

UBC REPORTS

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\$18m deficit overshadows budget planning

Some hard decisions will face UBC governing bodies and administrators over the next three months as the University prepares for the 1984-85 fiscal year in the shadow of a budgetary shortfall estimated at \$18 million.

The key figures and bodies that will be involved in the budget-planning exercise over the next three months are outlined below.

PRESIDENT K. GEORGE PEDERSEN. As chief executive officer of the University, President Pedersen will have to place before UBC's Board of Governors recommendations aimed at meeting the shortfall. These will be embodied in a

proposed operating budget for the fiscal year beginning on April 1, which must be approved by the Board. He will also seek the advice of the Senate's budget committee.

He will also be involved during the first three months of the 1984 calendar year in the budget-planning exercise that began on Dec. 6 when the president outlined the University's fiscal situation to a meeting of the Joint Faculties.

At that meeting, the president said the University faced a possible reduction in its general operating of 6 per cent, which translated into an estimated shortfall of \$18 million. In his closing remarks, the

president said he was confident that the University would come through the difficult times it faced "at least with the full assurance that we have kept paramount the commitment to excellence for which this University is known."

(The complete text of the document that served as the basis for the president's Dec. 6 remarks to the Joint Faculties appeared in the Dec. 14 edition of *UBC Reports*).

VICE-PRESIDENT ACADEMIC ROBERT SMITH. The budgetary-planning process will be coordinated by Dr. Smith, who will be assisted by faculty members James Hogg of Pathology, A.J. McClean of Law, Edward Piers of

Chemistry and Joan Reynertson of Theatre.

Three days after the Dec. 6 meeting of the Joint Faculties, Dr. Smith memored the deans of UBC's 12 faculties, informing each of them of a target figure in proportion to each faculty's share of the University's general operating budget.

Each dean has been asked to outline how they would propose to reach 50, 100 and 150 per cent of the target figure, and the effect that each of these three amounts would have on their faculty's operations.

Throughout January, Prof. Smith and his advisors will review faculty recommendations. In accordance with an undertaking given by Dr. Pedersen on Dec. 6, two members of each faculty will also meet with Dr. Smith and his committee when each dean's recommendations are considered.

By Jan. 31, Dr. Smith will have recommendations from other UBC vice-presidents, who have also been asked to meet budget targets for the 1984-85 fiscal year.

Feb. 28 has been set as the target date for submission to President Pedersen of a report from Dr. Smith. The report will be accompanied by an integrated set of recommendations from vice-presidential areas.

BOARD OF GOVERNORS. UBC's 15-member Board will hold a special meeting on Jan. 19 to make a decision on tuition-fee levels for 1984-85.

At its regular meeting on Dec. 1, the Board received proposals that will more than double student tuition fees over the next three years and introduce higher tuition fees for foreign undergraduate students for the next two years.

In his Dec. 6 remarks to the Joint Faculties, President Pedersen said tuition-fee income is projected to rise by 33 per cent in 1984-85, 32 per cent in 1985-86 and 29 per cent in 1986-87, for a cumulative increase of 126.5 per cent.

In announcing the fee-increase proposals early in December, President Pedersen emphasized that they had not been framed in the expectation that students would carry the burden of anticipated shortfalls.

A 33 per cent increase in fees for 1984-85 would mean that the anticipated \$18 million shortfall will be reduced by one-third. The balance — some \$12 million — will have to be met through reductions in other areas of expenditure within the University.

SENATE. At its regular meeting scheduled for Jan. 18, UBC's academic parliament will receive a report from its admissions committee on possible enrolment restrictions that will apply to the Faculties of Arts, Science and Education in 1984-85. Notice that the report would be coming forward was given to Senate at its Dec. 14 meeting by admissions committee chairman Dr. Jorgen Dahlie of the Faculty of Education.

At its December meeting, Senate also heard a report from its budget committee, chaired by Prof. Geoffrey Scudder of the zoology department, which included an outline of the 1984-85 budget-planning process.

This Senate committee, which is charged with making recommendations to the president and reporting to Senate on academic planning and priorities as they relate to preparation of the University budget, will receive in early March President Pedersen's recommendations for the 1984-85 budget, which will be based on the report from Vice-President Smith.

At the Senate meeting on March 21, the

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See BUDGET

Zero salary increases seem certain

It now appears virtually certain that there will be no salary increases for any of the employing groups which have been negotiating new agreements with the University in the current fiscal year.

