand Rounds**

Modern Management Of Uterine Fibroids. Dr. Yuzpe, U. of Western Ontario. Shaughnessy Hospital Theatre D308. Call 875-3108.

Paediatrics Grand Rounds

Neonatal Quality Outcome. Dr. Susan Albersheim, clinical assistant professor, Haematology. G.F. Strong Auditorium at 9am. Call 875-2118.

Biotechnology Seminar

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

Calendar continued on page 9

UBC Reports is the faculty and staff newspaper of the University of British Columbia. It is published every second Thursday by the UBC Community Relations Office, 6328 Memorial Rd., Vancouver, B.C. V6T 1Z2. Telephone 822-3131. Advertising inquiries: 822-6163. Managing Editor: Steve Crombie. Asst Editor: Paula Martin. Contributors: Ron Burke, Connie Filletti, Abe Hefter, Charles Ker, and Gavin Wilson.

Please
recycle

Project produces compost from industrial waste

By GAVIN WILSON

The Faculty of Agricultural Science is spearheading an innovative new project that will turn fish farming and forest industry waste products into compost for farmers and gardeners.

The \$1-million Fish Waste Utilization Facility will be located at UBC's Oyster River Research Farm, near Campbell River.

It is a joint initiative involving the university, the provincial Ministry of Agriculture and Fisheries, fish processors and the fish farming industry, and the Mt. Washington Community Futures Committee, a group appointed by Employment and Immigration Canada to improve local employment opportunities.

The new facility will combine wastes from fish farms, processing plants and hatcheries with forest industry byproducts such as wood chips and sawdust, to make high quality compost for sale to farmers and gardeners. Compost is a natural soil conditioner that could reduce the need for chemical fertilizers.

Re-zoning for the facility was recently approved by the regional district after local officials and concerned residents were assured that the plant would be entirely self-contained and odor-free. It will be located in the middle of the research farm's 320-hectare property, 700

metres from the nearest residence.

When it is completed, the facility will employ four to five full-time staff, generate secondary jobs and provide long-term economic and environmental benefits to the region.

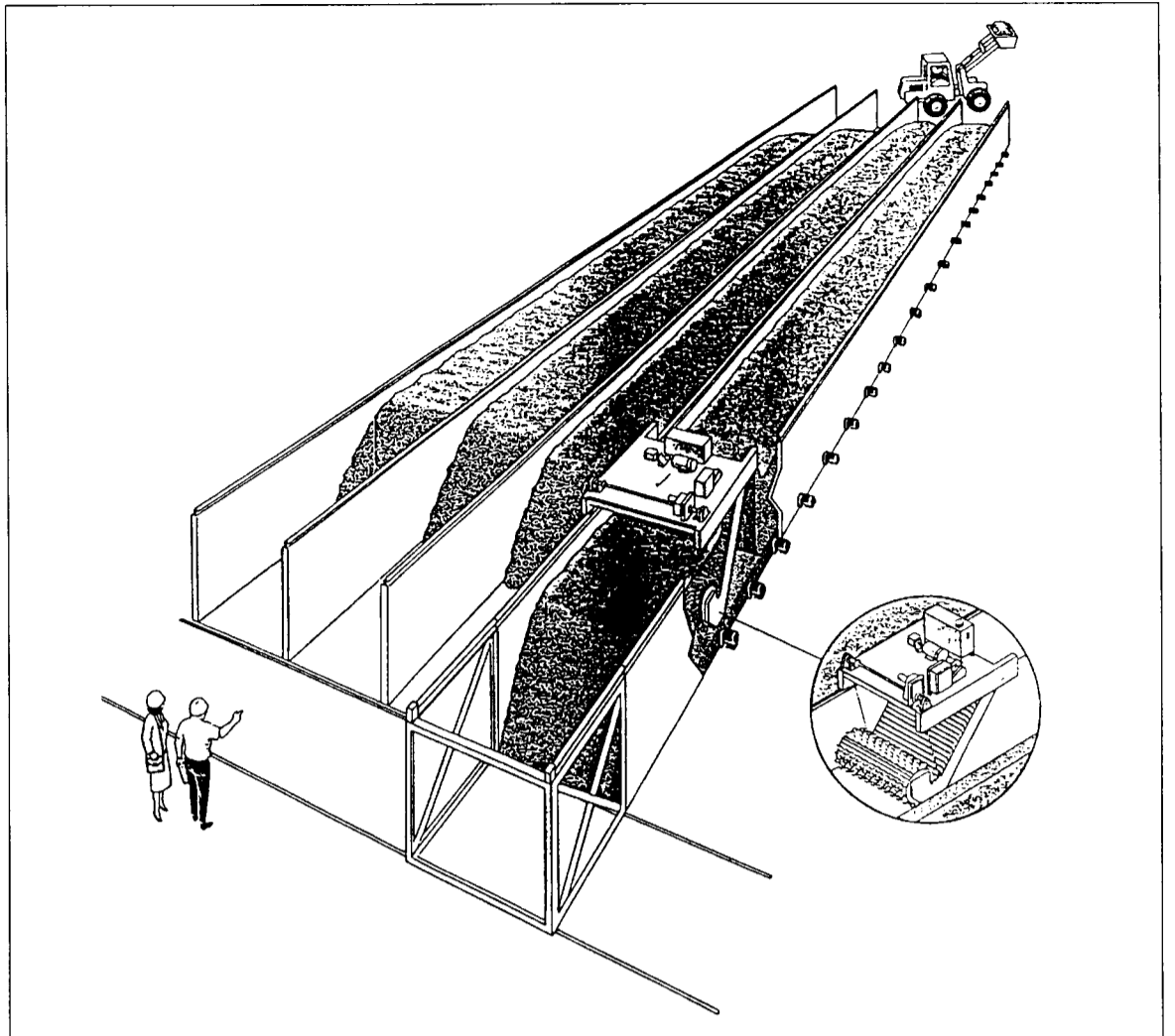
The project could also point the way for other areas of the province. Technology and research produced at Oyster River Farm will be adaptable to other B.C. municipalities and private industries seeking efficient methods of waste management.

The program is not only inexpensive, it is environmentally sound in two ways, said Niels Holbek, director of the UBC Research Farm. First, it recycles waste products generated by industry, and secondly, it produces compost.

The composting project originated with Holbek and members of the Mt. Washington Community Futures Committee.

The provincial government committed \$300,000 over two years from the Sustainable Environment Fund. The Mt. Washington committee then applied to Employment and Immigration Canada and received a grant of \$430,000 for the project. UBC provided \$75,000 in funding and the fish processors and salmon farming industry provided a further \$150,000.

Oyster River is close to the many Island processors and fish farmers who will be using the facility.



The conceptual drawing above shows plans for the fish waste composting facility at UBC's Oyster River research farm near Campbell River. Actual facility will be entirely enclosed.

