

# UBC Reports



The University of British Columbia  
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November 2, 1989

# UBC selected to head 3 Centres of Excellence

By JO MOSS

UBC will head three national Centres of Excellence for scientific research supported by 55.7-million in federal funds.

In all, 14 Centres of Excellence received \$240-million in federal funds, and UBC is participating in 12 of the 14.

UBC President David Strangway says he is delighted with the Ministry of State for Science and Technology's decision to fund so many of UBC's proposals.

"Ottawa has shown its recognition of this university as an outstanding centre for research, and we look forward to participating in these networks with our colleagues across Canada," Strangway said.

"We are thrilled. The results reflect the excellence at UBC," said Robert Miller, Vice-President of Research. "It demonstrates our linkage with the research community in the rest of the country and the esteem in which we're held across the nation. It also demonstrates our desire to collaborate with outstanding research whenever possible."

The three centres headed by UBC researchers are:

Dr. Michael Hayden, a professor in the De-



Photo by Media Services

Michael Smith, Dr. Michael Hayden and Robert Hancock will head three Centres of Excellence for scientific research at UBC, the federal government announced last month.

partment of Medical Genetics and the Department of Medicine UBC site, and a team of researchers have received \$17.5-million for

their proposed centre called the Genetic Basis of Human Disease: Innovations for Health Care. Twenty-two scientists from eight universities

and hospitals are combining their expertise with five pharmaceutical and biotechnology companies to study the genes that directly cause or predispose people to disease.

The researchers' goal is to determine the biological function of each relevant gene and discover how its mutation causes disease. A better understanding of this area will eventually enable scientists to detect carriers of most genetic diseases and devise a treatment or cure for some diseases.

"We hope this innovative research will lead to a new industry in Canada related to the diagnosis, prevention and treatment of genetic disease," Hayden said.

Robert Hancock, professor in the Department of Microbiology, received \$18.2-million to boost a network of 50 researchers in nine different centres and 10 companies with related interests in disease-causing bacteria. Bacterial diseases affect all facets of Canadian society and are a major problem worldwide.

"The role of bacterial diseases in our society can't be underestimated," Hancock said. "We now have the ability to take our research from the lab to all the way to the industrial level."

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## Klinka, Hardy named gold medal winners

UBC Forest Ecologist Karel Klinka and Physicist Walter Hardy are two of this year's B.C. Science Council's gold medal winners.

The province's highest form of recognition for outstanding achievements in science and engineering, the Science Council's awards are given annually in three of four categories: Applied Science,

Natural Sciences, Industrial Innovation and Health Sciences.

James McFarlane, president of International Submarine Engineering, a Port Coquitlam company which designs and manufactures submersibles, is the recipient of the third medal.

Born and educated in Vancouver, Hardy earned both his bachelor degree and doctorate at UBC.

After post-doctoral work in France and a five-year stint at North American Rockwell in California, he returned to UBC in 1971 and joined the Physics Department, where he was appointed full professor in 1976.

Hardy's research has included the study of solid molecular hydrogen, magnetic resonance, Raman scattering, microwave absorption in hydrogen and related systems and spin-polarized atomic hydrogen at temperatures close to absolute zero.

In 1986, in what he considers one of his greatest achievements, Hardy and his

associates developed the cold hydrogen maser, possibly the world's most accurate clock.

In the past two years, Hardy has turned some of his attention to the realm of high critical temperature superconductors. With his colleagues and students he has become an early leader in the production and testing of these materials.

Earlier honors include both the Canadian Association of Physicists' Herzberg Medal, the Steacie Prize from the Natural Sciences and Engineering Research Council, the Jacob Biele Faculty Research Prize and the Killam Research Prize.

In 1980, he became one of the youngest ever elected a Fellow of the Royal Society of Canada.

Karel Klinka built a biogeoclimatic classification system for B.C.'s forests—a practical guide and tool by which foresters can make informed decisions about choos-

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Hardy



Klinka

## Baird to head royal commission

BY CONNIE FILLETTI

Prime Minister Brian Mulroney has appointed Dr. Patricia Baird, professor of Medical Genetics at UBC, chairman of a Royal Commission on Reproductive Technologies.

The commission will inquire into, and report on current as well as potential medical and scientific developments related to new reproductive technologies. It will also consider the social, ethical, health, research, legal and economic implications of these technologies.

The commission will also recommend policies and safeguards to be applied to scientific advances in the field of reproductive technologies.

The commission is charged with examining a wide range of issues including:

The implications of new reproductive technologies for women's reproductive health and well being.

The causes, treatment and prevention of male and female infertility.

Reversals of sterilization procedures, artificial insemination, in vitro fertilization, embryo transfers, prenatal screening and diagnostic techniques, genetic manipulation and therapeutic interven-

tions to correct genetic anomalies, sex selection techniques, embryo experimentation and fetal tissue transplants.

Social and legal arrangements such as surrogate childbearing, judicial interventions during gestation and birth and ownership of ova, sperm, embryos and fetal tissue.

The status and rights of people using or contributing to reproductive services such as access to procedures, rights to parenthood, informed consent, status of donors and confidentiality and the impact of these services on all concerned parties, particularly the children.

The economic consequences of these technologies including the commercial marketing of ova, sperm, and embryos, the application of patent law and the funding of research and procedures such as infertility treat-

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Baird

### INSIDE

**WOMEN'S STUDIES:** There has been a surge of interest in Women's Studies at UBC, says Valerie Raoul. Page 3.

**VIOLENCE POSSIBLE:** The stress of divorce could lead some men to violent acts says author and professor Dr. Michael Myers. Page 7.

**QUOTED:** "Universities are a luxury we cannot afford to do without." Journalist and former professor Walter Stewart. Page 8.

# United Way Drive extended 3 weeks

BY CONNIE FILLETTI

Organizers of this year's United Way employee campaign have extended the fundraising drive by three weeks hoping to increase the university's participation in the fundraising drive.

Only 723 donors, out of a potential 6,051 on campus have contributed to date.

John McNeill, dean of Pharmaceutical Sciences and chairman of the campus campaign, expressed his concern about the slow progress being made.

"We realize that there are many demands on everyone's charitable giving," said McNeill. "But we are concerned that the United Way, which is such a worthy cause and supports dozens of charitable organizations, may not be able to meet its goals because we can't meet ours. We're counting on UBC's support."

The goal set for this year's campaign is \$195,000, up 20 per cent from



last year. Slightly more than half of the amount has been raised.

Student participation in what has traditionally been a university employees campaign is a "tremendous boost" to the drive, said McNeill.

The Forestry Undergraduate Society raised \$219.65 in a campus-wide apple sale recently. Two annual student events — an Oktoberfest organized by the Commerce Graduate Students Society and Pharmacy's Norm Zach Run — will donate their proceeds to the UBC United Way campaign.

"To everyone who has contributed to the campus campaign so far in any way, whether as a donor, or as a volunteer thank you for your generous support," said McNeill.

An Early Bird draw held on Oct. 17 featured prizes donated by UBC Food Services, Continuing Education, the office of the Vice-President, Academic and Provost and UBC Media Services. A final draw is slated for Nov. 22.

"We wish to thank the many UBC services and departments that offered such wonderful prizes, as well as acknowledge the generosity of many more off-campus donors," said McNeill.

American Express, Xerox, P. Lawson Travel, En Route, Canada Post, Cassidy Yacht Charters, Richmond's Gateway Theatre and author Sandra Wong are just a few of the prize donors.

University personnel who have not contributed can watch for a second pledge card sent out on Oct. 31.

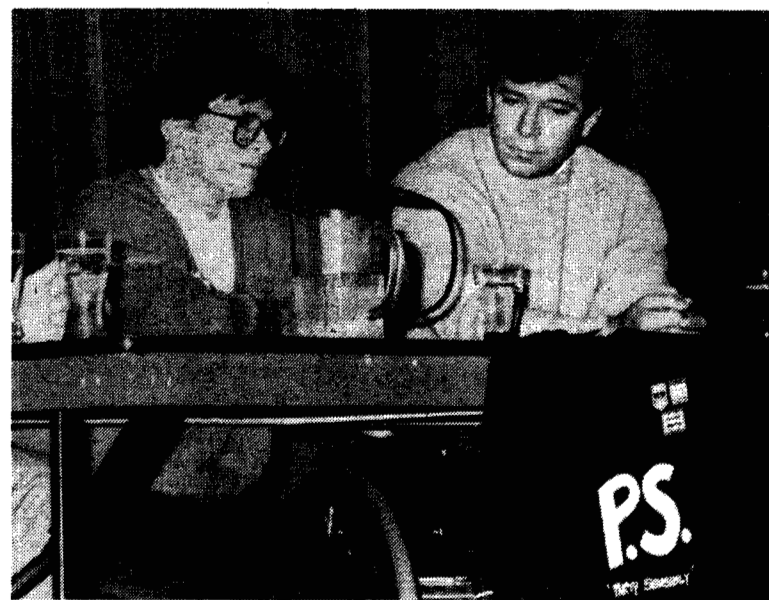


Photo by Media Services  
Linda Filsinger, director of the B.C. Sports Medicine Council and Rick Hansen, consultant to the president on disabled issues, speak at a UBC Alcohol and Drug Education Week forum.

## Athletes are using drugs more often, expert tells forum

By GAVIN WILSON

Heightened public awareness of anabolic steroids due to the Ben Johnson scandal and the Dubin inquiry has led to an increase in drug use by both competitive and recreational athletes, said Linda Filsinger, director of the B.C. Sports Medicine Council.

Speaking at a forum during Alcohol and Drug Education Week at UBC, Filsinger said many of the calls to her UBC drug hotline are from young people asking what types of steroids are available and where they can be obtained.

There are an estimated 10,000 steroid users in the Vancouver area, she said, including almost seven per cent of high school seniors, the majority of whom are not involved in organized sports. The underlying reason for steroid use is often dissatisfaction with body image, she added.

