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Universities, industry get more NSERC \$\$\$



Scott Fraser



Stephen Crowley



Martin Gleave

Winner of \$3,500 Sherwood Lett
Memorial Scholarship this year is 3rdyear Commerce student Scott Fraser of
Richmond, who hopes to work in
Japan for a period after graduation.
The Amy E. Sauder Scholarship,
worth \$2,750, goes to Stephen Crowley
of West Vancouver, who is in 2nd year
Dentistry. Martin Gleave, who won the
Bobby Gaul Trophy as UBC's
outstanding male athlete last year, has
now been awarded the \$1,850 Harry
Logan Scholarship. He's from
Vancouver and is in 4th year
Medicine.

Closer research co-operation between industry and university is the aim of an increase in research programs of the Natural Sciences and Engineering Research Council of Canada.

NSERC is the largest single source of research funding in Canada. More than one-third of the \$47 million UBC spent on research last year came from NSERC in the form of 613 different awards to faculty members.

NSERC president Gordon MacNabb says he expects to be able to make awards under the expanded initiatives during this fiscal year ending March 31.

Among the new activities of the council: Industrial Research Professorships to provide support to a senior research professor and possibly a number of research associates for five to 10 years;

Co-operative Facilities and Equipment to provide financial incentives for companies to share with or provide new equipment to university researchers;

Industrial Associate Memberships to help disseminate research information between universities and industry through research and development seminars, publications and access to consulting and other services;

Co-operative Research: an expansion of the existing Project Research Applicable in Industry (PRAI) program;

Workshops and Seminars. A program to help defray costs.

Service Workshops. To defray some of the costs involved in bringing together a team consisting of a number of faculty, students and company representatives to engage in analysis of a particular problem presented by the company;

Visiting Industrial Professorships. A contribution to the salary and other expenses so that an industrial researcher can spend time at a university.

In addition to established and new programs, NSERC welcomes any suggestion for co-operative research "that provides a suitable challenge within the University research environment and which entails a reasonable industrial contribution."

The contribution can be in the form of money, researchers, or equipment.

NSÉRC has also established a university industry task force as part of its expanded activities.

The council was also the largest single source of outside scholarship support for UBC graduate students last year, a total of more than \$2 million for 180 students.

Forty-two UBC researchers have received strategic grants from NSERC worth about

\$2.4 million this year.

About \$1.4 million of that amount were renewed grants for 24 scientists.

Approximately \$1 million in new grants was shared by 18 UBC faculty members.

The largest single grant was a renewal of \$153,700 to Prof. Jochen Meyer of the physics department. His work concerns some of the problems associated with containing plasma — super-heated gas sometimes referred to as the fourth state of matter — within a sphere of laser beams.

For more detailed information, faculty members should contact the Office of Research Services.



Senator Jack Austin escorts Premier Zhao Ziyang of China to lunch at MacKenzie House. Chinese delegation of 89 government officials and journalists spent the afternoon of Jan. 21 at UBC and visited the Museum of Anthropology. Food services catered to the official luncheon which featured beef tenderloin.

Tuition fees go up 33 per cent

The University has raised student tuition fees and imposed enrolment restrictions to help balance the UBC budget.

The Senate voted Jan. 18 to limit firstyear enrolment in September to approximately 3,250 students, 447 fewer than were admitted in September of 1983. Criterion for admission will be a student's academic record in Grades 11 and 12.

On Jan. 19, the UBC Board of Governors approved increases in student tuition fees for 1984-85 averaging 33 per

This is expected to bring in about \$7 million, but \$1 million will be returned to students in the form of financial aid.

The Board also established differential fees for foreign undergraduate students who enrol at UBC for the first time in

1984-85. They will pay 1.5 times the regular fee. The 256 undergraduate international students already enrolled at UBC will not be affected for the next two fiscal years.

On the enrolment limitation, the Senate Admissions Committee reported that "without adequate funding the University can no longer admit all applicants to first year who meet the minimum entrance requirements and at the same time maintain the quality of education that has been provided in the past."