Postal Rate Notice

Canada Post wishes to remind you that Governor-in-Council (GIC) has recently approved postal rate adjustments for several regulated products, as well as the deregulation of others. These changes were proposed in the package gazetted on June 29, 1991 and were published in the Canada Gazette on November 20, 1991.

As a result of the GIC approval, the basic letter rates will be as follows, effective January 1, 1992: 42 cents for domestic letter mail; 48 cents U.S.A., and 84 cents international.

These new rates and deregulations are consistent with the approved Canada Post Corporate Plan. Funds generated from these fair and reasonable new rates, in conjunction with those from increased volumes and improved efficiencies, will be reinvested in the business to ensure service standards are maintained and, where possible, improved.

The approved deregulation of several products will provide Canada Post with the necessary flexibility to successfully compete in the marketplace and to respond, as required, to rapidly changing customer needs.

If you have any questions, please do not hesitate to contact your Canada Post sales representative.

New building will provide focal point for high-tech computer research



Cutting the ribbon at the site of the new CICSR/Computer Science building are B.C. Telephone Co. Chairman Gordon MacFarlane, Minister of Tourism and Culture Darlene Marzari and UBC President David Strangway.

By GAVIN WILSON

A ribbon-cutting ceremony was held on campus last month at the site of the new \$18-million Centre for Integrated Computer Systems Research (CICSR)/Computer Science building.

The new facility, fully funded by the provincial government, will be shared by CICSR and the Department of Computer Science.

It will house interdisciplinary work in fields such as computer imaging and animation, robotics research for industrial application and the development of artificial intelligence.

Director Jim Varah said CICSR projects involve 60 faculty members in computer science and engineering who work collaboratively with government agencies and industry.

The building will also be the new home of the Department of Computer Science, which has doubled in size in the past four years.

"This project will not only benefit the university community, it will also stimulate growth and collaboration in the province's burgeoning high technology industry," Ken Bagshaw, chair of UBC's Board of Governors, said at

the ceremony.

President David Strangway said the building will house research that will help B.C. move from a resource-based economy to one based on technological advances.

Strangway also noted the interdisciplinary nature of the research, which involves members of at least two faculties.

"I think this is a trend that is happening throughout academia," he said. "Boundaries are breaking down because multiple skills are needed to tackle today's complex problems."

During the ceremony, invited guests were shown computer-generated images of the new building by architects from the firm Chernoff Thompson. The building will be located next to the departments of Mechanical and Electrical Engineering on the northeast corner of Main Mall and Agronomy Road. Completion is expected by the spring of 1993.

A room in the new building will be dedicated to the British Columbia Telephone Co. in recognition of the company's long-term commitment to supporting research and advancement in the fields of telecommunications and high technology.

B.C. Tel Chairman Gordon MacFarlane told guests that his company had undertaken many collaborative efforts with UBC researchers.

Also present was Darlene Marzari, the Point Grey MLA and newly appointed minister of Tourism and Culture, who was making her first official visit to campus as a member of government.

Guests were shown examples of the collaborative research projects currently underway at CICSR.

One demonstration showed a new intelligent operating system for heavy machinery being developed in collaboration with the harvesting research group of MacMillan Bloedel.

In another, Guy Immega, president of Kinetic Sciences Inc., discussed how UBC-developed technology is being used on a Canadian Space Agency project to give robotic manipulators the ability to recognize and handle objects on the proposed space station.



THE UBC LIBRARY IN THE YEAR 2000

Summary of the Draft Strategic Plan

The UBC Library's mission is to provide outstanding access to the universe of recorded knowledge and information.

The University is a place for the adventure of mind and spirit, a place to communicate with great intellects, both past and present. The Library, as an active partner in this adventure, is committed to providing effective access to the information resources and services required by the University community.

Faced with the changing needs of the University, and the opportunities afforded by new information technologies, the Library has developed a strategic plan to address the future. Compiled over the past fourteen months in consultation with all members of the Library staff, the plan is intended to help anticipate needs, develop goals, and propose specific objectives to meet these goals over the next ten years.

Through further consultation with the University administration, faculty, students, staff, and the community, the Library intends to have a strategic plan that will guarantee access to comprehensive collections, a diversity of information provision, and flexibility of service to its many users.

THE ROLE OF THE UBC LIBRARY

The Library provides collections and services to users at the University and beyond, and co-ordinates the information resources of the University's large and varied campus. It is not only a major Canadian research library, but also a provincial and North American resource.

Library Collections

The Library's collections comprise some 8.4 million items including books, serials, microfilm, motion pictures, video and sound recordings, CD-ROM disks, computer tapes, maps, rare books, manuscripts, and other archival material. The collections are housed in over a dozen locations, with the Main Library as the heart of a large, decentralized system. The Asian Library, for instance, houses Canada's largest East Asian collection; the Crane Library has a unique collection of Braille, large print, and recorded sources; and the Woodward Library has the largest biomedical collection in Western Canada.

Through the work and generosity of numerous private donors the Library has acquired important collections, notably in Canadian literature and history, in nineteenth-century British literature, in Asian studies, in medicine, and in musicology. The Library also operates the University Archives which develops standards, and preserves University records of permanent value.

Library Services

Through its information, reference, and processing services, the Library provides access to its diverse holdings. In 1990/91, over 2 million items were lent to borrowers, and 428,000 reference and information questions were

UNIVERSITY OF BRITISH COLUMBIA



December 30, 1991

Dear Members of the University Community:

For the past year, Library staff have worked on a strategic plan for the UBC Library. A summary of the plan is presented in this issue of UBC Reports. The purpose of our strategic planning was to re-evaluate and rethink the shape of the Library, and to formulate desired goals for the next five to ten years.

We hope that you will take the time to review the summary presented below. During the next few months we will be meeting with Deans of Faculties and with Library Advisory Committees to discuss the library of the future, and our strategies for getting there.

Copies of the full version of the draft Strategic Plan are available from the Library. We would be very pleased to hear your comments, questions, or observations about the Strategic Plan.

Sincerely

Ruth J. Patrick, Ph.D.
University Librarian

answered. The Library's primary user community consists of the University's nearly 28,000 students, approximately 1,900 full-time faculty members, and over 3,500 full-time staff, as well as affiliated researchers, and part-time students, faculty, and staff.

The Library's reference and information staff also serve clients in business, industry, and the professions, as well as members of the general public. In addition, information and research materials are provided to the regional community, and to libraries throughout Canada and other parts of the world. In 1990/91, 28,200 items were lent to other libraries, and 14,900 items borrowed on behalf of local users.

The Library's collections and services, built in partnership with the University and the community, reflect the dedication, skill, and foresight of generations of Library staff and users. As the twenty-first century approaches, the Library, in preparing to meet the challenge of the information age, will build on the achievements of the past.