"They're just interested in looking better at the beach in the summer. They're not concerned with side affects."

But a difficulty faced by counsellors who warn against steroid use is the uncertainty of these side effects. Although steroids are linked to increased risk of cancer and liver tumors, changes in cholesterol levels, acne, water retention, mood swings and increased aggression, it is impossible to predict how an individual will be affected.

The forum on drug and alcohol use, held at SUB Auditorium, was part of an awareness campaign organized by the AMS and the Outreach Program of the Student Health Service.

Also speaking at the forum was wheelchair athlete Rick Hansen, who is a special advisor to President David Strangway on disabled issues.

He recalled that the traffic accident that severed his spinal cord involved a drinking driver.

"I never in my life believed it could happen to me," he said.

Depressed and embittered, Hansen admitted he turned to alcohol as "an easy way out," partying with friends instead of dealing with the real issues in his life.

But he soon realized that "to be happy, you don't need a magic button."

Referring to steroid use, Hansen blamed society for perpetuating ideal body images that are almost impossible for the average person to match.

Instead of feeling inadequate, people should do the best they can with the

abilities they have, he said, sounding a familiar refrain from his Man in Motion world tour.

Another forum speaker was student Clint Scollen, who has battled back from debilitating injuries suffered in a drinking driving accident in 1982.

The accident killed a friend and sent Scollen hurtling 130 feet through the air, fracturing his skull and breaking his right shoulder and knee. In a coma for five weeks, he spent another year recovering in hospital.

At the time of the accident Scollen had just completed two years of study in Applied Science at UBC. He is now applying for admission to the Real Estate Division of the Faculty of Commerce and Business Administration.

"We figured we were indestructible. It took only five seconds to change that," he said.

## Ottawa aids top scholars at UBC

A federal government program to encourage more students to become scientists and engineers is helping 147 of Canada's top high school scholars study at UBC this year.

With financial support from the Ministry of State, Science and Technology, the students are pursuing degrees in the natural sciences and engineering.

A total of 2,500 Canada Scholars were selected for the Canada Scholarships Program on the basis of academic excellence. They are eligible for \$2,000 in support for each year of their undergraduate academic program, up to a total of \$8,000, provided they maintain a first-class standing. At least half of the awards go to academically outstanding women to encourage greater participation by women in scientific and engineering fields, particularly those where female representation has been lowest.

Sixteen of this year's winners come from other provinces across Canada, including Newfoundland, and the Yukon. The remaining are from B.C. towns including Boston Bar, Salmon Arm, Rose Prairie, Hazelton, and Burns Lake.

## 'Issues difficult,' Baird says

Continued from Page 1

"I am very pleased that a commission is to examine these difficult issues," said Dr. Baird. "The new technologies are a tool that if used wisely can benefit people, but if they are used inappropriately and without consideration of their ramifications, can also be harmful. I would hope that with the help of input from Canadians, both individuals and groups across the country, we will be able to recommend wise ways of using these tools."

Dr. Baird joined the Department of

Medical Genetics at UBC as an assistant professor in 1972, became associate professor in 1977 and professor in 1982. In 1978, she was appointed head of the department, a position she held until earlier this year. Her research is on the distribution of genetic disease and birth defects in the population. She is a member of the Medical Research Council of Canada, the Science Council of Canada Study Committee on Genetic Predisposition, the Research Council of the Canadian Institute for Advanced Research and the National Advisory Board on

Science and Technology.

Six other distinguished Canadians will sit as commissioners with Dr. Baird, including Maureen McTeer, an active member of the national coalition of groups and individuals who originally lobbied the federal government to establish a royal commission to study new reproductive technologies.

Mulroney expressed confidence that the commission was uniquely qualified to provide advice that will help influence the regulation of reproductive technologies in Canada.

## Research helps forest industry

Continued from Page 1

ing the right species for planting, tending, and other areas of forest management. Now implemented throughout B.C., it's readily being accepted by other provinces.

The early foundations of Klinka's system were developed by UBC Botany Professor Vladimir Krajina, under whose guidance Klinka obtained his PhD in 1976. Klinka translated Krajina's basic research and added his own insight and discoveries to create a database of codified knowledge built around the complex relationships between climatic conditions, soil, plants, and animals.

From slashburning guidelines to fertilization guidelines, every factor is taken into account. With this kind of forest management tool, management decisions are freed from conjecture and wasteful trial and error.

Now an adjunct professor in the Department of Forest Sciences, Klinka has more recently begun to examine the relationship between the height growth of major tree species and environmental factors such as annual water balance, soil nutrients, and soil aeration.

Klinka was born in Prague, Czechoslovakia, where he did his undergraduate degree in forest engineering at Charles'

University. After obtaining his PhD at UBC, he worked for the B.C. Ministry of Forests, most recently as a senior research scientist.

He joined UBC in 1978 as an honorary research associate in the Department of Botany, and has been associated with the Faculty of Forestry since 1980. Prior awards include the Distinguished Forester Award, in 1977, from the Association of B.C. Professional Foresters.

The B.C. Science and Engineering Awards were established by the B.C. Science Council in 1980. The awards selection committee is currently chaired by Erich Vogt, director of TRIUMF.

## \$240 million given for network

Continued from Page 1

The network of Canadian scientists are currently seeking solutions to problems involving a variety of bacterial diseases which affect plants, fish, animals, and humans. The centre will establish the basic science and technological capabilities to address these problems and apply new biological approaches to improve existing diagnostic tests and treatments.

Some of the bacterial diseases currently being investigated are: whooping cough, toxic shock syndrome and dental diseases in humans; shipping fever in cattle which costs North American ranchers \$600-million annually; and bacterial kidney disease in farmed salmon—a major problem in the Canadian aquaculture industry.

Michael Smith, director of the Bio-

technology Laboratory on the UBC campus and professor in the Department of Biochemistry, heads a team of 21 researchers in five locations across Canada receiving \$20-million to establish a network which will expand Canada's capabilities in the newly emerging field of protein engineering to make it competitive with new developments in Europe, Japan and the U.S.

Called Protein Engineering: 3D Structure, Function and Design, the goal of the research, undertaken with industry partnership, is to develop products and processes that can be exploited by the developing Canadian biotechnology industry.

"Biotechnology and protein engineering will have an enormous impact in areas such as agriculture, fisheries, forestry, pharmaceuticals and health care, indus-

tries which are crucial to our economic welfare," Smith said.

A total of 160 proposals for the Centres of Excellence were reviewed by a team of international experts before selection of the final 14.

The University of Victoria is heading one network centre and UVic scientists are involved in five. Simon Fraser University is participating in one centre network.

The federal funding boosts research collaboration across the country among universities, research institutions and the private sector creating what Hayden described as "centres without walls".

Strangway credited the three-year-old provincial centres of excellence program with enabling UBC to strengthen many research areas.

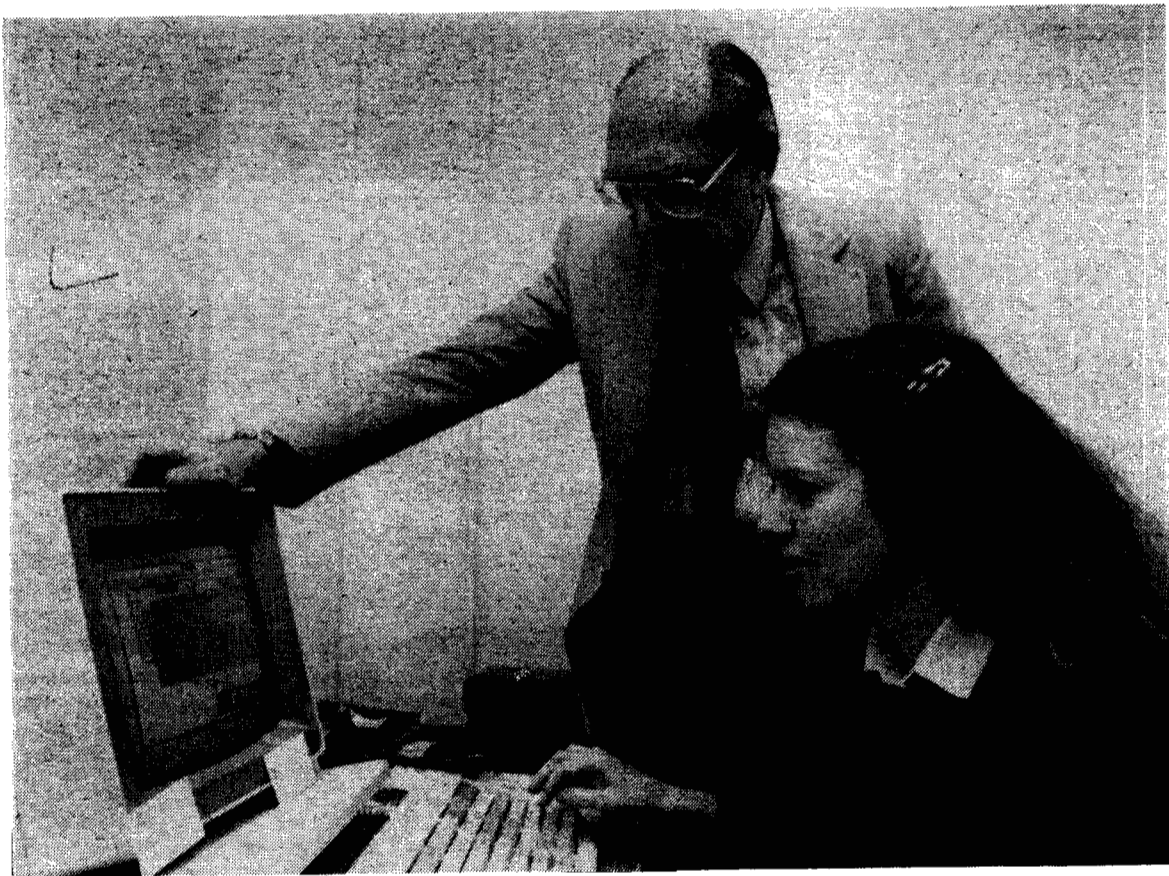


Photo by Media Services

Law Professor J.C. Smith looks on as Project Coordinator Daphne Gelbart examines one of the computer programs designed by the Law Faculty's Artificial Intelligence Research Project.