New Tuition Fees, Page 2

NEW TUITION FEES

SCHEDULE OF TUITION FEES, 1984/85

Winter Session	Present	New	% Change
AGRICULTURAL SCIENCES B.Sc. (Agriculture)			
lst Year Other years	\$1035 1102	\$1400 1500 ¹	35.27% 36.12
B.L.A. lst year	1035	1400	35.27
Other years	1102	1500	36.12
APPLIED SCIENCE Architecture	1208	1500	24.17
Engineering Nursing - 1st year	1208 930	1500 1300 ³	24.17 39.78
Other years	998	1390 ³	39.28
ARTS B.A., B.F.A.,			
B.H.E. lst year	882	$77/\mathrm{unit}^2$	30.95^{6}
Other years	919 919	77/unit² 77/unit²	25.68^{6} 25.68^{6}
Diploma Programs Librarianship	1208	1208^{3}	0. 23.02
Music Social Work	1260	1550	
3rd and 4th years 5th year (concentrated)	945 1323	1300^3 1800^3	37.57 36.05
COMMERCE AND BUSINESS			
ADMINISTRATION 1st year Other years (R. Comm.)	998	77/unit² 77/unit²	15.73 ⁶
Other years (B.Comm.) Licentiate in Accounting	1155 1155	77/unit ² 77/unit ²	$\frac{20.006}{20.006}$
DENTISTRY D.M.D.	1523	2000	31.32
Dental Hygiene	1129 2000	1550 2000	37.29 0.
Diploma Programs EDUCATION	2000	2000	0.
B.Ed 1st year	882 919	$77/\mathrm{unit}^2$ $77/\mathrm{unit}^2$	$\frac{30.95^6}{25.68^6}$
Other years Diploma and Teacher Training	919 919 1436	77/unit ² 77/unit ² 77/unit ²	25.68° 25.68° 28.69°
Industrial Education B.P.E. 1st year	945	$77/unit^2$	34.446
Other years B.R.E 1st year	972 945	77/unit ² 77/unit ²	30.71^{6} 34.44^{6}
Other years FORESTRY	972 1103	77/unit ² 1500 ¹	30.71 ⁶ 35.99
LAW	1155	1550	34.20
MEDICINE	.100	1000	01.20
M.D. Residents and Interns	1523 105	2000 145	31.32 38.10
Rehabilitation Medicine 2nd and 3rd years	1024	1400	36.72
4th year B.M.L.Sc.	1034 1155	. 1410 1550	36.36 34.20
PHARMACEUTICAL SCIENCES	1155	1550	34.20
SCIENCE - 1st year	882	$77/\mathrm{unit}^2$	30.956
Others	919	77/unit ²	25.68^{6}
Unclassified	\$ 882	\$ 77/unit ²	30.95^{6}
GRADUATE STUDIES			
Doctoral Degrees 1st year	1344	1750	30.21
2nd year 3rd year	1006 676	1307 876	29.92 29.59
Each subsequent registration	150	250	66.67
Masters Degrees lst year	1344	1750	30.21
2nd year Each subsequent registration	676 150	876 250	29.59 66.67
12 month fee	1344	1750	30.21
18 month fee	1682	2188	30.08
Candidates paying on a unit basis - per unit	136.50	180	31.86
Masters Degree and Diploma in Dentistry			
Dentistry Each year (3 years)	2000	2000 .	0.
Dentistry	2000 362 150	2000 . 362 250	0. 0. 66.67
Dentistry Each year (3 years) Each subsequent registration -Clinical Studies ^a -Thesis	362 150	362	0.
Dentistry Each year (3 years) Each subsequent registration -Clinical Studies ^a	362 150	362	0.

Faculty members wishing more information about the following research grants should consult the Research Administration Grant Deadlines circular which is available in departmental and faculty offices. If further information is required, call 228-3652 (external grants) or 228-5583 (internal grants).

Grant Application Deadlines: March 1984

- Alberta Heritage Fdn. for Medical Research
- Medical Research Fellowships (1) Alberta Oil Sands Technology & Research Authority Research Contract (1)
- American Chemical Society: PRF
- Research Type AC (1)
- Atlantic Salmon Federation
- Fellowship (15)
- AUCC: International Relations Poland/UNESCO Copernicus Fellowships (1) Poland/UNESCO Fellowships in Slavonic Studies
- B.C. Health Care Research Fdn Development & Training Fellowship (1) Research (1)
- Research Scholar Award (1) • Banting Research Foundation
- Research (1)
- Bell, Max Foundation Research (1)
- Bronfman Foundation
- Seagram Business Faculty Award (15)
 Canada Mortgage & Housing Corp.
 Research Contract Type B (over \$3500) (1)
- Canadian Foundation for Ileitis & Colitis Research (30)
- Canadian Heart Foundation
- Symposia (1)
 Damon Runyon-Walter Winchell Cancer Fund Cancer-directed Fellowship (15)
- Postdoctoral Fellowship Grant (15) • Dept. Education, Dublin, Ireland Fellowship in Science, Engineering & Architecture (31)
- Donner Canadian Foundation Program and Research (1)