THE NATURE OF THE CHALLENGE

We are facing a social revolution driven by rapid evolutionary changes in computer, communications, and information technologies and by the interaction of those technologies

with our social institutions. This revolution, evolving from the convergence of a constellation of new technologies, involves the entire fabric of society.*

In a society which values access to information, and in a university dedicated to being a world-renowned centre of learning, UBC Library staff, with their expertise in information management, intend to take the lead in defining and shaping a swiftly changing information environment for the benefit of the University, the Library, and its users. The strategic plan will help Library staff achieve this goal.

In drafting the Library's strategic plan, many factors were considered: the University's strategic plan, the unique features of the UBC Library, and external factors likely to influence the University and the Library in the next decade.

The University Context

The University's strategic plan foresees educational diversification and an increasing research orientation. In particular, the University plans to expand its offerings in the study of biotechnology, robotics, computer systems, cultural

* Ronald R. Doctor. Information technologies and social equity: confronting the revolution. *Journal of the American Society for Information Science*, 42(3):217, 1991.

activities, forestry, international business, and the Pacific Rim. New institutes, centres, and chairs have been and will continue to be established, many of them reaching across current disciplinary boundaries. These developments will undoubtedly result in greater demands for Library services and collections.

The UBC Library's Unique Features

Features unique to the UBC Library include its geographical remoteness from other major Canadian universities, which led to the development of its own rich collections; the Library's role as a provincial resource; and the Library's highly decentralized system, a necessary response to the large area covered by the UBC campus. These features shaped the current Library system, and influence its future development.

External Influences

Population Changes

As the composition of the University's population changes, the Library will need to shift some of its resources into providing materials and services required by new faculty, a significantly enlarged graduate student body, inter-disciplinary courses, and new fields of undergraduate and graduate study.

Information Explosion and Rising Costs

Changes in the kind of information required will be matched by changes in its quantity and format. The information explosion is characterized by phenomenal growth in the volume of publishing, both in print and in a plethora of electronic formats. At the same time, escalating costs of materials, particularly journals, have forced most libraries to reduce the number of items they acquire. The Goods and Services Tax is adding to the costs.

Technology

Developments in information, computing, and communications technologies are dramatic: the trend is towards increasingly decentralized computing (with powerful personal computers and workstations rapidly replacing centralized, mainframe computer systems), and towards expanding local, national, and international networks. Scholars at their workstations are now connected to colleagues and databases around the world, and they expect improved access to a rapidly multiplying number and variety of sources.

The Search for Solutions

Changing university programs and priorities, population changes, the information explosion and rapid price increases, coupled with a growing range of available technologies, rising user expectations, and library budget increases that have not kept pace with cost increases, will demand ever more



innovative solutions from the Library. To find such solutions, the UBC Library needs a flexible organization sensitive to changes in user needs, and to changes in the technology and communication in the information. The Library also needs to maintain appropriate collections, services, and facilities, and knowledgeable, efficient staff, able to anticipate and satisfy the diverse information needs of Library users.

Above all, the Library needs clear goals and objectives to guide it when decisions have to be made, or conflicting demands have to be resolved. Library staff are committed to a dynamic and collaborative institution, closely in touch with the needs of its user communities. Optimum use should be made of information and computer technologies. The Library's resources, services, and facilities should be easy to use, integrated, and more closely connected with other libraries, library services, and global information networks.

STRATEGIES FOR THE FUTURE

To succeed in its goal of providing effective, comprehensive access to information, and flexible services, the Library must fulfil its responsibilities

- as a gateway to information
- as a partner in teaching and research
- as a major campus facility
- as an organizational unit

As a gateway to information, the Library will co-ordinate collection development and preservation, provide computer access to databases of all kinds, and act as information consultant to a

variety of users. Specifically, the Library plans to:

- maintain the core collections necessary for the University's teaching and research function as well as for the Library's role as a provincial resource
- review University and community information needs regularly
- work towards integrated computer access to its own resources, and to information resources worldwide
- develop outreach programs to bring library services directly to faculty and students in their offices and laboratories
- develop appropriate preservation policies and programs
- promote resource sharing programs with other libraries

As a partner in teaching and research, the Library will identify the changing needs of University faculty in their teaching and research programs through regular contact and discussions, take the lead in developing a campus-wide information system, and co-operate with other libraries to ensure that UBC has access to the resources of the larger research community. As a partner in teaching and research, the Library intends to:

- consult with faculty, students, and others to identify research priorities, and teaching and learning needs
- offer courses on information access within the academic curriculum
- expand library orientation and instruction programs and facilities
- co-operate with institutions training library personnel
- work with other campus offices to develop campus-wide information standards

- encourage strong Library representation within the University community

As a major campus facility, the Library will provide space and facilities for the use of its collections and computer systems, for study and reflection, and for consulting Library staff. The Library will strive to:

- provide appropriate facilities and equipment for the use of all Library resources, and for the presentation of library instruction programs
- ensure optimum conditions for the housing and preservation of collections in all formats
- provide staff with the facilities and equipment needed to provide excellent services

As an organizational unit, the Library will encourage and support the continued training of its staff, and encourage their participation at all levels in the Library's planning and decision-making processes. The Library will:

- ensure regular and frequent communication among all levels of staff, and involve all staff in the planning and implementation of the Library's goals
- provide job-related training and continuing education opportunities for all staff, particularly in the area of managing change
- create opportunities for job enrichment and career development

MAKING THE FUTURE A REALITY

Of prime importance in implementing the Library's strategic plan will be consultation with, and lobbying of, the University administration to clarify the

Library's mandate, and to ensure adequate funding to support this mandate. Given that the demand for Library services is increasing while financial resources continue to be uncertain, particular attention needs to be paid to its budget if the Library is to carry out its mandate effectively.

The Library will also seek funding for its role as a provincial resource, and will consider levying service charges in appropriate areas. In addition, funding will be sought from private donors and from granting agencies.

Mindful of the Library's role in serving the University, Library staff will consult closely with the University community on teaching needs and research directions, and on the costs of providing specific services and materials. Library programs and services will be promoted actively, and the Library's role as a major information provider will be strengthened.

As a member of the community of research libraries the UBC Library will co-operate with libraries locally, nationally, and internationally to ensure the optimum use of collections and other resources.

An Action Plan

A full version of the Library's draft strategic plan is available from the University Librarian's Office. The strategic plan will provide the basis for the development of a detailed plan of action.

The challenge of the next decade will be to anticipate, and serve successfully, society's rapidly changing information needs, while at the same time supporting the University's function of preserving and extending knowledge.

Listening to customers key for marketing lumber products

By ABE HEFTER

Give the customers what they want.

It's a motto that can help British Columbia establish an internationally competitive position in the production of high-quality wood products, according to Assistant Professor David Cohen of the Faculty of Forestry's Forest Harvesting and Wood Science Department.

"The idea is to make the most with what we have," he said. "That means converting construction-grade lumber into a high-quality, value-added wood product that meets the needs of a specific customer group."