# Law Faculty project awarded federal funds

By GAVIN WILSON

A law faculty project that combines the knowledge of legal experts with new developments in computer software has received major funding from a federal research agency.

"The Faculty of Law's Artificial Intelligence Research Project (FLAIR) will help lawyers assess complex areas of law and allow law firms to retain the expertise of their best lawyers long after they have gone," said project director and Law Professor J.C. Smith.

The FLAIR team of lawyers and software engineers received \$700,000 in funding for three years from the Social Sciences and Humanities Research Council of Canada to develop EPSILON, Expert Systems In the Law of Negligence.

The project is sharing a further \$100,000 from the Science Council of B.C. with the Law Faculty's Nemetz Alternative Dispute Resolution Centre and also receives support from the university, the Law Faculty, IBM and ICBC.

The FLAIR project emphasizes both theory and the production of legal information systems that can be used by the public.

When the EPSILON project is completed in about three years, it will have created the technology needed to link expert systems to large databases to provide fast, accurate legal information, combine various kinds of software to produce a unified legal information system and create a legal information system for the law of personal injury damages in Canada.

The system will give lawyers, judges, researchers, librarians and insurance companies access to fast and objective legal information and will also benefit the general public, who will receive higher quality service from lawyers with less delay and perhaps even less cost, said Smith.

EPSILON is an advance over other computer-based on-line text databases available on the market that are unwieldy, do not provide proved accurate searches or "smart" conclusions, Smith said.

While databases manipulate facts and figures, expert systems try to capture the knowledge of a human expert to diagnose legal problems and predict the outcome of cases.

An expert system software shell can be filled with a knowledge base consisting of hundreds or thousands of rules based on the expertise of a law firm's senior partner and make decisions guided by that expertise. Through a link to a database of cases, the expert system can retrieve relevant case information automatically.

In 1986, Smith and his associates created the first expert system in case law in the world — the Nervous Shock Advisor. Still undergoing revisions, the system helps lawyers determine whether a client could recover damages in negligence for nervous shock, the trauma suffered by those affected by accidents.

The system evaluates each case, highlighting the strongest and weakest points with case precedents both sides could argue, provides full transcripts of leading cases and summaries of all cases decided since 1900 in Canada, Great Britain, Australia and New Zealand. If there are no grounds for a case, the computer assesses the case deficiencies.

"Lawyers who have used the advisor say they have learned more in 30 minutes than they would have in 50 hours of traditional research," said Smith.

"It's simple enough to be used by someone with no computer familiarity while at the same time avoids frustration for experienced users who are accustomed to on-line computer searches."

Another system developed by the FLAIR project is the Whiplash Knowledge System, a preliminary version of which is now available to judges and lawyers at the Vancouver courthouse library and to adjusters at ICBC.

The system helps determine if a claim for damages exists and gives a range of awards depending on the severity of the injury — all automatically adjusted for inflation by the computer. The advisor will even tell you how certain judges have

ruled in the past.

One of the major long-term goals of EPSILON is to reduce the growing backlog of personal injury claims awaiting trial and encourage alternate means of resolving disputes, freeing the courts for other matters, Smith said.

Personal injury claims resulting from motor vehicle accidents account for 50 per cent to 70 per cent of all court cases and of these, about 80 percent involve the soft tissue injuries to the neck and back known as whiplash.

In 1988, ICBC paid out \$400 million for bodily injury claims, and at least 25 per cent of that was consumed by litigation expenses, Smith said.

"By providing fast, objective information about whiplash damages claims, we hope to encourage the timely, out-of-court resolution of many disputes through such alternatives to the courts," he said.

Development of an expert system that calculates future-earnings damages awarded in personal injury action has begun this year using the expertise of Robert Carson and John Struthers, who are economists involved in the field as expert witnesses.

Another system being developed under the EPSILON umbrella is the Hearsay Rule Advisor.

It uses the expertise of Professor Marilyn MacCrimmon to give opinions on the admissibility of hearsay statements given in courtroom evidence, along with an indication of the factors the judge will be looking for at trial.

Also being developed is the Impaired Driving Advisor, which offers expert advice about possible defences to an impaired driving charge in the areas of care or control of the vehicle, erratic driving, physical symptoms, sobriety tests, Charter rights, right to counsel and breathalyzer tests.

Another team at UBC — the Legal Information Systems and Technologies Foundation headed by Law Professor John Hogarth — is developing and marketing computer systems on trade law and sentencing.

## Forum

# Interest is rising in Women's Studies

By VALERIE RAOUL

Valerie Raoul is an Associate Professor in the Department of French, specializing in writing by women, and French feminist theory. She is also Chair of the Faculty of Arts Women's Studies Committee. This article represents her personal opinion.



Raoul

of Western Ontario, McGill) have recently established centres for Women's Studies.

The problem seems to be less one of resistance to Women's Studies than the time it has taken for current research in many areas to become widely known at UBC. Those of us in the Humanities and Social Sciences who travel frequently to conferences know that it is in the area of feminist research that much of the most exciting work is being done — not only on women as an object of study, but as a critique of the premisses and conclusions of traditional research. No one who has been exposed to any of this research would ask (as some have here), why women's studies? Why not men's studies too?

One does not need to delve too far into most academic disciplines to discover that what is taught and how it is taught suffers from gender bias. We already have men's studies. It would be utopian to believe that any academic department will, in the foreseeable future, systematically eliminate all such bias from all its courses. In the meantime, a wider selection of courses specifically adopting a feminist approach would expose students to another point of view, fulfilling in the most obvious way the university's mission to encourage critical thinking about the assumptions on which most systems are based. This would help dispel the myth that courses in areas such as Women's Studies are "ideological, whereas all the rest are neutral or "objective."

This is not to imply that there is a biologically innate sexual difference between women's interests and men's, between women's ways of knowing, and men's. As our conference showed, what exists is culturally determined gender difference and systematic domination by one set of values associated with one sex.

Women now comprise over 50 per cent of the student body here at UBC, yet they are still a small minority in areas where they are perceived as intruding into the realm of male values. Even in departments with a majority of female students, male professors are more numerous in the upper ranks. How long will it take for women to have equal status, when it has taken over 20 years to remove the urinals from the women's washrooms in the Buchanan building?

The positive encouragement of new courses concerned with women and incorporating feminist methodology would surely speed up the process. A centre for feminist research would provide a means to attract outstanding female academics and graduate students. Women's Studies should be central, not marginal, on campus.

There has been a surge of interest in Women's Studies at UBC in recent weeks. About 500 people attended a conference on "Gender and the Construction of Culture and Knowledge" held in September. Twenty-nine UBC faculty and 14 students, from 17 different departments, participated in that event as speakers, chairs of sessions or organisers. Since then, Marilyn French's Vancouver Institute lecture, in which she presented a feminist interpretation of power politics, drew a record crowd and she received a standing ovation after her address. In the same period, SFU played host to a conference on the introduction of Women's Studies into the high school curriculum in B.C. and the University of Victoria celebrated the tenth anniversary of their Women's Studies program.

Many students, both undergraduate and graduate, have been asking me about the possibility of taking Women's Studies courses here at UBC. They ask me because there is no department where they can inquire, and no faculty member whose official job it is to take care of Women's Studies.

Sometimes they ask the Office for Women Students. We have to tell them that we have only two courses labelled "Women's Studies" at the second year level. UBC is the only major university in Canada where it is not possible to obtain any kind of degree or diploma mentioning Women's Studies as an area of specialization.

Why is this? I have been asked by the media if it is due to a particularly sexist or academically conservative climate at UBC, or because of a bias against interdisciplinary studies in general. Such claims would be hard to substantiate.

One reason is that UBC has not had a general BA degree or Minors, and it is more difficult to establish a Major. Another is that the only Women's Studies committee has been limited to the Faculty of Arts. Other universities with a similar intellectual climate (the University

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# Calendar

November 5 –  
November 18

## SUNDAY, NOV. 5

### Standing Committee on the Holocaust

An Interfaith Inquiry. Workshops, Debate, Panel Discussion, Exhibits, Film and Slides with Bill Nicholls, Christopher Friedrichs, Martin Kitchen, Ira Nadel, Graham Forst, Robert Smith and James Roberts. Free admission. All welcome. Woodward Library, IRC from 1-6 pm. Call 298-6622.

## MONDAY, NOV. 6

### Classics/AIA Lecture

Archaeology and the Cult of the Mother Goddess in Ancient Israel. William Denver. U of Arizona. Lecture Theatre, Museum of Anthropology at 8 pm. Call 228-2889.

### Office for Women Students

Procrastination. One session Workshop. Free admission. Registration required. Women Students' Lounge, 223 Brock Hall from 12:30-2:20 pm. Call 228-2415.

### Applied Math Seminar

A Simple Algorithm for One-Dimensional Dynamic Programming. Dr. Maria M. Klawe, Computer Science, UBC. Mathematics 229 at 3:45 pm. Call 228-4584.

### Mechanical Engineering Seminar

Force Control for Large Flexible Robotic Manipulators with Doug Latornell and Modelling of Stalled Airfoils with William Yeung. Both, PhD students, UBC. Civil and Mechanical Eng. 1202 at 3:30 pm. Call 228-4350.