- Fitness & Amateur Sport: Sport Canada Applied Sport Research (31)
- Sport Science Support Program (31) • Heighway Fund (Florence & George)
- Research (15)
- Huntington's Chorea Fdn. (U.S.) Research (1)
- International Development Research Centre Education Research Awards Program (1)
- Juvenile Diabetes Fdn. (US)
- Koerner, Leon & Thea Foundation
- Foundation Grants (15) • March of Dimes Birth Defects Fdn. (US)
- Intensive Course in Maternal Nutrition (1) National Cancer Institute of Canada
- Terry Fox Special Intitiatives Program (15)
- National Inst. of Education (US) NIE Research Grants (25)
- North Atlantic Treaty Organization - International Collaborative Research (31)
- NSERC: Intl. Relations Division CIDA/NSERC Research Associates: LDC's (15)
- Exch: Braz., Czech, Jap, Bulg, UK, Suisse, Ger (15) International Collaborative Research (15)
- Internationl Scientific Exchange Awards (15)
- NSERC-Royal Society Exchange (15)
- Science Council of B.C.
- BC Science & Engineering Awards (31)
 Scottish Rite Schizophrenia Prog.
- Research Grant (1)
- SSHRC: Intl. Relations Division Travel to Int'l Scholarly Conferences (1)
- SSHRC: Research Communic. Div.
- Aid to Occasional Conferences (30)
 U.S. Dept. of Health, Educ. & Welfare
- NIH Grants to Foreign Institutions (1)
- University of British Columbia
 UBC: Biely Faculty Research Prize (7)
- University of Cambridge Visiting Fellowship in Commonwealth Studies
- Von Humboldt Fdn. (W. Germany)
- Research Fellowship (1)
 Woodward's Fdn. (Mr. & Mrs. P.A.) Foundation Grants (1)

agency.

Note: All external agency grant applications must be signed by the Head, Dean, and Dr. R.D. Spratley. Applicant is responsible for sending application to

Spring and Summer Sessions			
3 unit course	219	2494	13.70
2 unit course	146	1664	13.70
1½ unit course	110	1251	13.64
1 unit course	73	834	13.70
½ unit course	37	424	13.51
Change of course	10	10	0.
Special Course Fees			
Biology 323	263	292	11.03
Chinese 180	664	737	11.00
Chinese 280	664	737	11.00
Japanense 180	664	737	11.00
Japanese 280	664	737	11.00
Music Education 400	78	87	11.54
Guided Independent Study			
3 unit course	219	249^{4}	13.70
Refunds (i) within 30 days	186	212	13.98
(ii) after 30 days	0	0	
Plus non-refundable materials fee	of \$15 per G.I.S.	. course	

^aRefund \$181 if work completed in first term.

normal load fees for programs on a per-credit-unit basis are:

Science

¹Third-year Agricultural Science students will be assessed a field trip fee of \$200. Forestry students taking either Forestry 351 or Forestry 451 will be assessed a field trip fee of \$350 per course in 1984/85.

2Fees will be charged on a per-credit-unit basis of \$77 beginning April 1, 1984. Typical

1984/85 Arts (BA, BFA, BHE) **\$1155** lst yr. Other years 1155 Commerce lst yr. 1155 Other years 1386 1386 Licentiate 1155 Education (B.Ed.) lst yr. Other years 1155 Diploma & Teacher Training 1155 Industrial Education 1848 1270.50 (BPE/BRE) lst yr. 1270.50 Other years

1155

1155

³Fees will be charged on a per-credit-unit basis beginning April 1, 1985.

1st yr.

Other years

⁴Fees will be charged on a per-credit-unit basis of \$83.

5Part-time students not in per-unit-fee programs will be assessed on the basis of a percentage of the normal full program fee.
6Percentage changes have been calculated assuming a normal program load in 1984/85.

David Thompson closing

The David Thompson University Centre in Nelson, operated jointly by the University of Victoria and Selkirk College of Castlegar, will close permanently as of May 1, 1984, after a life of seven years less a month.

"It is no longer possible to fund the centre, with its limited enrolment and relatively high costs," Education Minister Jack Heinrich said on Jan. 4 when he announced the closure.

The closure is expected to save the government about \$2.7 million a year.

This year there are 75 UVic students taking third and four-year courses at the centre, and approximately another 400 are Selkirk students.

More than 90 faculty and support staff will lose their jobs, including 12 sessional faculty with University of Victoria appointments.

Approximately 50 fulltime students at the centre who still have a year to go on two-year career programs will get government assistance to enable them to complete their programs elsewhere. No such assurances have been given the remaining students.