The latest developments in the salary negotiation picture are as follows.

- The executive of the UBC Faculty Association has accepted a recommendation from its salary negotiating team that there be no general salary increase or career advancement adjustments. Faculty Association President Dennis Pavlich of the Faculty of Law said the executive of the association had accepted the recommendation and would in due course recommend that the membership approve the settlement.

- UBC and its largest union, the 1,450-member Canadian Union of Public Employees, Local 116, have signed a memorandum of agreement that provides for a zero per cent salary increase. Results of a mail ballot which has been submitted to CUPE members will be known on Jan. 18.

In its December newsletter to members, the Faculty Association executive said the University's "serious financial situation . . . appeared to leave no reasonable acceptance of a zero salary increase.

The Faculty Association executive accepted the recommendation on two understandings:

- That there will be a strict hiring freeze with exceptions permitted in only the rarest of cases and by special presidential authorization; and

- That the University's settlements with other groups now in negotiation will be on the basis of no scale or incremental step increases.

The agreement with CUPE includes a similar understanding.

The Faculty Association intends to submit the salary-settlement proposal to its some 2,000 members in a mail ballot when it has settled some minor matters related to leave of absence and benefits.

A memorandum of agreement between the University and the 1,100-member Teaching Assistants Union (CUPE local 2278), which is signed for a zero salary increase, was also early in December and is awaiting a ratification vote by the union membership.

Negotiations are continuing, meanwhile, with the 29-member International Union of Operating Engineers.



Dr. William Emery, a professor of oceanography and physics at UBC, checks satellite receiver atop the new Bookstore. He will continue work in remote sensing with a renewed grant for \$66,543 from the Natural Sciences and Engineering Research Council of Canada.

New grants total \$1m

Forty-two UBC researchers have received strategic grants from the Natural Sciences and Engineering Research Council of Canada (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.

Last year 21 researchers won first time

strategic grants worth about \$900,000.

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.

Please turn to Page 2
See STRATEGIC

Record enrolment of 28,317 is 6 per cent ahead of last year

Enrolment at the University of British Columbia is up more than 1,000 students for the 1983-84 winter session, largest single year increase since 1974-75.

The record total this year is 28,317, better than 6 per cent ahead of the 27,309 students a year ago.

The totals are as of Dec. 1, annual reporting date to Statistics Canada.

More than 70 per cent of the increase is in the Faculty of Arts, where enrolment is up 718 students, to 6,787. There are 299 more students in the Faculty of Graduate Studies, and 226 more in the Faculty of Science.

Some 77 per cent of this year's students are fulltime, highest fulltime percentage since 1977-78.

Total daytime enrolment this year is 26,175, an increase of 1,504.

Here is the faculty by faculty breakdown for daytime enrolment, with 1982-83 totals in brackets:

Agricultural Sciences 389 (394), Applied Science 2,558 (2,560), Arts 6,787 (6,069), Commerce and Business Administration 1,706 (1,733), Dentistry 197 (200), Education 2,873 (2,808), Forestry 401 (378), Graduate Studies 4,020 (3,721), Law 684 (683), Medicine 979 (952), Pharmaceutical Sciences 363 (334), Science 4,097 (3,871).

Strategic *continued from Page 1*

The research is linked to nuclear fusion the production of energy through fusion of atomic nuclei rather than the conventional fission or division of nuclei.

Many other projects involve molecular genetics, computer systems and microelectronics.

Budget *continued from Page 1*

budget committee will submit its final report, including recommendations made to the president and an assessment of the academic impact of the 1984-85 budget.

At the same meeting, President Pedersen will submit his recommendations, where applicable, to Senate for its consideration and recommendation to the Board of Governors in April. (Under the terms of the University Act, the Senate has the power to recommend to the Board the establishment or discontinuance of any faculty, department, course of instruction, chair, fellowship, scholarship, exhibition, bursary or prize).

In his Dec. 14 report to Senate, Prof. Scudder said that Vice-President Smith had circulated to senior administrators throughout the University a copy of a report approved by Senate in September, 1983, outlined an academic plan suggesting that University activities should be classified into three groups — core, core-related and non-core.

The Senate budget committee, Prof. Scudder said, will expect UBC's academic units to undertake budget planning for 1984-85 in the lights of the guidelines set out in the academic plan.

The budget committee, Prof. Scudder told Senate, has been kept informed about the fiscal situation in the University, and will present interim reports to Senate each month, whenever it is possible to do so.