### Physiology Seminar

Mammalian Motor Control. Dr. P. Bawa, Kinesiology, Simon Fraser U. IRC #5 at 4:45 pm. Call 228-2083.

### Library/Archival and Information Studies

In cooperation with the Alcuin Society. The Book of Kells and other Anglo-Celtic Manuscripts - the art and social significance of English and Irish illuminated manuscripts. Prof. Emeritus, and former director of the School, Roy Stokes. All welcome. North Wing, Main Library 835 from 7:30-8:30 pm. Call at 228-3184.

### Continuing Ed Lecture

The International System of the 1990s: Canadian Opportunities and Risks. Bernard Wood, CEO, The Canadian Institute for International Peace and Security. All welcome. Buchanan A104 from 8-10pm. Call 222-5238.

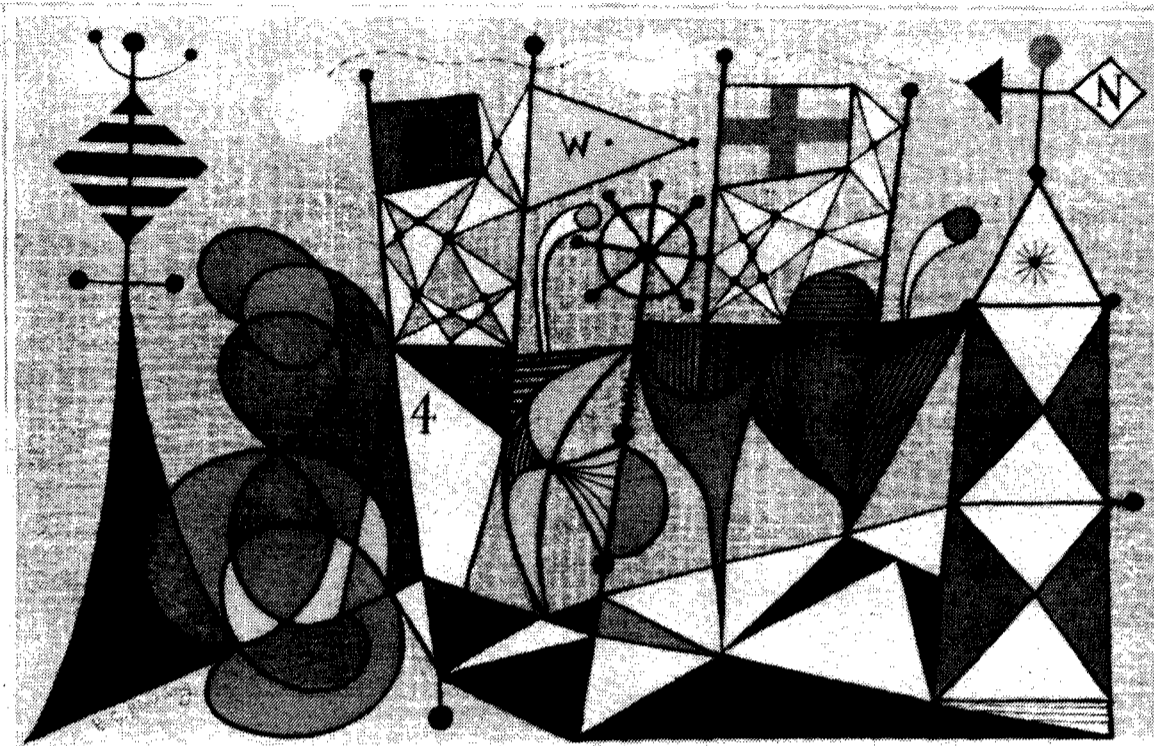
### Biochemistry Seminar

In Pursuit of the Structural Basis for the Regulation of Acyl-CoA Dehydrogenases by Substrate Binding. Dr. Marian Stankovich, U of Minnesota (on sabbatical leave, Biochemistry, UBC). IRC #4 at 3:45 pm. Call 228-3719.

### Evening Music Concert

UBC Percussion Ensemble. John Rudolph, director. Free admission. Music Recital Hall at 8 pm. Call 228-3113.

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 1W5. Telephone 228-3131. Advertising inquiries: 228-4775. Director: Margaret Nevin Editor-in-Chief: Don Whiteley Editor: Howard Fluxgold Contributors: Connie Filletti, Paula Martin, Jo Moss, and Gavin Wilson.



This work by B.C. Binning, *Four Ships on a Northwesterly Course*, is currently on display at the UBC Fine Arts Gallery. It is part of an exhibition, on view until Nov. 18, that brings together works of well known Canadian artists drawn from the university's own collection.

## CALENDAR DEADLINES

For events in the period Nov. 19 to Dec. 2 notices must be submitted on proper Calendar forms no later than noon on Tuesday, Nov. 7 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3131. Notices exceeding 35 words may be edited. Please note the change in deadline for this edition.

## TUESDAY, NOV. 7

### Creative Writing Poetry Reading

Andrew Wreggitt reads from his new collection, *Making Movies*. Free admission. Buchanan Penthouse/ Call 228-2712.

### Graduate Student Society

Female Grad Student Support Network. Funding: Besides the Big Three What Else is There? Nancy Horsman, Asst. to Dir., Women Students Office and Dan Worsley, Asst. to Dir., Awards and Financial Aid. Free admission. Grad Student Centre Garden Room at 12:30 pm. Call 228-3203.

### Electrical Engineering Seminar

Neural Networks - Theory and Applications. Gary Josin, Pres. Neural Systems Inc. McLeod 402 at 1:30 pm. Call 228-4924.

### Statistics Seminar

Some Characters of Cumulants. Dr. Z. Fang, Statistics, UBC. Ponderosa Annex C 102 at 4 pm. Call 228-3167.

### History Seminar

Probability and Irreligion: Hume's Of Miracles in Context. Dr. David Wooten, Landsdowne Chair of the Humanities, U of Vic. Buchanan Penthouse at 3:30 pm. Call 228-2561.

### History Lecture

Ulysses Bound: Venice and the Idea of Liberty from Harrington to Hume. Dr. David Wooten, Landsdowne Chair of the Humanities, U of Vic. Buchanan A 102 at 12:30 p.m. Call 228-2561.

### Office for Women Students

Panel discussion. Status of Women - perspectives on how the women of UBC are faring as students, staff and faculty. Free admission. Register at WSO Brock 203. IRC #5 from 12:30-2:20 pm. Call 228-2415.

### Faculty Women's Club

Monthly Meeting. Liposomes with Dr Pieter Cullis and Parallax with Dr. Mark Churchland. All members, spouses and friends welcome. Cecil Green Park House at 8 pm. Call 224-5307.

### Students for Forestry Awareness Lecture

Forestry and Forestry Research: Mutually Exclusive or Merely Totally Unrelated? Prof. John Worrall, Dendrology/Tree Physiology, Forestry, UBC. MacMillan 166 at 12:30 pm. Call 228-5689.

### Biochemistry Seminar

Receptor-mediated Viral Attachment to Cell Surfaces. Dr. Daniel Hammer, Cornell U. IRC #4 at 12:30 p.m. Call 228-7579.

### Botany Seminar

Ecological and Social Considerations in Environmental Change. Dr. J.P. Kimmins, Forest Sciences, UBC. Biological Sciences 2000 at 12:30 pm. Call 228-2133.

### Lectures in Modern Chemistry Seminar

Imaging Molecules on Surfaces by Scanning Tunneling Microscopy. Dr. Shirley Chiang, IBM Research Center, San Jose, Calif. Chemistry B250 at 1 pm. Refreshments, 12:40. Call 228-3266.

### Geography Colloquium

Living Systems in Human Geography. Prof. Walter Hardwick, Geography, UBC. Geog 200 at 3:30 pm. Call 228-6959.

### Oceanography Seminar

Enzymatic Indices of Aquatic Secondary Production. John Berges, Oceanography, UBC. BioSciences 1465 at 3:30 pm. Call 228-2317.

## WEDNESDAY, NOV. 8

### Music Noon Hour Concert

Solo and Chamber music from here and abroad. Chinese Instrumental Ensemble

featuring Sun Yong, Juang Ji-Rong, Wang Zhi-Ping. Tickets \$2 at the door. Music Recital Hall at 12:30 pm. Call 228-3113.

### United Church Reception.

To meet Rt. Rev. Dr. Sang Chul Lee, Moderator of the United Church of Canada. All welcome. Social Suite, Faculty Club at 10 am. Call 224-3722.

### Geophysics Seminar

Education and Research in Applied Geophysics: A Perspective for the Future. Dr. Stan Ward, Visiting Prof., Geological Sciences, UBC. Geophysics and Astronomy 260 at 4 pm. Coffee from 3:45. Call Doug Oldenburg at 228-5406/2267.

### Medicine/Pharmaceutical Sciences Seminar

Neuropeptide Y-Mechanisms of Action on Arterial Smooth Muscle. Dr. Tim Neild, NHMRC Scholar, Physiology, Monash U, Australia. IRC #3 from 11:30 am-12:30 pm. Call 228-2575.

### Ecology/Resource Ecology Seminar

Social Behaviour and Population Dynamics in Red Squirrels. Stan Boutin, U of Alberta. BioSciences 2449 at 4:30 pm. Call 228-2731.

### AMS Lecture

BC Forest Practices. Lecturer to be announced. Free Admission. Sub Auditorium at 12:30 pm. Call at 228-2050.

### Rehab Medicine/OT Division Film

Dr. Donald Meichenbaum demonstrates Psychotherapeutic Techniques to Help Patient Make Changes in Life. Free Admission. All Welcome. Lab #8, 3rd floor, Koerner Pavilion, University Hospital, UBC site, 12:30-1:30 pm. Call 228-7395.

### Microbiology Seminar

Protooncogene Function in Transgenic Mice. Dr. J. Marth, Biomedical Research Centre, UBC. Westbrook 201 at 12:30 pm. Call 228-6648.