The provincial government bought the campus and other assets of the former Notre Dame University in Nelson on June 1, 1977, and renamed the campus the David Thompson University Centre.

It was to have been the first of a number of advanced educational centres for the province, for the delivery of senior academic and professional programs. The centres were going to be phased in as rapidly as possible, the government said

B.C. Research hosts seminar

A seminar on Technology Protection and Transfer will be given Feb. 16 at B.C. Research, 3650 Wesbrook Mall, by Canadian Patents and Development Ltd., starting at 2 p.m.

Canadian Patents and Development is a federal crown corporation which reports through Industry, Trade and Commerce. Its function is to receive technology and exploit it commercially.

University faculty and staff are invited.

UNIVERSITIES AT RISK: AN UNCERTAIN FUTURE

Is tenure essential to academic freedom? Should the provincial government play a role in shaping the university - and does it have a vision of the university's mission?

These and other questions will be explored in a series of discussions organized by the Education Committee of the SFU Faculty Association. Called Universities at Risk: An Uncertain Future, this series begins Thursday, Feb. 2, and runs five Thursdays, through March 1. Sessions will be held from 11:30 - 1:30, in B9200

Speakers from UBC include Prof. Dennis Pavlich (Law) and Prof. Gideon Rosenbluth (Economics).

For further information, contact Kelleen Toohey at 291-4397 or the SFU Faculty Association at 291-4584.

Grad Centre looks for business

The Graduate Student Centre has extended an open invitation to all faculty, administrative and support staff to use the centre's "dramatically improved" food and beverage service.

The Grad Centre is open Monday

Nodwell heads Science Council

Roy Nodwell, who retired last year as head of the UBC Department of Physics, has been appointed chairman of the Science Council of B.C.

Dr. Nodwell, a long-standing member of B.C.'s science community, has been a director of the council since 1981.

Dr. Nodwell is chairman of the board and a working member of TIR Systems Ltd., an innovative new B.C. company which designed and now produces prism pipes for transporting light.

Dr. Nodwell's term as chairman of the Science Council runs from Jan. 20, 1984,

The council advises the provincial government on matters of science and research policy and is responsible for awarding approximately \$5 million each year to applied research projects in the

through Friday, with lunch available from noon to 1:30 p.m. and dinner from 5 p.m. to 6:30 p.m. The Fireside Lounge is open from 5 p.m. to midnight.

Says the centre's executive director, Jim Shea:

"The increasingly wide range of menu selections such as stuffed leg of pork, sole Florentine, seafood Newburg and roast baron of beef, and prices of \$3.50 and lower, make the Graduate Student Centre cafeteria the 'in' place to dine at on campus.

"The Fireside Lounge, the coziest drinking spot on campus, has an exciting new menu, reflecting a wide range of flavorful potables and special coffees."

Faculty, administrative and support staff, although they may use the facilities as non-members, are eligible to join the Grad Centre, at \$40 a year. Members receive a continuing 10-per-cent discount on food.

UBC lamp acclaimed

A new type of lamp developed at UBC has been chosen as one of the 100 most significant technological advances of 1983 by the magazine Industrial Research and Development.

The "Vortek arc-lamp" was developed in UBC's physics department and is now being manufactured and distributed by Vortek Industries of Vancouver, a new company formed as a result of the development.

The high-intensity lamp may also be used to illuminate the waterfront portion of Expo 86.

Med school students tops in Canada

Successful applicants to UBC's medical school have higher scores in an international admission test than students admitted to any other Canadian medical

And in North America, they are surpassed only by students admitted to medical schools at Harvard and Stanford Universities.

The test is the Medical College Admission Test written by all students applying to medical schools in North America. Such tests are standard entrance requirements to a number of professional schools such as medicine, law and business administration.

The latest figures compare results of applicants who wrote the exam between April, 1979 and September, 1982.

UBC applicants have scored consistently high in the tests since the Faculty of Medicine admitted its first class in 1950.

A reminder to graduands

A reminder to students who expect to graduate this May or November that 'Application for Graduation' cards must be returned to Mrs. Donna Anderson of the registrar's office by Feb. 15 (for May graduation) or Sept. 15 (for graduation in November).

Cards have been sent by mail to students in the following degree programs: BA, BFA, BPE, BRE, BMus, BComm, BEd (elementary, secondary and special ed), BSc and LicAcct.

Graduating students in the programs listed above who have not received a card should confirm with the registrar's office (228-4455) that their local mailing address

Students in their final year of all other degree programs can get application cards from the office of the dean of their faculty. Students enrolled in Graduate Studies can get them from their graduate advisor or departmental secretary.