The first step, according to Cohen, is market research: Find out what the customer wants. Research is currently under way to match Japanese market requirements with the appropriate panel processing technology.

"Ensuring high-value offshore markets will encourage the development of appropriate technology and promote the production of value-added wood products in B.C.," said Cohen.

One way B.C. may be able to meet the needs of the Japanese marketplace is through the manufacturing of oriented

strandboard, which is made up of wafer-thin pieces of wood glued together.

Cohen said although this product is readily available in North America, it hasn't measured up to Japanese specifications of size, structure and stability. That's where Cohen and his team of researchers stepped in.

"By simply talking to Japanese customers, we were able to match their needs with the specific technology needed to satisfy their requirements. It's a formula that should improve the international competitive position of the B.C. wood industry."

In another segment of his research, Cohen's team interviewed 70 architects, structural engineers and other people involved in commercial construction to find out how familiar they are with high-value engineered wood products.

"These engineered wood products are designed for specific purposes," said Cohen.

"They offer distinct advantages over traditional construction materials like steel and concrete and we want these people to know it. But again, the key is finding out what the customer's needs are."

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Employment Equity Plan gets go-ahead



By CONNIE FILLETTI

UBC is set to begin immediate implementation of its Employment Equity Plan.

The plan, supported by UBC's 1989 policy on employment equity, ensures a fair and equitable workplace and offers all individuals full opportunity to develop their potential.

As a participant in Employment and Immigration Canada's Federal Contractor's Program, the university was required to develop a viable employment equity plan. The plan and its implementation allow the university to maintain eligibility to bid on government contracts.

Sharon Kahn, director of Employment Equity, said that the program requires UBC to report on its workforce distribution of four designated groups — women, aboriginal people, persons with disabilities and visible minorities.

Among the objectives of UBC's Employment Equity Plan for the designated groups are increased recruiting for faculty and staff positions, and a staff development program.

Kahn stressed that UBC will con-

tinue to hire the best person for the job, but will revamp its hiring practices.

"One approach we'll be taking is to enlarge the candidate pool to ensure that women and minorities, for example, are in the pool before choosing the best person," she explained.

She hopes that faculty and staff who have not yet completed an employment equity census, originally distributed last year, will do so.

"The survey is the primary way for UBC to assess and monitor its employment equity program, and to determine the representation of the four designated groups among workers on campus," Kahn said. "It is important for people to provide information through completing a census."

Anyone wishing more information, can contact the Office of Employment Equity at 822-5339.



Kahn

New department heads appointed for Faculty of Medicine

By CONNIE FILLETTI

The Faculty of Medicine has announced the appointment of three new department heads.

Cardiologist **Dr. John Mancini** has been appointed head of the Medicine Department effective Jan. 1.

Mancini received his medical training at the University of Toronto, where he also completed his internship and residency training. He has been a faculty member at the University of California at San Diego and at the University of Michigan.

Since 1987, Mancini has been chief of the cardiology section of the Veteran's Administration Medical Center in Ann Arbor, Michigan.

He has gained international recognition for his investigative work in myocardial imaging and digital coronary arteriography. In addition, Mancini serves on the editorial boards of the American Journal of Cardiology and the Cardiac Imaging Video Jour-

nal, and is presently the co-editor of the International Journal of Cardiac Imaging.

Dr. John Livesley has been appointed head of the Department of Psychiatry, effective Jan. 1.

Livesley received his psychiatric training at the University of Edinburgh, the Royal Edinburgh Hospital and the Scottish Institute for Human Relations.

He emigrated to Canada in 1979, and joined UBC as a professor of psychiatry and director of the department's Psychotherapy Program in 1987.

For the past two years, Livesley has been director of UBC's Provincial Psychiatric Outreach Program. He also is a member of the editorial board for the Journal of Personality Disorders.

His research interests include the classification of psychiatric disorders and the genetics of personality. He has an active interest in community psychiatry and models for delivering psychiatric services.



Livesley



Mancini

Focus on relevance

Social Work director targets cross-cultural issues

By CHARLES KER

She played the violin at age five and studied classical singing at 13. But by the time she completed New York City's High School of Music and Art, Carole Christensen had opted for a career change.

"My mother was a piano teacher and organist in church, so music was a big part of my young life," said Christensen. "However, it was important for me to relate to people in areas outside of performing."

Today, Christensen, the social worker, brings 25 years of teaching and professional experience to UBC as director of its School of Social Work.

Christensen says the major challenge facing teachers and administrators across Canada will be in making schools of social work more relevant to the ethnic and racial groups they serve.

The conviction to foster cross-cultural understanding among social workers and clients was evident at the site dedication last month for the school's new building.

Joining faculty members and senior administrators at the event were representatives from local First Nations, Buddhist, Hindu, Sikh and Judeo-Christian groups. Each played a part in helping consecrate the ground.

"Our students deal with a wide range of clientele, but are still not trained to be knowledgeable about other cultures," she said. "Many Canadians view themselves as neutral but forget they themselves have a culture. Most of us tend to make fast judgements about those whose values don't conform to our own."

The new director comes to UBC after a 21-year teaching career at McGill University, where she introduced courses in cross-cultural social work and human sexuality. Prior to her appointment in Montreal, she developed and taught family therapy courses at the Danish School of Social Work in Copenhagen.

Since 1989, she has travelled across the country visiting schools of social work as Chair of the national Task Force on Multicultural and Multiracial Issues for the Canadian Association of Schools of Social Work.

In its report, the task force concluded that Canada has yet to create an educational system in social work reflective of the demographic changes that have marked the last quarter century. One of Christensen's prime objectives is "to have a faculty that is responsive to the community as it really is, taking into account the diversity of population groups with unique



Photo by Media Services

Professor Carole Christensen will direct activities in the School of Social Work's new building in the fall. The school has been located in Graham House since 1965.

life experiences."

To strengthen links with the community, she hopes to build a series of research and training centres on and off campus. Pacific Spirit Child and Family Services, a family support clinic, is already operating out of the Social Work Annex and a clinic catering to multicultural groups is planned at the REACH clinic on Commercial Drive in the city's east end.

Christensen herself is principle investigator for a research project called "Linking Schools of Social Work to Cultural Communities." Based out of the REACH clinic, the study is being done in conjunction with the University of Quebec at Montreal and Dalhousie University.

Among Christensen's long-term administrative goals is to rebuild the school's faculty to a full complement of 19.5 from its current 14.5 teaching positions. Last year alone, six faculty members were lost due to early retirement and disability.

While the school has faculty who are recognized leaders in child welfare, social policy, social development, marriage and family therapy, Christensen said more expertise is

needed in the areas of the disabled, Native peoples, visible minorities, women's issues, and the aged.

Eighty-two graduate students and 120 undergraduates are currently enrolled in the school's three programs: a BA degree in Social work focused on gender, race, culture and class issues; an MA specializing in advanced clinical practice and social development studies, and an interdisciplinary PhD.