## THURSDAY, NOV. 9

### Lunchtime Music

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

### Evening Chamber Music

UBC Mixed Chamber Ensembles. Free Admission. Music Recital Hall at 8 pm. Call 228-3113.

### English Colloquium

Bowing Among the Titans - T.S. Eliot visits the National Gallery, April 1911. Illustrated. Dr. J. Cooper. Buchanan Tower, fifth floor at 3:30 pm. Call 228-5743.

### Geological Sciences Seminar

Coalification and Tectonics in the Ligurian Apennines, Italy. M. Reinhardt, Freie Universitaet, Berlin, Visiting Speaker. Geological Sciences 330A from 12:30-1:30 pm. Call 228-4525.

## FRIDAY, NOV. 10

### Fisheries/Aquatic Science Seminar

Food Resources Temperature, Growth and Survival of Larval Pollack in the Southeastern Alaska Ecosystem. Sam Bledsoe, U of Washington. BioSciences 2361 at 3:30 pm. Call 228-2731

### Chemical Engineering Seminar

Reactive Extrusion of Polymer Systems. Dr. W. Baker, Queen's U. Chemical Eng. 206 at 3:30 pm. Call 228-3238.

### Creative Writing Literary Reading

Eugene McNamara, author of *The Moving Light* (1986), a poetry collection and *Spectral Evidence* (1985), a short story collection. Free admission. Creative Writing Reading Room, Buchanan E, 4th floor at 2 pm. Call 228-2712.

### Band Concert

UBC Stage Band. Fred Stride, director. Free admission. Music Recital Hall at 12:30 pm. Call 228-3113.

### Band Festival

15th Field Artillery Band. Capt. Richard Van Slyke, director. Free admission. Old Auditorium at 6:30 pm. Call 228-3113.

## SATURDAY, NOV. 11

### Afternoon Band Festival

Pacific Symphonic Wind Ensemble. David Branter, director. Free admission. Music Recital Hall at 1:30 pm. Call 228-3113.

### Evening Band Festival

UBC Wind Ensemble. Martin Berinbaum, director. Free admission. Old Auditorium at 8 pm. Call 228-3113.

## SUNDAY, NOV. 12

### Band Festival

High School Honour Band. Martin Berinbaum, director.

Free admission. Old Auditorium at 1 pm. Call 228-3113.

### Sunday Brunch - Faculty Club

From the Black Forest of Germany, savour delicious specialties superbly prepared by our chef. Adults \$14. Children under 10, \$7.50. Reservations suggested. Main Dining Room 11 am to 1 pm. Call 228-3803.

# Calendar

November 5 –  
November 18

## MONDAY, NOV. 13

### Chemistry Lecture

Magic and Other Angles in NMR Spectroscopy. Dr. A. Pines, (1989-90 McDowell Lecturer) U of C at Berkeley. Chemistry D225 at 2:30 pm. Call 228-3266.

## TUESDAY, NOV. 14

### Statistics Seminar

Linear Time Series Models. Dr. P. de Jong, UBC. Ponderosa Annex C102 at 4 pm. Call 228-3167.

### McDowell Chemistry Lecture

Magnetic Moments. Dr. A. Pines, U of C Berkeley. Chemistry B250 at 1 pm. Refreshments 12:40 pm. Call 228-3266/3299.

### Oceanography Seminar

Organic Geochemical Evidence for Iron Limitation on Primary Productivity in the Eastern Tropical Pacific. Fred Prah, Oregon State U. BioSciences 1465 at 3:30 pm. Call 228-2317.

### Botany Seminar

Molecular Biology and Gene Expression in Archaeobacteria. Dr. P. Dennis, Biochemistry, UBC. BioSciences 2000 at 12:30 pm. Call 228-2133.

### Multicultural Liaison Public Forum

Race Relations and the Media. M. Valpy, columnist, Globe & Mail; Prof C. Ungerleider, UBC; Yasmin Jiwani, grad student SFU. Robson Square Media Centre Theatre from 7-9 pm. All welcome. Call 228-5339.

### Japan Seminar Series

Japan's Reaction to Fallows and Wolfers. Prof Keizo Nagatani, Economics, UBC, researcher vis a vis the role of the Japanese bureaucracy in economic policy making. Asian Centre 604 at 12:30 pm. Call 228-4688.

### Students for Forestry Awareness Lecture

Global and Local Implications of the Looming Timber Shortage in the 1990's. Mr. C. Widman, Analyst. MacMillan 166 at 12:30 pm. Call 228-5689.

### Pulp and Paper Centre Lecture

Thoughts of the Future. Dr. A.H. Nissan, Dow Distinguished Lecturer. Pulp and Paper Centre, 101 at 1:30 pm. Call 224-8560.

### Geography Colloquium

Debris Torrent Control in the Austrian Alps. Dr. Gunter Bloschl, NSERC Senior Visiting Fellow. Geography 200 at 3:30 pm. Call 228-6959.

### Music Students Recital

In the Spotlight. Free admission. Music Recital Hall at 8 pm.

Call 228-3113.

### Tai Chi Group

Introduction to Basic Tai Chi. Sam Masich, Co-ordinator. \$45 for 12 sessions. Ballroom, Faculty Club from 7:45 - 8:45am. Call 228-4693.

### Session on Wine #6

Australia/Italy/Chile. D. Berezowski, wine consultant to Mark Anthony Wines. \$15 per session. Music Room, Faculty Club from 7 - 9pm. Call 228-4693.

## WEDNESDAY, NOV. 15

### Applied Mathematics Seminar

Storm Tracks, Wave Breaking and Blocking - A Medley of Large-Scale Atmos-

pheric Phenomena. Dr. J. Fyfe, Oceanography, UBC. Mathematics 229 at 3:45 pm. Call 228-4584.

### AMS Recycling Lecture

Andrea Miller. Sub Auditorium at 12:30 pm. Free admission. Call 228-2050.

### Rehab Medicine/OT Film

Dr. A. T. Beck, OT/UBC, developer of Cognitive Restructuring Therapy, demonstrates this technique with a patient. Free admission. Lab #8, 3rd flr, Koerner Pavilion, University Hospital, UBC site at 12:30 pm. Call 228-7395.

### Regent College Forum

Christian Marriage in a cross-cultural perspective. Ingrid Trobisch. Bring your lunch. Regent College 100, 11 am - noon. Call 224-3245.

### Ecology/Resource Ecology Seminar

Do Predators Have an Advantage in Coevolution with Prey? Peter Abrams U of Minnesota. BioSciences 2449 at 4:30 pm. Call 228-2731.

### Microbiology Seminar

Antigenic Variation in Campylobacter Coli. Dr. T. Trust, Biochemistry and Microbiology, U of Vic. Wesbrook 201 at 12:30 pm. Call 228-6648.

### Oceanography Seminar

Interpreting Velocity Time Structure From a Neutrally-buoyant Float. Eric Kunze, U of Washington. BioSciences 1465 at 9:30 am. Call 228-2317.

### Pharmacology Seminar

Regulation of Smooth Muscle Myofilament Calcium Sensitivity and the "Latch". Dr. C. Van Breeman, U of Miami. IRC #3 at 11:30 am. Call 228-2575.

### Music Noon-hour Concert

Eric Shumsky, violin. Free admission. Music Recital Hall at 12:30 pm. Call 228-3113.

### Faculty Club Buffet

Pre-Senate Italian Buffet. Main Dining Room 5:30 - 7:30pm. Call 228-3803.

## THURSDAY, NOV. 16

### Medical Grand Rounds

New Medical Therapies in Inflammatory Bowel Disease. Dr. S. Hanauer, U of Chicago. Ground floor lecture hall University Hospital, UBC Site at Noon. Call 228-7216.

### Geological Sciences Seminar

The Masset Formation - Evidence of Miocene Subduction in the Queen Charlotte Islands. Dr. Cathie Hickson, Geological Survey of Canada. GeoSciences 330A 1-2:30 pm. Call 228-4525.

### Biotech Lab Seminar.

Development of a Recombinant AIDS Vaccine. Dr. Yong Kang, Microbiology, U of Ottawa. IRC #5 at 4 pm. Call 228-5629.

### UBC Choral Union

Steven Morgan, director. Music Recital Hall at 12:30 pm. Call 228-3113.

### Tai Chi Group

Introduction to Basic Tai Chi. Sam Masich, Co-ordinator. \$45 for 12 sessions. Ballroom from 7:45-8:45am. Call 228-4693.

### Beaujolais Nouveau 1989

Celebrate this very special time of year. \$5 per glass, \$25 per bottle. Faculty Club Music Room at 6pm. Call 228-4693.

## FRIDAY, NOV. 17

### Fisheries/Aquatic Science Seminar

BKME in the Fraser River - A Search for Ecological Effects in Over-wintering Juvenile Chinook Salmon and Uptake of Organochlorines in Other Fish. Hal Rodgers, Dept. of Fisheries. BioSciences 2361 at 3:30 pm. Call 228-2731.

### Medical Genetics Seminar

Report from American Society of Human Genetics Meeting in Baltimore, from Medical Genetics members. University Hospital, Shaughnessy Site D308, at 2:15 pm. Call 228-5311.

### Chemical Engineering Seminar

Cell Recovery Using Hollow-Fibre Cross-filtration Technique. Graduate student Danny Lee. Chem. Engineering 206 at 3:30 pm. Call 228-3238.

### Creative Writing Reading

James Houston, author of Running West and The White Dawn. Free admission. Buchanan Penthouse at 12:30. Call 228-2712.

### Music Concert

UBC Chamber Strings. John Loban, director. Music Recital Hall at 1:30 pm. Free admission. Call 228-3113.

### UBC Choral Union

Steven Morgan, director. Music Recital Hall at 8 pm. Call 228-3113.