Calendar Deadlines

For events in the weeks of Feb. 19 and 26, material must be submitted not later than 4 p.m. on Thursday, Feb. 9. Send notices to Information Services, 6328 Memorial Road (Old Administration Building). For further information, call 228-3131.

The Vancouver Institute.



Saturday, Feb. 4 Canada and the Pacific Potential. Thomas Arai, president, Tokyu Hotels International, and chairman, Systems

Incorporated. Saturday, Feb. 11 Buddhism: Compassion and Wisdom, Prof. Jeffrey Hopkins,

International

Religious Studies, UBC. Both lectures in Lecture Hall 2 of the Woodward Instructional Resources Centre at 8:15 p.m.

MONDAY, FEB. 6

Immunology Group Seminar.

The Pathology of Graft Versus Host Disease. Dr. Keith Sullivan, Fred Hutchinson Cancer Research Centre, Seattle. Pathology Seminar Room, Heather Pavilion, VGH. 9 a.m.

Time Management Workshop.

The Office for Women Students offers a onesession workshop on Time Management for Women. Group size limited. Pre-registration necessary in Brock 203. Room 106A, Brock Hall. 12:30 p.m.

Mechanical Engineering Seminar. Why Tokamaks Leak. Dr. L.C. Woods, Oxford University. Room 1202, Civil and Mechanical Engineering Building, 3:30 p.m.

Chemical Engineering Seminar. Modern Concept of Thermal Analysis. Dr. K.C. Teo, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 3:30 p.m.

Applied Mathematics & Statistics Seminar.

Summation of Series Using Baker-Gammel Approximants. Prof. John Paine, Mathematics, SFU. Room 229, Mathematics Building. 3:45 p.m.

Biochemical Discussion Group Seminar.

Analysis of Lipid-Binding Proteins in the Small Intestine using Recumbent DNA Techniques. Dr. Jeff Gordon, Washington University School of Medicine. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Immunology Group Seminar.

Experimental Aspects of Graft Versus Host Disease. Dr. Keith Sullivan, Fred Hutchinson Cancer Research Centre, Seattle, Salons B&C,

Faculty Club. 8 p.m. Student Recital.

Howard Bashaw, composer. Recital Hall, Music Building, 8 p.m.

TUESDAY, FEB. 7

Botany Seminar.

Plant Pathosystems. R. Robinson, Biological Science, SFU. Room 3219, Biological Sciences Building, 12:30 p.m.

Forestry Seminar.

China Revisited: Trends in Chinese Forestry. Dr. O. Sziklai, Forestry, UBC. Room 166, MacMillan Building. 12:30 p.m.

Oceanography Seminar.

The Arctic Ocean. Dr. L. Lewis, Institute of Ocean Sciences, Sidney, B.C. Room 1465, Biological Sciences Building. 3 p.m.

Modern Chemistry Lecture.

1983 - 84 Merck Frosst Lecture. Tumor Promotion: The Search for Pharmacophores: Synthetic Expertise and the Mode of Action. Prof. Paul A. Wender, Chemistry, Stanford University. Room 250, Chemistry Building.

Immunology Group Seminar.

Induction of CTL Responses by Antigen-Specific Helper Factors. Dr. Linda Pilarski, Immunology, University of Alberta. Room 201, Wesbrook Building. 4 p.m.

International House Film Series

The Land is Our Culture, Our Land is Our Life and Circle of the Sun. Free admission. International House. 7:30 p.m.

WEDNESDAY, FEB. 8

Pharmacology & Therapeutics Seminar.

The Mechanism of Active Calcium Transport in Human Erythrocytes: Regulation of the Ca2+ Pump by Calmodulin and Related Anions. Dr. B.D. Roufogalis, Pharmaceutical Sciences, UBC. Room 317, Block C, Medical Sciences Building, 12 noon.

Poetry Reading.
Ron Butlin, Scottish Writer-in-Residence in Canada, will read from his work. Room D280. Buchanan Building. Sponsored by the Canada Council and the English Department. 12:30 p.m.

Noon-Hour Concert.

Winterreise by Schubert. James Fankhauser, tenor and Philip Tillotson, piano. Recital Hall, Music Building. 12:30 p.m.

Discussion/Seminar.

Stress Management for Women Students, Learn to recognize the sources and signs of stress. Identify and practise stress reduction methods fitted to individual students' situations. Preregister in Brock 203. B334, Buchanan Building, 12:80 p.m.