In September, Christensen led a faculty and staff retreat on the North Shore where they worked on a five-year plan and reviewed administrative procedures.

Christensen said faculty are just now getting feedback on the revised Bachelor's program and the university has "given the go-ahead" to build up the doctoral offering. The school is also reviewing its continuing education program with alumni, faculty and members of the B.C. Association of Social Workers.

Located in Graham House since 1965, the school is scheduled to move into its new building at the corner of West Mall and University Boulevard in the fall.

Dr. David Bevan has been appointed head of the Department of Anaesthesia, effective Jan. 1.

Bevan received his training in anaesthesia at London's Hammersmith Hospital Royal Postgraduate Medical School.

In 1978, he emigrated to Canada and joined the faculty of McGill University's Department of Anaesthesia. He was chair of

the department from 1985 until accepting his new appointment at UBC.

Bevan has been editor-in-chief of the Canadian Journal of



Bevan

Anaesthesia for the last three years, and serves on the editorial board of Anaesthesia and Analgesia. He also is a member of the Board of Trustees of the International Anaesthesia Research Society.

His research interests are principally involved with the pharmacology of the neuromuscular junction.

January 12 –
January 26

Marimba Workshop

Leigh Howard Stevens. Music Recital Hall at 7pm. Call 822-5574.

SATURDAY, JAN. 25

Vancouver Institute Lecture Series



The Archaeology Of The Atomic Bomb. James Delgado, executive director, Vancouver Maritime Museum. Woodward IRC #2 at 8:15pm. Call 822-3131.

NOTICES

UBC Speakers Bureau

Would your group like to know more about topics ranging from Asbestos in the Natural Environment to The Art of Professional Communication? More than 300 topics to choose from. Call 822-6167 (24-hr. ans. machine).

Graduate Student Centre

Live entertainment every Friday in the Fireside Lounge from 8-11pm. Call 822-3203.

Carpool Matching



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

Language Programs Conversational Classes

Develop your conversational ability in French, Spanish, Japanese, Mandarin or Cantonese. Ten-week session begins week of Jan. 28; classes are held on campus Tues. or Thurs. evenings or Sat. mornings. Spanish Immersion Program in Cuemavaca, Mexico, Mar. 2-20. Call 222-5227.

Frederic Wood Theatre Performance

Sarcophagus by Vladimir Gubaryev, directed by Kathleen Weiss. Jan. 15-25 at 8pm. Adults \$10, students/seniors \$7. Preview Wed. 2 for \$10. For reservations call 822-2678.

Dorothy Somerset Studio Performance



Goodnight Desdimona, Goodmorning Juliet by Anne Marie MacDonald, directed by Edel Walsh. Jan. 22-25/Jan. 29-Feb. 1 at 8pm. Admission \$6. For reservations call 822-2678.

Fine Arts Gallery

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

Executive Programmes



Business seminars, Jan. 13-17: Essential Management Skills, \$1,375; Jan 20-22, New Venture Creation, \$1,450; Jan. 23-24, Recruiting/Retaining Excellent Employees, \$895. E.D. MacPhee Executive Conference Centre. Call 822-8400.

Statistical Consulting/Research Laboratory

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

Dentistry Treatment Program

Participants with no natural teeth of their own are needed for a complete denture treatment. Patients accepted will be treated during Feb.-May./92. Call Mon-Fri, 10am-3pm, at 822-5668.

Health Sciences Sponsored Safety Courses

St. John Ambulance Safety Oriented First Aid Courses (SOFA and CPR). SOFA, 8 hrs; CPR, 4.5 hrs. Register Jan. 21-22 from 10:30am-2:30pm at Woodward IRC Mall. Registration fee \$20/course. Classes will be offered to UBC students on Saturdays in February. Call 822-5083.

Smoking Research Project



Volunteers between 35-60 years, regular smoker and generally healthy are needed for research project at Vancouver General Hospital Respiratory Division. Participants will be compensated \$150. Call Merelyn at 421-2523.

Asthma Study

Volunteers with asthma who use steroid inhaler regularly are needed for 6 visits over a 13 week period. Participants will be compensated \$50/visit. Vancouver General Hospital Respiratory Division. Call Merelyn at 421-2523.

High Blood Pressure Clinic



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

Seniors Hypertension Study

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

Drug Research Study

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Heart/Lung Response Study



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

Lung Disease Study

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

Counselling Psychology Research Study

Clerical Workers—explore your stress coping skills. Clerical/secretarial staff needed to participate in a study which involves completion of one questionnaire a month for three months. Call Karen Flood at 822-9199.

Retirement Study



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PMS Research Study

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

Dermatology Acne Study



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

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Memory/Aging Study

Participants between the ages of 35-45 years or 65 and over needed for study examining qualitative changes in memory. Kenny 1220. Call Paul Schmidt in Psychology at 822-2140.

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Disposal of all surplus items. Every Wednesday, 12-3pm. Tent Rentals. Depts. save GST/PST. Task Force Bldg., 2352 Health Sciences Mall. Call 822-2813.

Student Volunteers

Find an interesting and challenging volunteer job with Volunteer Connections, UBC Placement Services, Brock 307. Call 822-9268.

Volunteer Fair



20 to 25 volunteer organizations from the Lower Mainland will be participating to promote volunteerism Jan. 16-17 from 9am-3:30pm at the SUB Main Concourse. Call 822-9268.

Narcotics Anonymous Meetings

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

Fitness Appraisal

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

Faculty/Staff Badminton Club



Fridays from 6:30-9:30pm in Gym A of the Robert Osborne Centre. Cost is \$15 plus library card. Call Bernard at 822-6809 or 731-9966.

Botanical Garden

Open from 10am-5pm daily. Free admission. Call 822-4208.

Nitobe Garden



Open Mon-Fri from 10am-3pm. Closed week-ends. Free admission. Call 822-6038.

NOTICE

CALENDAR POLICY

Due to the popularity of the Calendar, the number of submissions is constantly increasing. Because of space limitations, it is not always possible to include every item. In order to be as fair as possible, for future issues, the number of items for each faculty/dept. is limited to four per issue.

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First for Canadian university**Engineers construct highly advanced laser**

By GAVIN WILSON

UBC researchers have achieved a Canadian university first by fabricating, entirely in-house, a quantum well laser using a gallium arsenide-based technology.

The laser was built by researchers in the departments of Electrical Engineering and Physics.

It was designed and constructed by a group led by Nicolas Jaeger, an assistant professor in Electrical Engineering, who is the director of the Centre for Advanced Technology in Microelectronics, and by a group led by Tom Tiedje, a professor with a joint appointment in Physics and Electrical Engineering.

The quantum well laser is a new generation of extremely-efficient, high-performance lasers which have the potential for a revolutionary new range of applications.

"This is akin to a university making its first transistor," said Jaeger.