### Graduate Student Centre

Open Stage Talent Night. Amateur musicians, jugglers, singers, comedy acts, etc. Fireside Lounge at 6pm. Call 228-3203.

### Faculty Club Seafood Festival

Delectable seafood buffet. Main Dining Room 5:30 - 8:30 pm. Call 228-3803.

## NOTICES

### THE VANCOUVER INSTITUTE



Sat. Nov. 11  
Emperors and Democrats in China. Prof. Alexander Woodside, Dept. of History, UBC.

### Sat. Nov. 18

High-Tech And The Global Economy: Where Is It Taking Canada? Prof. Richard Lipsey, Dept. of Economics, Simon Fraser U.

All lectures at 8:15 p.m. in IRC #2.

### Frederic Wood Theatre

She Stoops to Conquer by Oliver Goldsmith under the direction of Kevin Orr. Wed. Nov. 15-Sat. Nov. 25. No performances Sunday. Reservations recommended. FWT 207 or call 228-2678.

### Fine Arts Gallery

Selected Works of Canadian Art from the Collections of UBC. Until Nov. 18. Main Library. Tues.- Fri., 10 am- 5pm; Saturday, noon - 5 pm.

### Language Programs/Services Whistler Weekend

Intensive non-credit conversational Japanese and Mandarin classes Nov. 11 - 13 at the Nancy Greene Lodge. Fee \$280 includes meal and tuition. Participants must pre-register. Call Language Programs and Services, Centre for Cont. Education at 222-5227.

### Back Pain Research

Volunteers needed for magnetic resonance imaging of healthy spines - men and women aged 18 - 60, non-pregnant, no pacemakers, no intracranial clips and no metal fragments in the eye. University Hospital employees excluded. About 1 hour required. Call June in the MRI Unit between 8 am and 4 pm, Monday - Thursday at 228 - 7720.

### Office for Women Students

Mature Students Support Group. Drop in Tuesdays until Nov. 28. Free admission. Brock Hall, Room 223 (Women Students' Lounge), 12:30 - 1:30 pm. Call 228-2415.

### Badminton Club

Faculty, Staff and Grad Student Badminton Club meets Thursdays, 8:30 - 10:30 p.m. and Fridays 6:30 p.m. in Gym A of the Robert Osborne Sports Centre. Fees \$15 per year with valid UBC Library card. For information call Bernard 731-9966.

### UBC Employment Equity

Faculty and staff interested to learn about the program, including the census to take place in February 1990, please contact Dr. Sharon E. Kahn, Director. Dr. Kahn is happy to arrange visits to academic and administrative groups on campus. Call 228-5454.

### Faculty Club Game Festival

A great culinary festival celebrating the Hunting Season. Regular menu plus specialties at lunch, special menu at night. Mon. Nov. 13 - Fri. Nov. 17. Main Dining Room. Call 228-3803.

Continue every Sunday until the end of November. Main Dining Room from 11 am-1:30 pm. Call 228-3803.

Faculty, Staff and Grad Student Badminton Club meets Thursdays, 8:30 - 10:30 pm and Fridays 6:30 - 8:30 pm in Gym A of the Robert Osborne Sports Centre. Fees \$15 per year with valid UBC Library card. Call Bernard at 731-9966.

### Agricurl

Late afternoon curling at its best. Experienced curlers and those wishing to learn are welcome. At Thunderbird, Tuesdays, 5:15 - 7:15. Two terms, \$80. Call Paul Willing, 228-3560 or Alex Finlayson, 738-7698 (eve.)

### Walter Gage Toastmasters

Wednesday. Public Speaking Club Meeting. Speeches and tabletopics. Guests are welcome. Call Sulan at 597-8754, SUB 7:30 pm.

### Psychiatry Study

Subjects (adults age 30 and above) are needed for a personality questionnaire study being conducted at the UBC Dept. of Psychiatry. Participants will receive \$15 and a personality assessment. Call 228-7895.

### Psychology Study

Opinions of teenage girls and their parents on important issues surfacing in family life. Volunteers needed: 13 - 19 year old girls and one or both of their parents for 1 to 1 1/2 hours. Call Lori Taylor at 733-0711.

### International House

#### Language Exchange

Free service to match up people who want to exchange their language for another. At present, many Japanese and Mandarin speakers wish to exchange their languages for English. Call Yukiko Yoshida at 228-5021.

### International House

#### Language Bank

Free translation/interpretation services offered by International students and community in general. Call Teresa Uyeno at 228-5021.

### Sexual Harassment Office

UBC's policy and procedures are now in place to deal with instances of sexual harassment. Two advisors are available to discuss questions and concerns on the subject. They are prepared to help any member of the UBC community who is being sexually harassed to find a satisfactory resolution. Call Margaretha Hoek or Jon Shapiro at 228-6353.

### Statistical Consulting and Research Laboratory.

SCARL is operated by the Department of Statistics to provide statistical advice to faculty and graduate students working on research problems. Call 228-4037. Forms for appointments available in Room 210, Ponderosa Annex C.

### Volunteering

To find an interesting and challenging volunteer job, get in touch with Volunteer Connections, the on-campus information and referral service supported by the AMS. Student interviewers are trained to help UBC students, staff and faculty find volunteer jobs in their area of interest. For an appointment to explore the available volunteer options, contact: Volunteer Connections, Student Counselling and Resources Centre, Brock Hall 200 or call 228-3811.

### Lung Disease Subjects Wanted

We are seeking interstitial lung disease subjects in order to study the effect of this disorder on response to submaximal exercise. For further information call Frank Chung at 228-7708, School of Rehab. Medicine.

### Parenting Project

Couples with children between the ages of 5 and 12 are wanted for a project studying parenting. Participation involves the mother and father discussing common childrearing problems and completing questionnaires concerning several aspects of family life. Participation will take about one hour. Evening appointments can be arranged. Interpretation of the Questionnaires is available on request. Call Dr. C. Johnston, Clinical Psychology, UBC at 228-6771.

### Teaching Kids to Share

Mothers with 2 children between 2 1/2 and 6 years of age are invited to participate in free parent - education program being evaluated in the Department of Psychology at UBC. The 5 session program offers child development information and positive parenting strategies designed to help parents guide their children in the development of sharing and cooperative play skills. Call Georgia Tiedemann at the Sharing Project 228-6771.

### Fitness Appraisal

Physical Education and Recreation, through the John M. Buchanan Fitness and Research Centre, is administering a physical fitness assessment program to students, faculty, staff and the general public. Approximately 1 hour, students \$25, all others \$30. Call 228-4356.

### Surplus Equipment Recycling Facility

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

### Neville Scarfe Children's Garden

Visit the Neville Scarfe Children's Garden located west of the Education Building. Open all year - free. Families interested in planting weeding and watering in the garden Call Jo-Anne Naslund at 434-1081 or 228-3767.

### Botanical Garden

Open every day from 10 am - 3 pm. until mid-March. Free admission.

### Nitobe Garden

Open Monday to Friday, 10 am - 3 pm until mid-March. Free admission.

# UBC school rated one of two best in North America

By PAULA MARTIN

UBC's School of Family and Nutritional Sciences was rated as one of the top two family science programs at North American universities in a recently published study.

UBC shared top honors with Pennsylvania State University, which is regarded as having the best family science program in the U.S.

Two of the school's faculty members, Director Daniel Perlman and Professor James White, were also singled out as being among the top family science scholars in North America by the four Utah State University researchers who published their findings in the Family Science Review.

The researchers were primarily interested in identifying those family science graduate training programs which stand out as high producing, high quality and high impact departments.

"We were very flattered that UBC's family science program was evaluated so positively," said Perlman.

"I had always felt that my colleagues

were highly productive and doing important work, but it's pleasing to see external confirmation of that."

The researchers assessed the productivity and impact of 402 faculty members at American and Canadian universities during 1984-86.

Their examination included the average annual frequency of first and second authored publications, the calibre of journals in which they had been published, and the frequency with which each faculty member's publications were cited.

The researchers also looked at the number of books in print by each faculty member.

Perlman said the positive showing reflects UBC's generally excellent reputation, the support of the senior administration over the last decade, the values of the current faculty and the leadership provided by the previous director of the school, Roy Rodgers.

The School of Family and Nutritional Sciences, part of the Faculty of Arts, offers four programs—in dietetics, family science, home economics and human nutrition.



T.C. Ho (centre), vice-chairman and CEO of the Hang Seng Bank of Hong Kong discusses a painting by Pujie, younger brother of the last emperor of China, Aisin-Giorro Puyi. Ho donated the painting to UBC. Looking on are UBC professors Graham Johnson (left) and John Stager.

Photo by Media Services

## Reduced information urged for Alzheimer sufferers

By PAULA MARTIN

Families and health care professionals should lighten the information load on Alzheimer's disease patients if they want to make day-to-day living easier for them, says a UBC psychology professor.

"Because Alzheimer's patients have a difficult time selecting relevant information, we have to reduce the information, select what is critical, and give them only what they need," said Peter Graf.

Graf is investigating which aspects of memory are the earliest to become impaired in people suffering from the disease.

"We're trying to find out the role of attention in memory, because memory doesn't work without attention," he said. "You can't ask meaningful questions about memory if you're not sure the information got in there in the first place."

Alzheimer's disease, a form of dementia, can occur between ages 45 and 60, occurs more frequently as people get older, and strikes more women than men. The disease involves irreversible loss of memory, deterioration of intellectual functions, and speech and gait disturbances.

As part of his research, Graf conducted a pilot study of Lower Mainland Alzheimer's patients who were mildly or moderately impaired.

His research into attention and its role in memory led him to the conclusion that we must highlight relevant information for Alzheimer's patients if we want them to remember.

"In people with normal memory, the opposite is almost always the case — we can remember better if there is a lot of redundant information," Graf said.