Continued on Page 4

12:30 p.m.

Geography Colloquium. Trends in Environmental Planning and Assessment in B.C. J. O'Riordan, director, planning and assessment, Ministry of Environment. Room 201, Geography Building.

Applied Mathematics & Statistics Lecture.

Using Bayes Theorem to Estimate Flood Probabilities. Dr. Denis Russell, Civil Engineering, UBC. Room 223, Henry Angus Building. 3:30 p.m.

Economic Theory Workshop. Expected Utility Without Transitivity. John Fountain. Brock 351. 4 p.m.

Institute of Animal Resource Ecology Seminar.

Assessments of Exploited Fish and Marine Mammal Stocks — Why They're Usually
Wrong, Dr. Justin Cooke, Institute of Animal
Resource Ecology, UBC. Room 2449, Biological
Sciences Building, 4:30 p.m.

Comparative Literature Colloquia. New Pots for Old: The Old French Jeu de la Feuillee and the Medieval Model of Intertextuality. Gordon McGregor, French, UBC. Penthouse, Buchanan Building. 4:30 p.m. SUB Films.

The Right Stuff. Continues until Feb. 12. Auditorium. Student Union Building. 7:30 p.m.

THURSDAY, FEB. 9

Film/Discussion.

I Want to be an Engineer. Encourages women to consider engineering as a career. Sponsored by the Office for Women Students with the Support of the Leon & Thea Koerner Foundation. Pre-registration necessary. Room 203, Brock Hall. 12:30 p.m.

Hillel House.

Holocaust Awareness Day. Prof. Irving Abella, History, York University. Sponsored by Jewish Students' Network, Hillel, Co-operative Christian Campus Ministry, UBC Faculty members. For further information call 224-4748 or 224-2512. Lecture Hall 100, Scarfe Education Building. 12:30 p.m.

Music Recital.

The University of Western Ontario Faculty of Music Singers. Directed by Deral Johnson. Recital Hall, Music Building. 12:30 p.m.

UBC Symphony Orchestra.

Midori Koga, piano soloist, directed by Glen Fast. Old Auditorium. 12:30 p.m.

Institute of Asian Research.

Various Aspects of Asian Civilization. Films (for film titles, check postings around campus). Admission Free. Auditorium. Asian Center.

Condensed Matter Seminar.

Magnetism of Fine Particles. Derek Walton, McMaster University. Room 318, Hennings Building, 2:30 p.m.

Physics Colloquium.

Weak Interactions. D. Bryman, TRIUMF, UBC. Room 201, Hennings Building. 4 p.m.

CUSO-UBC Development Education Series.

World Development Awareness and Action. Tonight's Theme is Forestry & Agriculture – A Perspective Look at the Third World. Free Admission. For further information call 228-4886 (a.m.). International House. 7:30 p.m.

UBC Wind Symphony.

Music of Ives, Broughton, Strauss and Respighi. Dennis Miller, tuba soloist. Directed by Martin Berinbaum, Old Auditorium, 8:00 p.m.

FRIDAY, FEB. 10

UBC Wind Symphony.

Music of Ives, Broughton, Strauss and Respighi. Dennis Miller, tuba soloist. Directed by Martin Berinbaum. Old Auditorium. 12:30 p.m.

Geography Lecture.

Geography and Economic Development. Dr. Harry Swain, deputy director, Ministry of State-for Economic Development, Ottawa. Room 214, Geography Building. 12:30 p.m.

Geological Colloquia.

Stardust Memories. Dr. H. Wood, Harvard Smithsonian Center for Astrophysics. Associated Committee on Meteorites Distinguished Lecturer, Room 330A, Geological Sciences Building. 12:30 p.m.

Pharmaceutical Sciences Seminar.

Interactions between Alkaline Earth Cations and Adenosine Derivatives at Motor Nerve Endings. Dr. E.M. Silinsky, Pharmacology, Northwestern University, Chicago. Room 160, Cunningham Building. 12:30 p.m.

Mammalian Parroviruses. Dr. C. Astell. Parentcraft Room, Grace Hospital. 1 p.m.

Medical Genetics Seminar.

Women's Gymnastics. UBC vs. Brigham Young. Gymnastics Gym. Unit II, Osborne Physical Education Centre.

Finance Workshop.

Normality, Solvency and Portfolio Choice. Prof. Robert Grauer, SFU. Penthouse, Henry Angus Building. 3:30 p.m.

Geological Colloquia.

Geology of the Hemlo Gold Deposits. Dr. R. Valiant, Lac Minerals, Toronto. CIM Distinguished Lecturer. Room 330A, Geological Sciences Building. 3:30 p.m.