Essay prize worth \$1,250

An essay competition for the William G. Black Memorial Prize, worth \$1,250, will take place at 10 a.m. on Saturday, Jan. 21.

The annual prize has been made available by the late Dr. William Black, who retired from the UBC faculty in 1963 after many years of service.

The prize is awarded for the best essay on a general topic related to Canadian contemporary society. The topic is presented to participants at the time of the competition.

The two-hour competition takes place in Room 104 of the Buchanan Building. For more information, contact the Office of Awards and Financial Aid, Room 50, General Services Administration Building, 228-5111.

Qualifying year students are up eight at 48, unclassified students are up 135 at 995, there are nine more auditors, at 27, and senior citizen enrolment is unchanged at 51.

John Chase, director of Institutional Analysis and Planning, said this year's enrolment figures show that the demand

for a university education is there.

Dr. Chase said that because of enrolment restrictions in most of the professional faculties, many students likely were going into Arts, Science and Education with the hope of being able to transfer later.

Five students vye for two seats on governing board

UBC students will go to the polls Monday and Tuesday (Jan. 9 and 10) to elect two members to the Board of Governors and 10 members to the UBC Senate.

Students from six UBC faculties have been elected to Senate by acclamation and will take their seats on April 1.

Students from the Faculty of Education will not be represented on Senate for the second year in a row because of a lack of response to a call for nominations from UBC's Registrar, Kenneth Young, who is responsible for the conduct of elections to UBC governing bodies under the University Act.

Education students were not represented on Senate last year because a single student nominated for a Senate seat withdrew as a candidate.

A total of five students, including incumbent David Frank, a Master of Business Administration degree candidate, are vying for two seats on the Board of Governors. Other nominees are Don Holubitsky, Medicine 3; Douglas Low, Physical Education 4; Steve Sorko, Arts 3; and Mark Thompson, Law 2.

Elections will be necessary in five faculties to determine Senate representatives. Candidates are as follows:

AGRICULTURAL SCIENCES: Nancy Campbell, year 3, and Joseph M. Rutherford, year 2; ARTS: Eva Busza, year 3, and Randy Kaye, year 3; FORESTRY: Dan Graham, year 1, and Steve King, year 3; GRADUATE STUDIES: Francisco Cabanas, Ph.D. candidate in Physics; and Ronald A. Yaworsky, Master of Engineering candidate; SCIENCE: John Kelsall, year 2; Ann Rahme, year 3; and Mark Tellez, year 3.

In addition, a total of ten students are running for five Senator-at-large positions. They are: Tracey Balcom, Arts 3; Barbara Chant, Arts 4; Donna Chow, Arts 2; Marvin Friesen, Agricultural Sciences 3; Brent Hunter, Arts 3; Rob V. Kragelj, Commerce and Business Administration 1; Barry Mah, Arts 3; Bill Pegler, Science 2; Phil Penner, Law, 2; and Mark Charles Tower, Commerce and Business Administration 1.

The following students were the sole candidates nominated to represent individual faculties and have therefore been elected to Senate by acclamation: APPLIED SCIENCE: Ron M. Finnigan, year 3; COMMERCE AND BUSINESS ADMINISTRATION: Andrew J. Pearson, year 2; DENTISTRY: Jim Armstrong, year 3; LAW: Peter Kendall, year 2; MEDICINE: Andrew Clarke, year 2; PHARMACEUTICAL SCIENCES: Laurel A. Williams, year 2.

The absence of a candidate from the Faculty of Education means that student representation on Senate will number 16 instead of 17. Under the University Act, students elect one member to represent each of UBC's 12 faculties plus five Senators-at-large.

UBC singers head east

The University Singers, a 40-voice choir led by Dr. James Fankhauser, begin a 10-day tour of Ontario on Jan. 7.

The choir was invited to tour Ontario by the Faculty Singers of the University of Western Ontario, who will visit UBC in early February. The exchange is funded through an Open House Canada Grant.

The tour will include concerts in London, Stratford, Guelph, Toronto, Ottawa and Kingston, as well as a performance at F.A.C.E. Theatre in Montreal.

The University Singers perform choral music from all historical periods. The choir won first prize in CBC's National Choral Competition in 1979 and second prize in the BBC's International Choral Competition the following year.



Maurice Sion

Two named to head departments

UBC's Board of Governors has approved the appointment of new heads for the Department of Mathematics in the Faculty of Science and the Department of Animal Science in the Faculty of Agricultural Sciences.