Of particular interest to the sponsors of the quantum well laser work, the Canadian Cable Labs Fund and Rogers Cable TV, is their potential to reduce the cost and increase the number of channels in cable television.

The lasers were constructed by Tomislav



A microscopic view of quantum well laser, designed and manufactured at UBC. Tip of wire contact, lower centre of image on left, is shown in even greater magnification in right image. Oblong gallium arsenide chip, one quarter of a millimetre long, is surrounded and coated by rough-surfaced solder. A wire contact is firmly planted on its back. Lasing surface is on underside of chip.

Simecek, a visiting scientist from the Czechoslovakian Institute of Physics, along with David Hui, a post-doctoral fellow, and Hiroshi Kato, a research engineer in Electrical Engineering.

Quantum well technology has developed in just the past five years as an outgrowth of research on atomically-engineering materials, in which the composition of solids can be programmed a single atomic layer at a time.

Crucial to the manufacture of the laser is a technique known as molecular beam epitaxy (MBE), which allows the creation of extremely pure, well-defined layers of

semi-conductors, as thin as a single atomic layer.

UBC was the first Canadian university to own such a machine when it was acquired about four years ago by Tiedje and Lawrence Young, a professor emeritus of Electrical Engineering. The operation of the MBE facility is supported by the Natural Sciences and Engineering Research Council and the Science Council of B.C.

The MBE machine is operated by Christian Lavoie, Shane Johnson and Tony van Buuren, who are graduate students in Physics, and by Jim Mackenzie, a research engineer in the Physics Department.

It produces single crystal films of semi-conductors using layers of individual atoms. In ultra-high vacuum the atoms form a beam and when the atoms hit the surface they stick according to a lattice structure.

The manufacture of the laser begins with a piece of single-crystal gallium arsenide, a semi-conductor material, as a base. The MBE machine then applies to this base layers of gallium arsenide and gallium aluminum arsenide, with trace amounts of dopants, to make the quantum well laser structure.

"It is a highly precise process that takes a great deal of time to learn how to do," said Jaeger.

Jaeger said the quantum well laser will be one of the key elements in the future of opto-electronics.

Theoretically, for example, quantum well lasers could pave the way for optical computer systems, which would be extremely fast and have a completely different architecture from today's computers.

Quantum well lasers should also have a large impact on the technology used in the telecommunications industry, Jaeger said.

Library introduces program on use of CD-ROM system

By ABE HEFTER

UBC's Library will launch an extensive new teaching program for students to learn how to use its on-line files and CD-ROM databases.

From Jan. 13 to March 27, students can receive training on the Library's on-line catalogue in the Faculty of Arts Computer Terminal Room, which is located on the lower floor of the Sedgewick Library. These drop-in sessions will be held six times a week and will be geared to both introductory and experienced users.

The CD-ROM tutorials will be held in the Curriculum Laboratory, Humanities and Social Sciences Division of the Main Library, and Sedgewick and Woodward libraries. They will cover many subjects, including language and literature, biological and aquatic sciences, current affairs and education. Students interested should check individual locations for times and dates.

"A Teaching and Learning Enhancement Fund grant has enabled the Library to offer this

instruction program to meet increasing student interest in do-it-yourself computer searching," said Julie Stevens, Undergraduate Library Services coordinator.

A UBC Library survey, conducted last March, revealed that one-third of undergraduate respondents said they wanted more information on how to use CD-ROM databases. Sixty-five per cent of undergraduates surveyed said they were already using the on-line catalogue.

"We're striving for a 100 per cent user rate," said Stevens. "We want library users to be aware of the extent of computerized searching for information available to them."

The Library has hired graduate students from the School of Library, Archival and Information Studies to help reference librarians teach students how to search UBCLIB. The CD-ROM tutorial sessions will be taught by the graduate students.

For more information, please call Julie Stevens, Undergraduate Library Services coordinator, at 822-3098.

Crane Library records government documents for visually impaired

By CONNIE FILLETTI

UBC's Crane Library and Resource Centre is spearheading an effort to make more provincial government documents accessible to people who cannot read because of disabilities.

"We hope to encourage the province to develop a consistent policy on providing government documents in an alternate format," said Paul Thiele, head of Crane Library.

The library has recently completed recording Closer to Home, the report of B.C.'s Royal Commission on Health Care and Costs.

The Crane Library was founded at UBC as a reading room for the blind and visually impaired in 1968. It became a branch of the university's library system a year later. Currently, it serves a core group of 55 students, faculty and staff on campus, and approximately 5,000 people across the province through its inter-library loan and exchange programs.

"We selected Closer to Home because we felt there were a lot of people with disabilities who have very particular concerns about health issues which are addressed in the report," Thiele said.

The library was not officially asked to record the material by the commission or the B.C. gov-

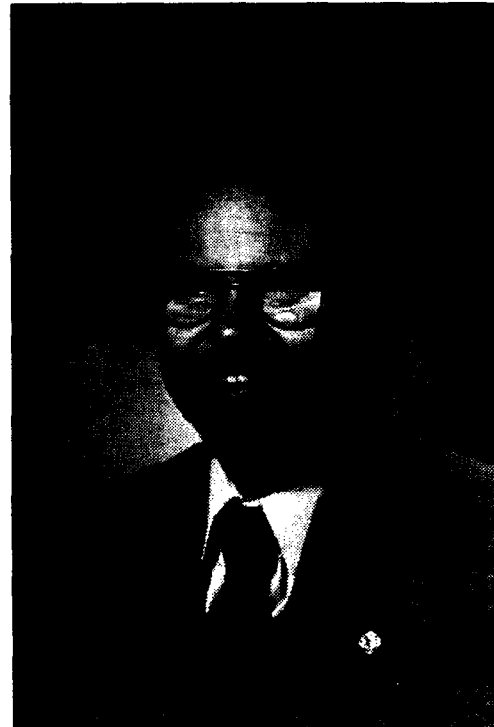
ernment, but it was an opportunity to join several disability organizations in urging the provincial government to adopt a policy of reasonable access to government documents and reports for non-print readers, he added.

Although several government documents are in the library's collection, most were specifically commissioned by provincial government agencies on a fee-for-service basis, or were requested by students for use in courses, Thiele explained.

"This was part of our effort to make provincial government documents more accessible to persons who cannot read due to blindness, visual impairment, reading disabilities or physical disabilities," he said.

The Royal Commission's 40-page summary and 220-page report took 10 of the library's trained staff and volunteer narrators three weeks to complete.

The report is presented in 12



Paul Thiele

tapes totalling 20 hours of tape. A table of contents and vocal instructions on how to find specific sections of the document is included. The summary is available on one 90-minute cassette.

Both may be borrowed from Crane's inter-library loan system, or purchased for the replacement cost of the tape.

People

Ellis wins Governor General's Award

Sarah Ellis, a UBC graduate and sessional instructor in the School of Library, Archival and Information Studies, has received the 1991 Governor General's Award for children's literature.