Pharmaceutical Sciences Seminar.

The Contractile State of Relaxed Myocardium. Dr. Edward G. Lakatta, chief, Cardiovascular Section, National Institute on Aging, Gerontology Research Center, Baltimore. Lecture Hall 1, Woodward Instructional Resources Centre. 3:30 p.m.

Finance Workshop.

Normality, Solvency and Portfolio Choice. Prof. Robert Grauer, SFU. Penthouse, Angus Building, 3:30 p.m.

International House.

Pot-Luck Dinner. Please bring a main dish, enough for several people. Informal get together afterwards. For reservations phone, 228-5021. Lower Lounge, International House. 6:30 p.m.

Women's Basketball.

UBC vs. University of Calgary. War Memorial Gym. 6:45 p.m.

Hockey.

UBC vs. Alberta Golden Bears. Thunderbird Winter Sports Centre. 8 p.m.

Men's Basketball.

UBC vs. Lethbridge Pronghorns. War Memorial Gym. 8:30 p.m.

SATURDAY, FEB. 11

Financial Planning Seminar.

Making the Most of Your Money. Tony Hepburn, president, Vancouver Stock Exchange; Jim Rogers, president, James E. Rogers and Co.; and Prof. Guy Dutton, Chemistry, UBC. Lecture Hall 6, Woodward Instructional Resources Centre. 9:30 a.m

Ballet UBC Jazz Tap Workshop.

Two Day Beginner/Intermediate Tap Workshop. Bonnie Lee, Instructor. Free admission for Ballet UBC Jazz members, \$5 fee for non-members. Room 207/209, Student Union Building. 1:00 p.m.

Women's Basketball.

UBC vs. University of Lethbridge. War Memorial Gym. 6:45 p.m.

Hockey.

UBC vs. Alberta Golden Bears. Thunderbird Winter Sports Centre. 8 p.m.

Men's Basketball.

UBC vs. Calgary Dinosaurs. War Memorial Gym. 8:30 p.m

SUNDAY, FEB. 12

Ballet UBC Jazz Tap Workshop.

Two Day Beginner/Intermediate Tap Workshop. Bonnie Lee, Instructor. Free admission for Ballet UBC Jazz members. \$5 fee for non-members. SUB Ballroom. 1 p.m.

UBC Symphony Orchestra.

Music of Weber, Schumann, and Shostakovich. Gerald Fast and Midori Koga. Old Auditorium.

Vancouver Society for Early Music.

Music of Medieval France. Sequentia, ensemble from Cologne. Ticket information: 732-1610. Recital Hall, Music Building. 8 p.m.

WEDNESDAY, FEB. 15

Pharmacology & Therapeutics Seminar.

Length Perturbations of Single Skeletal Muscle Fibres: Effect of Stretch vs. Release. Dr. B. Bressler, Anatomy. UBC. Room 317, Block C, Medical Sciences Building. 12 noon.

Noon-Hour Concert.

Student Chamber Group. Recital Hall, Music Building. 12:30 p.m.

Poetry Reading.

Jay Macpherson, Canadian poet and critic will read her poetry. Sponsored by the Canada Council and the English Department. Room D230, Buchanan Building. 12:30 p.m.

English Seminar.

War and Sex in All's Well that Ends Well. Brian Parker, University of Toronto. Room A204, Buchanan Building. 12:30 p.m.

Anatomy Seminar.

Growth Movements during Mammalian Facial Development. Dr. Virginia Diewert, Orthodontics, Dentistry, UBC. Room 37, West End of Basement Floor, Friedman Building. 12:30 p.m.

Applied Mathematics Seminar.

Multidimensional Scaling on Advanced Computer Technology. Dr. Andreas Bujas, Statistics, University of Washington. Room 223, Henry Angus Building. 3:30 p.m.

Geography Colloquium.

Interbasin Water Diversion in the Great Lakes: Past Experience and Future Prospects. C. Day, director, Natural Resources Management, SFU. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar. Ecology and Physiology of Foraging Mode in African Lizards. Dr. Ray Huey, Zoology, University of Washington, Seattle. Room 2449, Biological Sciences Building. 4:30 p.m.

THURSDAY, FEB. 16 Mid-term break. Classes and labs

Psychiatry Lecture.

The Use of Disulphiram Implantation in Alcoholism, Dr. Allan Wilson, Psychiatry, University of Manitoba. Room 2NA/B, Psychiatric Unit, Health Sciences Centre

Hóspital. 9 a.m. Institute of Asian Research.