In their attempt to deal with the burden of a relative suffering from Alzheimer's disease, families tend to create a rich environment, but this may not be the best thing for the patient, he said.

"It may be counterproductive because it is going to be massively confusing," Graf said, adding that the simple approach is the best.

"If they are doing something, don't interrupt them. If they're speaking, let them speak. Phrase your questions simply. Don't ask a question that requires integrating a lot of information. Use familiar language."

Graf said the same goes for health-care professionals who take care of Alzheimer's patients. Less stimulation in a

clinical setting may be less confusing and thus better in the end, he said.

When transferred to hospital, Alzheimer's patients are surrounded with new belongings and experiences, Graf said.

"We should surround them with familiar items such as pictures or mementos and keep the distractions to a minimum," he added.

"Anything that is familiar to them is going to make it easier."

### Across Canada

## Dalhousie launches deans' forums

Dalhousie University in Halifax has launched a series of Deans' Fall Forums designed to improve communications on topics of interest to the campus.

Five deans took part in the first forum which examined the pros and cons of a liberal arts education and the trend toward professional training with only a smattering of arts and social science courses.

Dalhousie Vice-President Denis Stairs (academic and research) says the deans want the discussions to become a campus activity which people get accustomed to, take part in and enjoy.

The forums are not aimed at developing policies. "They are intended to be very low key and relaxed," says Stairs, "providing a forum to talk."

The next topic up for discussion is "the portrayal of truth in first year." It will examine how faculty present evidence in first-year courses. What is the nature of truth? What is objectivity and subjectivity?

### Business course set for UVIC

After years of delays, a proposed new business program for the University of Victoria appears to be moving quickly toward implementation. In a proposal circulated on campus in September, John Schofield, chair of Economics and acting director of Business, said, "The present plan is to begin to admit students to the first year of the program in September, 1990."

The 56-page proposal calls for the establishment of a School of Business with an enrolment by its fourth year of 600 full-time equivalent (FTE) students in a Bachelor of Commerce program and 100 FTE in a Master of Business

Administration program. Its enrolment would be larger than three of the university's existing faculties (Engineering, Human and Social Development, and Law).

Among its specifics, the proposal calls for specialization in three "strategic areas of optional concentration": entrepreneurship and small business; tourism management; and international business. Participation in the cooperative education program would be mandatory for full-time undergraduate and graduate students.

### More money for education

North Americans will spend more money on education and demand growth in quality education and training in the next decade, predicts a new report charting business and consumer trends prepared by the consulting firm Clarkson Gordon.

"Education and training are key issues in North America's ability to compete globally," says the report entitled Tomorrow's Customers. The shortage of basic skills in the North American labor force will be a "serious constraint" to economic growth over the next decade, it adds.

Clarkson Gordon cites recent studies that show one in five North Americans are functionally illiterate, compared to one in 20 in Japan.

Canadians and Americans are now becoming increasingly aware of their "educational inadequacy."

"We expect increased corporate participation through sponsorship, cooperative partnership with schools and provision of education-related technology," Clarkson Gordon predicts.

### Counselling Psychology Colloquium

"PROJECT ASSESSMENT IN CHILD SEXUAL ABUSE — RESEARCH IN PROGRESS.

Dr. John Allan and Sarah Woodward

DATE: Thursday, November 30, 1989

TIME: 12:30 p.m.

PLACE: Room 102, 5780 Toronto Road, UBC.

For information call: 228-5259

## CLASSIFIED

Classified advertising can be purchased from Media Services. Phone 228-4775. Ads placed by faculty and staff cost \$6 per insertion for 35 words. Others are charged \$7. Monday, Nov. 6 at 4 p.m. is the deadline for the next issue of UBC Reports which appears on Thursday, Nov. 16. Deadline for the next edition on Nov. 30 is 4 p.m. Nov. 20. All ads must be paid in advance in cash, by cheque or internal requisition.

### Employment

**EMPLOYMENT PART-TIME:** One of our purposes is to provide opportunities for retired professors and recent graduates of graduate programs to teach one or two courses. Subject matters: Arts (social sciences and humanities); Education (language teachers, early childhood education teachers); and Commerce (basic courses). We have a full range of Montessori materials; interactive laserdisk technology; and modem access to UBC etc. libraries. Some UBC-transfer courses. Contact persons: Lael Whitehead MA (Arts); Marianne Luhman MEd, ECE or Leyla Davoudian PhD, Education; Raymond Rodgers PhD, Commerce (acting); Doug Tomilson MEd, computing/technology. 685-9380. UNIVERSITY COLLEGE VANCOUVER (New Summits). 548 Beatty, V6B 2L3.

### Services

**Diabetes and Exercise Study:** Males, 20-49 years old, who require insulin and are not currently exercising regularly, are invited to participate in a 12 week exercise program. Call Dr. Linda McCargar at 228-4045.

**FOR SALE:** This space in UBC Reports classified section. This ad costs faculty and staff \$6 per insertion. Others pay \$7. Phone 228-4775 for more information or to place an ad.

**VICTORIA REAL ESTATE:** Experienced, knowledgeable realtor with faculty references will answer all queries and send information on retirement or investment properties. No cost or obligation. Call collect (604) 595-3200. Lois Dutton, RE/MAX Ports West, Victoria, B.C.

### Advertise in UBC Reports

Deadline for Nov. 30 edition is 4 p.m. Nov. 20

Phone 228-4775 for information

People

# Bunnell honored by foresters

Forestry Professor **Fred Bunnell** has won a scientific achievement award from Canada's national association of professional foresters for his major contributions to wildlife studies.



**Bunnell**

He was one of three leading foresters honored at the Canadian Institute of Forestry's annual meeting, Oct. 16.

A forest wildlife specialist, Bunnell is developing ways to integrate forest and wildlife management. He has studied black-tail deer for almost 20 years and also worked with grizzly bears, elk, owls, eagles and song birds.

A second major research effort involves exploring different aspects of foraging theory, particularly with deer and mountain sheep. Other areas of study include: lambing periods of mountain sheep and factors in regulating deer and bear populations.

Bunnell has held elected offices in the Wildlife Society, the Canadian Wildlife Society, and the International Union of Forestry Research Organizations.

**Richard Kerekes**, Director of UBC's Pulp and Paper Centre, is one of three engineers awarded

the 1989 Meritorious Achievement Award by the Association of B.C. Professional Engineers.

The award is given to association members for distinctive and outstanding achievement in a professional or technical field.

Kerekes is being recognized for his role in developing a highly successful and collaborative academic program in Pulp and Paper Engineering at UBC.

Started in 1984, the Pulp and Paper Master of Engineering program provides advanced training in pulp and paper technology, offering students the opportunity to specialize in process engineering, project and maintenance engineering, or process control.

Now associate coordinator of the program, Kerekes is also an honorary professor in the Department of Chemical Engineering.

Kerekes also led the initiative for a Pulp and Paper Centre on campus. Opened in 1986, the centre houses the teaching program and a post-graduate research program in collaboration with the Pulp and Paper Research Institute of Canada (PAPRICAN).

Kerekes received his award at the B.C. Professional Engineers Annual General Meeting in Prince George, Oct. 21.



**Kerekes**

**Andrew Mular**, head of the Department of Mining and Mineral Process Engineering, has won the 1990 Robert H. Richards Award from the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME).



**Mular**

It is the first time the award has been conferred on a Canadian academic.

Mular won the award for his research in computer modeling, simulation, process control, and design and economic analysis of mineral processing operations—work undertaken in collaboration with numerous industries including Brenda Mines, Peachland; Gibraltar Mines, Williams Lake; Noranda Research Centre, Point Claire, Que.; and the Canadian Centre for Mining and Energy Technology (CANMET), Ottawa.

Coordinator and co-editor of the plant design series of AIME texts, Mular has served AIME and the Canadian Institute of Mining and Metallurgy in numerous capacities, most recently as chairman of its Vancouver branch.

Mular will receive his award at the AIME Annual General Meeting in Salt Lake City, Utah.

**Fiorenza Albert-Howard** has been appointed director of Data Networking and Telecommunica-

tions at UBC.

Formerly manager of network support at the British Columbia Telephone Co., Albert-Howard will be responsible for the telephone and networking systems at the university.

She took up her new position Nov. 1.

**Donald Brooks**, professor of Chemistry and Pathology, has been appointed chairman of the Canadian Advisory Committee on the Scientific Use of the Space Station (CACUSS).

The committee's mandate is to advise the Canadian Space Agency on the most appropriate types of science to be pursued by Canada on the space station which is expected to be operational by the late 1990s.

CACUSS is also responsible for meeting with the equivalent committees of the three major partners in the Space Station.

They are the National Aeronautics and Space Administration, the European Space Agency and two Japanese space agencies. The meetings are to help develop a utilization plan which will maximize the benefits to be gained from the facility.

## Violent acts are possible by 'abandoned husbands'

BY CONNIE FILLETTI

Men experiencing severe psychological trauma associated with the stress of divorce could commit desperate acts of violence, says Dr. Michael Myers, UBC clinical professor of psychiatry and author of *Men and Divorce*.

"The abandoned husband tends to isolate himself," said Dr. Myers. "He represses, even suppresses his pain and rage. This type of man can be suicidal and homicidal."

Dr. Myers bases his findings on 20 years of clinical and private practice. He has specialized as a marital and divorce therapist for the past decade.

Men generally have difficulty because they don't allow enough time to grieve a lost relationship, concluded Dr. Myers. He also says the degree of difficulty varies, depending on personality, age, income, religion and ethnic background.

Embarrassment, depression, pride and pressure to be self-reliant often prevent men from seeking professional help, aggravating the situation.

The most tragic consequence of their unwillingness or inability to get help is

violence against themselves or others. More commonly, men will overwork and become substance abusers. They also end up in the doctor's office with physical ailments such as migraine, rheumatoid arthritis and coronary disease.