Ellis, who has been with the school since 1981, was recognized for her third book, *Pick-Up Sticks*.

Elsewhere on campus, **Daniel David Moses**, an MFA graduate and creative writing teacher, was a finalist in the drama category for his play *Coyote City*. The drama winner, Joan MacLeod, is a graduate of UBC's Department of Creative Writing as is Don Dickinson, a finalist in the fiction category.

English.

Jack Kelso, senior instructor, School of Physical Education and Recreation.

Stephen Miller and **Leslie Tucker**, students, Law.

Dan Perlman, director, School of Family and Nutritional Sciences.

Joanne Ricci, senior instructor, School of Nursing.

Gail Robertson, administrative officer, Commerce and Business Administration.

Irene Rodway, administrator, Chemistry.

Marguerite Yee, senior instructor, Pharmaceutical Sciences.

David Hill, assistant professor of Pharmacy Administration, and chair of the Division of Clinical Pharmacy, has been appointed to the Health Technology Grant Review Committee by the Science Council of B.C.

The committee is charged with reviewing applied research and development proposals in health technology areas as part of the Technology B.C. Grant Program.

Hill received his B.Sc. (Pharm.), M.Sc. and MBA from UBC and joined the Faculty of Pharmaceutical Sciences in 1988. He served as director of pharmacy services at the UBC site of University Hospital between 1980 and 1988.

He is on the board of the Pharmacy Examining Board of Canada and serves as chair of the legislation committee of the College of Pharmacists of B.C.

The Science Council of B.C. identifies and promotes opportunities for the sustainable economic development of the province, by drawing on the science and technology community for creative applications of innovative science and technology.

from the University of Texas at Austin. She is also a certified public accountant.

For the past seven years, Trifonidis has served as general manager of the Vancouver Opera, where she took the company from a loss to a profit, while offering continually improving programs each season. Recently, she left Vancouver to lecture in accounting at the University of Texas.

Trifonidis brings extensive experience in university-based degree and professional programs. While at the Vancouver Opera, she was an active user of such programs. She has also taught for the Diploma Division and is noted for her creative and innovative approaches to teaching.

Robert Eberle, an instructor in the Department of Theatre and Film and production manager of the Frederic Wood Theatre, has been elected president of the B.C. section of the Canadian Institute for Theatre Technology (CITT).

The fledgling institute is an organization of managers, designers, technicians and educators in the field of theatre production. Headquartered at the University of Calgary, CITT members are connected by the world's first computer network designed exclusively for professionals in theatre production.

UBC's Department of Theatre and Film will be the initial Vancouver base for the B.C. section.

Leo Paquin, a 21-year-old UBC philosophy student, is among 10 Canadian winners of the 1991 Rhodes Scholarships.

A former member of the Canadians for the Ethical Treatment of Food Animals, Paquin has formed his own campus group called UBC Students for the Ethical Treatment of Animals.

Paquin, in his final year of BA in Honours Philosophy, has been a member B.C.'s champion lacrosse team for the past two years. He hopes to play field lacrosse on the Oxford University team.

The scholarship pays all expenses for travel to and study at Oxford University for two years, with an option for a third year.

Mechanical Engineering Professor **Vinod Modi** has been awarded the Dirk Brouwer Award by the American Astronautical Society.

The award is the most prestigious offered by the society, and Modi is the first Canadian to receive it in its 30-year history.



Modi

Modi's research in aerospace engineering focuses on the dynamics and control of large space structures, which includes the next generation of communications satellites, space shuttle-based experiments, the proposed space station Freedom and Mobile Remote Manipulator Systems.

Modi has also been invited by the International Society of Theoretical and Applied Mechanics to deliver the Sir G.I. Taylor Memorial Lecture this month.

Physical Education and Recreation Associate Professor **Anne Tilley** has been elected regional representative for North America on the board of directors of the International Federation of Adapted Physical Activity.

The main objectives of federation members are to conduct research in the field of adapted physical activity and to seek ways of improving services in physical activity, sport and recreation for people with disabilities.

Tilley's election came during the international symposium on adapted physical activity, held in Miami, Florida, Nov. 17-21.

Ross Tsuyuki and **Christy Silvius**, assistant professors in the Division of Clinical Pharmacy, have been elected to executive positions with the B.C. branch of the Canadian Society of Hospital Pharmacists (CSHP).

Tsuyuki was elected to a second one-year term as president of the branch. Silvius will serve as secretary to the executive council.

Membership in the CSHP currently stands at approximately 2,000 hospital pharmacists nationwide. The society was formed in 1951 to provide leadership in all aspects of pharmacy practice in hospitals and related health care settings.

The society promotes the provision of patient-focused pharmacy services, sets standards of pharmacy practise for hospitals, provides continuing training, education and competence assurance programs, and encourages and supports pharmacy-related research in B.C. hospitals.

Judith Johnston, director of Audiology and Speech Sciences, has been appointed to the Sensory Disorders and Language Study Section of the National Institutes of Health (NIH).



Johnston

The NIH, based in Bethesda, Md., is the public health service of the U.S. Department of Health and Human Services.

Johnston will review grant applications submitted to the NIH and make recommendations on the applications to the appropriate NIH national advisory council or board.

Johnston is a developmental psychologist and speech-language pathologist with expertise in children's language learning.

Her four-year appointment is effective immediately and runs until June, 1995.

Beverly Trifonidis joined the Faculty of Commerce and Business Administration Jan. 1 as associate dean, Professional Programs.

Trifonidis holds a Bachelor of Business Administration and a Master of Public Accounting

The Alma Mater Society has bestowed its annual Just Desserts awards on 10 faculty, staff and students. Winners are selected by students in recognition of outstanding contributions of time and support to students.

This year's winners are:
Susan Cole Marshall, student services co-ordinator, School of Social Work.
Dennis Danielson, associate profes-

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Classified advertising can be purchased from Community Relations. Phone 822-6163. Ads placed by faculty, staff and students cost \$12.84 for 7 lines/issue (\$1.81 for each additional word). Off-campus advertisers are charged \$14.98 for 7 lines/issue (\$1.86 for each additional word). (All prices include G.S.T.) Tuesday, January 14 at noon is the deadline for the next issue of UBC Reports which appears on Thursday, January 23. Deadline for the following edition on February 6 is noon Tuesday, January 28. All ads must be paid in advance in cash, by cheque or internal requisition.

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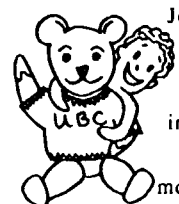
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Long-term care facilities examined**Dental care for elderly neglected: study**By **CONNIE FILLETTI**

The dental health of senior citizens confined to long-term care facilities is being neglected, recent studies by a team of UBC researchers conclude.

"These seniors are only getting help when they say they need it, and it's usually an emergency situation by then," said Dr. Michael MacEntee, a professor of Clinical Dental Sciences in the Faculty of Dentistry and principal investigator of the studies.