Various Aspects of Asian Civilization. Films (for film titles, check postings around campus). Free Admission. Auditorium, Asian Center.

Zoology Seminar.

Inle Lake in Burma. Dr. C.C. Lindsey, Institute of Animal Resource Ecology, UBC. Room 2000, Biological Sciences Building. 12:30 p.m.

J.F. McCreary Lectureship Special Presentation.

"Diseases" of Health Sciences Curricula. Dr. Stephen Abrahamson, professor of Medical Education, School of Medicine, and professor of Education, School of Education, University of Southern California. Lecture Hall 4, Woodward Instructional Resources Centre. 1 p.m. SUB Films.

Twilight Zone. Continues until Feb. 19 with shows at 7 and 9:30 p.m. on Friday and Saturday and at 7 p.m. on Sunday. Auditorium, Student Union Building. 7 p.m.

CUSO-UBC Development Series.

World Development Awareness and Action. Tonight's Theme is Women the Hidden Element in Development. Free admission. For further information call, 228-4886 (a.m.). International House 7:30 p.m.

FRIDAY, FEB. 17

Mid-term break. Classes and labs cancelled.

Medical Genetics Seminar.

Mutational Consequences of Chromosomal Domains. Dr. D. Baillie. Parentcraft Room, Grace Hospital. 1 p.m.

Women's Volleyball.

UBC vs. University of Saskatchewan. War Memorial Gym. 6 p.m.

International House.

Club Da Farra. Carnival Do Brazil & Dance. Live Band. Admission is \$7 for I.H. Members & Students. Non-members \$10. Upper and Lower Lounges. International House. 7 p.m.

Men's Volleyball.

UBC vs. Saskatchewan Huskies. War Memorial Gym. 8:30 p.m.

SATURDAY, FEB. 18

Women's Volleyball.

UBC vs. Univeristy of Alberta. War Memorial Gym. 6 p.m.

Men's Volleyball.

UBC vs. Alberta Golden Bears. War Memorial Gym. 8:30 p.m.

Notices . . .

Faculty and Staff Badminton

Club meets in Osborne Centre, Gym B, Tuesdays from 8:30 to 11 p.m. and Fridays from 7:30 to 10:30 p.m. Guests and new members are welcome

Holocaust Awareness Day

Irving Abella will be the guest speaker at a day of talks, discussions and films concerning the Holocaust, on Thursday, Feb. 9. The event is sponsored by the Co-operative Christian Campus Ministry and the North American Jewish Students' Network, and takes place in Lecture Hall 100 of the Scarfe (Education) Building. For details, call 224-2512.

Lost and Found

UBC's Lost and Found is now being administered by the Student Counselling and Resources Centre and is open the following

Monday — 11:30 a.m. to 1:30 p.m.; Tuesday — 9:30 a.m. to 1:30 p.m.; Wednesday — 10:30 a.m. to 1:30 p.m.; Thursday — 11:30 a.m. to 1:30 p.m.; Friday — 10:30 a.m. to 1:30 p.m. The Lost and Found is located in Room 208 of Brock Hall, 228-5751. For emergencies (i.e. car keys and wallets) call S. Ross at 228-4957 if the Lost and Found is closed

Clowns at Museum Snake in the Grass Moving Theatre. Catch these mythical, magical performances by the Museum of Anthropology clowns. All ages enjoy these innovative performers. Free with Museum admission. 2:30 p.m. Sundays through March 11.

Don't Go Hungry

Four food outlets will be closed during mid-term break, Feb. 16 and 17 — Yum Yum's at the Auditorium, Arts 200 (Buchanan Building), EDibles (Education Building) and the Ponder snack bar. The Barn hours are 7:45 a.m. to 3:45 p.m., IRC snack bar 8 a.m. to 3:45 p.m., Bus Stop 7:45 a.m. to 4 p.m. Only change in hours at SUBway is Feb. 16, open 7:30 a.m. to

Indonesian Textiles

On display at the Fine Arts Gallery in the basement of the Main Library is an 83-piece collection of Indonesian textile art. The pieces were collected over the past 12 years, mainly in the field, and range in age from one to six generations. Guest curator is Laurence Moss, curator of Indonesian materials at the San Francisco Crafts and Folk Art Museum. The gallery is open Tuesday through Saturday, 10 a.m. to 5 p.m.

Deadlines Coming Up

Deadline for nominations for the Alumni Award of Distinction, Honorary Life Membership award and Blythe Eagles Volunteer of the Year award is Feb. 10. For further information, call Linda Hall at the Alumni Association, 228-3313.

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