All too often the connection between illness and divorce is never made, said Dr. Myers.

"Men are an under-served population of people in distress when it comes to divorce," he said. They are experiencing more difficulty than they themselves or mental health professionals realize. We have to learn how to properly diagnose these situations."

Dr. Myers maintains that women are more successful at managing their reactions to divorce because they seek professional help. They also reach out to family and friends for support. "Men just turn off and go into their action-oriented



**Myers**

mode, usually work," said Dr. Myers.

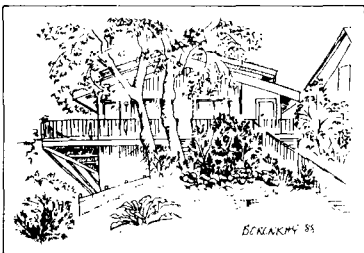
Divorced men remarry sooner and in greater numbers than divorced women. But Dr. Myers believes some men move on before dealing with the previous relationship, carrying their problems over into the new one. The result is likely to be another failed attempt at intimacy.

Dr. Myers feels that preventative measures can be taken to help avert divorce or at least the distress that accompanies it.

He advocates more public education about marriage and divorce, marriage preparation courses and government funding to expand these services.

Dr. Myers also cites the need for societal changes where people could openly discuss divorce without fear of being labelled failures. Finally, the practice of divorce mediation and divorce therapy should continue to encourage discussion and negotiation between divorcing couples.

He concludes that "for some time yet, we will need to educate men about their roles and responsibilities as they pass through their divorces and move into new relationships."



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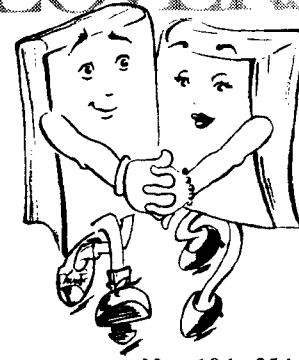


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### Letters to the editor

## Volunteers found as a result of story in UBC Reports

Editor:

Many thanks for the item in the September issue of UBC Reports re: our need for volunteer readers.

The article generated over 80 calls. We scheduled over 60 auditions and "signed on" about 22 volunteers who passed our auditions and have the "right stuff" for reading textbooks for the visually impaired.

The UBC Reports item also got us a guest spot on the CBC afternoon program, where we generated some more interest and we got two CBC "on air" people — Paul Grant and Katherine Banwell — as occasional volunteer readers.

Paul E. Thiele  
Head, Crane Library

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# The purpose of university

By WALTER STEWART

*(The author is an award-winning journalist who served as the visiting Max Bell professor of journalism at the University of Regina in 1987-88. The following is reprinted from the Spring, 1989 edition of The Third Degree, The University of Regina alumni magazine.)*

Once interviewed a man who had taken a university degree in fly-tying. When he told me this, I thought I had struck a new form of perversion, one in which a gang of students sat around with nets, caught flies, and tied their little legs together for purposes too bestial to mention.

But no, he meant that he had earned his sheepskin in one of the athletic programs at a university in Florida somewhere, and his speciality was in the design and construction of lures for fish. You tie them, apparently; something I didn't know. This gent was in training to open a sporting-goods store, you see, so it was no mere idle whim that propelled him into higher education.

I told him he must feel no kind of kinship with Charlotte Perkins Stetson Gilman, and he said "Who or what is that?" and I said that she was, had been, a poetess, and had four names to prove it, and that she once wrote a poem containing the lines, "I do not want to be a fly! I want to be a worm." The gent said he didn't know much about poets, but if I would like to see him tie a Green Goblet, one of his own inventions, he could do so. We parted with that feeling of mutual superiority which Don Marquis reminds us is the true disederata of all social congress.

Nowadays, of course, I would come away, instead, with the feeling that I had been bested. The gent knew what a university is for; it is where you learn something you can turn into cash. If you cannot turn it into cash, it lacks "relevance."

This is an argument that has been going on for a long time, the debate between those who believe that learning is something to be embraced for itself, and those who believe that schools, including the universities, are training grounds, places which are, or ought to be, trade schools. In the middle has always been the great mass who think that part of the university - the School of Journalism here, to take an example - may be primarily trade schools, but that the university itself does, and ought to, support a great deal of research, teaching and learning that has no other purpose than itself. No other purpose - why

not say it out loud? - than pleasure.

This long-standing, three-way debate seems now to be just over. The trade school gang have won. We used to call them Yahoos, when I went to university, but I don't suppose many people read Jonathan Swift anymore.

Universities everywhere are under siege. "He who enters a university," wrote James Bryant Conant, "walks on hallowed ground." Substitute for "hallowed" the word "mortgaged," and you are nearer the truth.

University budgets lie in ruins, and when they try to defend themselves against the onslaught, they meet the perfectly valid complaint that they don't deserve any more money. They are not turning out enough of the kind of university graduate the marketplace wants to see - viz., computer-trained, management-oriented, buttoned-down and brimming with marketable skills.

I don't mind it when the tycoons keep calling for more job-training in our institutions of higher learning; it is a natural thing for them to do. Why spend money in the corporation inculcating skills if you can get the universities to do the job for you? No, what I mind is when the universities go along with the gag, when they begin to scuff their feet in the sand and say, well, gee, boss, you make a good point there, and we will certainly have to see what we can do about it the next time we're reviewing the curriculum.

## Northrop Frye never knowingly inculcated a marketable skill in anyone.

The finest teacher I every ran across in university was Northrop Frye, from whom I took courses in English at the University of Toronto. I think I can safely say that in all his decades of teaching, Northrop Frye never knowingly inculcated a marketable skill in anyone. (Oh, we had a guy in my second year who could swallow a whole apple; he would take it into his mouth and hold it there for about 30 seconds, and then chew it up, core and all, but he didn't learn this at the feet of Northrop Frye; he was naturally talented.)

Well, forget Northrop Frye. Or, worse still, make the argument before the high lords of the purse string that it is worthwhile to have people like Northrop Frye around because a command of English is helpful in the marketplace. Maybe it is, but that has nothing to do with why we ought to study English, and Latin, and a thousand other useless subjects; we ought to study, and research and learn, because it gives us pleasure, and makes us a civil society.

Trade schools are necessary and

proper elements of any educational system; universities are a luxury we cannot afford to do without.

It would make my heart sing, some autumn, when an ardent politician undertakes, at budget time, to attack our institutions of higher learning because they waste so much time and money and effort, to hear someone from the university side, instead of pointing to the great job the boys over in engineering are doing, and hey, how about our medical school? - rear back and admit that, yes, by golly, a great deal of what goes on in the university is pointless. Not useless, but pointless.

Professors do a lot of the things they do, this brave soul might say, because they want to. They enjoy it. They take perfectly good money from the taxpayer and they spend it on Milton, for Pete's sake, who I am pretty sure is dead, and they spend it studying cellular structures and poking around the innards of the universe, and they do just about what they want to, the swine, and then demand a raise. God bless them, he would finish.

## Codswollop based on very shoddy research.

But no, I hope for too much. Instead, the university spokesperson will point out that studying cellular structures may lead to a cure for cancer, and poking around the universe has already helped us develop Corningware, and as for Milton, well, where is the next generation of poets to come from for the beer jingles, if we don't study Milton?

The universities are giving up, and the outward and visible sign of this is the way they will glom onto money from anybody who wants to hand it out. Remember Phillippe Rushton? He is the professor of psychology at the University of Western Ontario who created a fuss when he released a paper purporting to show that the human species was divided into but three races - black, white and oriental - that they were produced in that order, and that the latest model off the assembly line, the oriental, was smarter and gentler than the white, who, in turn, was a cut above the black.

This codswollop turned out to be based on some very shoddy research, and there were cries for Rushton's dismissal from the university. This was refused, and quite properly so, on the grounds of academic freedom, which necessarily includes the right, so amply exercised by Phillippe Rushton, to be a fathead.

But what got lost in all this, while the university was taking such a strong stand for academic freedom, was that it had already sold off that freedom in the Rushton case long before. Rushton's

research was partly paid for by a series of grants, totally \$207,000 during the years 1984-87, from the Pioneer Fund, an American foundation started by, and devoted to the ideals of a racial purity nut, now deceased, who made a big hit with the Nazis for his views. The fund has cleaned up its act somewhat, but is still a lobby group today, pushing for restrictive immigration policies in the United States.

## Scholars ought to be able to work free of the influence . . . of outsiders.

What in tunket is the University of Western Ontario doing taking money from an outfit like this? If there is not a direct pressure to produce amenable results, there is at least the appearance of such pressure. The whole point of academic freedom is that scholars ought to be able to work free of the influence, threats or pressure of outsiders.

But that cuts both ways; in most universities, the danger from outside pressure is not hostile, but friendly; it comes in the form of a fat donation, or a grant, tied to a specific program. This is most obvious when the money comes from the defence contractors and goes to the lads working on rockets at MIT, but it is just as wrong, dumb and dangerous in the Psychology Department at the UWO.

The prostitution of the universities, I would argue, is an inevitable consequence of the notion that they ought to meet the "test of the marketplace." The test is most easily met by turning out the kind of work that draws the kind of grants that will allow the department to meet its budget, despite the slashing inroads of provincial bureaucrats. And, with a few and rare exceptions, those are not the kinds of grants universities ought to be accepting, and not the kind of work they out to be doing.

Universities can bow to the inevitable, and set up some sort of auction system for worthy donors - this might lead to courses in bomb-tossing, sponsored by the Irish Republican Army, and a seminar entitled, "Terrorism for Fun and Profit, an Overview," subsidized by the PLO, but no scheme is perfect. Or, they can stand their ground for once, and argue the virtues of pointlessness. What they cannot successfully do is to play the marketplace game when they are soliciting grants, and then make the pitch for academic freedom.

They would be better off teaching people to tie flies.