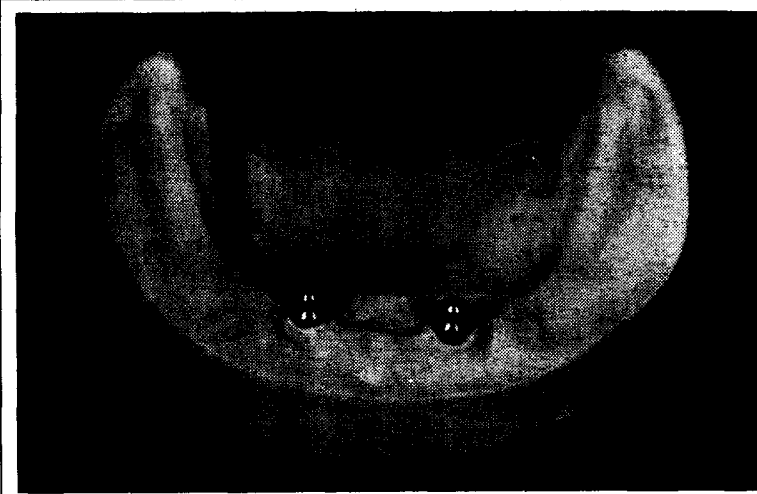
"There are more tooth decay and oral hygiene problems due to neglect in persons living in long-term care facilities," he added.

A major focus for the studies was the availability of dentists in almost half of Vancouver's 92 long-term care facilities.

"We found that they do not have an environment for dentists to work in, except for emergencies," MacEntee said. "Access to preventive oral health services is a real problem in these places."

About 10 per cent of Canadians are over 65 years of age and estimates indicate that the percentage will double over the next 20 years. Over 90 per cent of the nation's elderly live independently, either alone or with others.

MacEntee and co-investigators in Dentistry, Social Work, Statistics and Health Care and Epidemiology interviewed over a thousand elderly people for the studies, which were con-



Two implants, left, placed in a jaw to support and retain a complete denture, and the undersurface of a denture made to attach to the implants.

ducted between 1985 and 1990.

Participants included seniors 65 years of age and over, in frail health, and living in long-term care facilities, and seniors 70 years of age and over, in relatively good health and living independently.

About one-third of the total number of those studied wore complete dentures. The remaining two-thirds had some natural teeth and a denture. Each person was examined for cavities and denture problems.

He said that preventive treatment with fluoride, which strengthens teeth, could help diminish the rate of cavities in the elderly.

The recurrent problem for seniors with dentures was a loose fit, the studies showed.

"Shrinkage or loss of jaw bone, a common occurrence in the elderly, results in loose or floating dentures," MacEntee explained. "As patients age or become infirm, they also experience trouble controlling their dentures. It's a big problem, especially with the lower denture."

Another high risk group includes seniors who take multiple medications.

MacEntee said that medications affect the saliva's ability to act as a buffer against the pressure and irritation of a denture and against the acids

that produce tooth decay.

He believes that patient education, enhanced awareness of oral health issues among health care professionals, and greater access to dentists would help combat neglect of dental problems in the elderly.

MacEntee is hoping to conduct controlled studies of seniors receiving fluoride treatments in the prevention of tooth decay, and is currently seeking elderly patients for his latest study involving the effectiveness of dental implants in controlling the floating denture problem.

The study will include a survey of patients who have received dental

implants, many at UBC's implant clinic, over the past five years.

"What we want to know is what has happened to these people since dentures were placed on the implants," MacEntee said. "Are the implants supporting and retaining their dentures as planned?"

UBC has the only dental faculty in Canada that teaches dental students how to place dentures on implants.

Elderly patients with no remaining natural teeth who currently require complete upper and lower dentures may call 822-5668 or 822-2112 for more information about the implant treatment.

Replanted cedar trees starving from lack of proper nutrientsBy **ABE HEFTER**

The chemical properties that make cedar so durable may be inhibiting the tree's regenerating abilities.

That's just one scenario UBC for-

estry researchers are investigating as part of the Salal/Cedar/Hemlock Integrated Research Project (SCHIRP) into cedar nutrition.

"Five years after planting, trees on

cutover cedar-hemlock forests on Vancouver Island are yellowing, an indication of a nutrition problem," said project co-ordinator Cindy Prescott of the Department of Forest Sciences.

"Poor decomposition would appear to be one reason why regenerating forests on cedar cutovers are having a difficult time flourishing."

Prescott said cedar, used in the manufacturing of shakes and shingles, is a strange tree. It doesn't decompose very well because of its chemical composition and, as a result, nutrients aren't readily released.

SCHIRP researchers have discovered several other factors which may be contributing to cedar's nutrient deficiency problem. One of them involves salal, a shrub which is common to cedar forests.

"Salal has an extensive root system and causes great problems for regenerating trees by competing for nutrients," said Prescott. "There just aren't enough nutrients to go around."

Fertilization trials have revealed that cutover cedar stands are nitrogen deficient. The application of Vancouver city sewage sludge and inorganic fertilizers has resulted in significant growth response.

Prescott said testing is currently under way to make sure the application of sewage sludge is environmentally safe.

"There are other questions that must also be answered," said Prescott. "These relate to the rate and fre-

Thunderbirds go undefeated to win Diachem Classic

The UBC Thunderbirds enter the second half of the university hockey season after winning the Diachem Classic in convincing style.

The host T-Birds captured the invitational tournament, beating the University of Manitoba 9-6 in the championship game.

The round-robin tournament, which ran from Dec. 28-30th, included teams from York University and the defending national champions, the University of Quebec at Trois-Rivieres.

Despite going into the Diachem Classic with a regular-season record of four wins, nine losses and one tie, the T-Birds emerged from the tournament undefeated against some of the toughest competition in the land, which bodes well for the second half of the season, according to UBC coach Mike Coflin.

"Winning this tournament against this type of competition means an awful lot to our club," said Coflin. "We know we have the ability to put together a total team effort in terms of all phases of the game and believe a playoff spot is realistically within our grasp."

Coflin said the one aspect of the T-Birds game that came to the forefront during the tournament was the power play.

"Up front, Grant Delcourt, Dean Richards and Rob Gagno exerted a tremendous amount of pressure on the opposing defence. They are three reasons why we managed to score five power play goals in the championship game," he said.

quency of fertilization necessary to maintain a healthy growth rate."

One of the problems with fertilization is that only 20 per cent of the nutrients are taken up by the trees. The fate of the other 80 per cent is another question SCHIRP researchers are attempting to answer, by tracking nitro-

gen in the soil through the use of non-radioactive isotopes.

"Monitoring the regeneration of these cedar forests will require years of research," said Prescott. "But it's crucial if we are going to effectively manage forests like these which exist all the way up the coast of British Columbia."

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