The new head of the mathematics department is Prof. Maurice Sion, a 23-year member of the UBC faculty and an expert in the field of measure theory, which includes probability theory and functional analysis.

The new head of the animal science department is Prof. Robert Blair of the University of Saskatchewan, where he is a member of the Department of Animal and Poultry Science and director of the Prairie Swine Production Research Centre.

Prof. Sion, who took up his five-year appointment as mathematics head on Jan. 1, is a graduate of New York University, where he was awarded the degrees of Bachelor of Arts and Master of Science, and the University of California at Berkeley, where he received his Doctor of Philosophy degree in 1951.

Before joining the UBC faculty in 1960, Prof. Sion taught at Berkeley and was a member of the Institute of Advanced Study at Princeton University from 1955 to 1957. He has published more than 30 articles in mathematical journals and is the author of books on real analysis and basic linear algebra.

Prof. Sion has played an active role in professional mathematical organizations and in 1974 was chairman of the arrangements committee for meetings of the International Congress of Mathematics, which drew 4,500 mathematicians from all over the world to UBC.

Prof. Blair, who will take up his five-year appointment as head of animal science at UBC on March 1, is a graduate of the University of Glasgow, where he received his Bachelor of Science degree in 1956, and the University of Aberdeen, where he was awarded his Ph.D. in swine nutrition in 1960.

Before joining the University of Saskatchewan in 1978, Prof. Blair was a research officer at a Scottish animal research institute, an animal husbandry assistant and research fellow at the University of Aberdeen, principal scientific officer at the Agricultural Research Council Poultry Research Centre in Edinburgh and director of Poultry and Livestock Nutrition for the Swift Canadian Co. in Etobicoke, Ont.

Prof. Blair was promoted to the rank of full professor in the Department of Animal and Poultry Science at the University of Saskatchewan in 1979 and became director of the Prairie Swine Production Research Centre at that university the following year.

He is a prolific writer on topics associated with animal nutrition, particularly in relation to swine and poultry, and is an active member of numerous national and international committees concerned with animal nutrition.



Victor Doray

Vic Doray elected to UBC Board

Victor Doray, head of the Department of Biomedical Communications in the Faculty of Medicine, has been elected to a three-year term on the Board of Governors by full-time employees of the University who are not faculty members.

Mr. Doray, who succeeds William Morrison of the Department of Physics on the Board, was elected from a field of seven candidates.

A graduate of Loyola College (now Concordia University) in Montreal, Mr. Doray was awarded a diploma in medical art at the University of Toronto. Before joining the UBC staff in 1957 as head of medical illustration (now Biomedical Communications), he worked as a medical illustrator and photographer at hospitals in Paris and London.

He is a past president of the International Association of Medical Illustrators and served on the advisory council to the Emily Carr School of Art in Vancouver from 1980 to 1982.

Last month UBC faculty members elected Dr. Patricia Baird, head of the medical school's Department of Medical Genetics, and Department of Geography head Prof. Olav Slaymaker to three-year terms on the Board.

All the newly elected members will take their seats at the meeting of the Board on Feb. 2.

In other election news, Leonard P. Sampson, a UBC graduate and principal of a school in Richmond, has withdrawn as a candidate for chancellor of the University. President George Pedersen announced Mr. Sampson's withdrawal at the December meeting of UBC's Senate.

The election for the position of chancellor thus becomes a race between two UBC graduates — Robert Wyman, head of one of B.C.'s major investment firms and current chairman of the Canadian Chamber of Commerce, and Stan Persky, teacher, author and former editor of the *Solidarity Times*, a weekly newspaper formerly published by the Solidarity Coalition.

Bookstore adds hours

The UBC Bookstore is now open on Wednesday evenings and Saturdays in addition to its regular weekday hours.

The store is open from 8:30 a.m. to 8:30 p.m. on Wednesday and from 9:30 a.m. to 5 p.m. on Saturdays. John Hedgecock, director of the Bookstore, said that hours had been extended in response to requests from evening students and off-campus customers who were unable to get to the Bookstore during the daytime on weekdays.

Hours on weekdays excluding Wednesday are 8:30 a.m. to 5 p.m.

The Bookstore remains closed on Sundays.

Faculty lay-off criteria subject of renewed talks

Negotiations are again under way between the University and the Faculty Association on a revised set of association proposals on the criteria and procedures that will apply to lay-offs of faculty members for reasons of financial exigency.

Negotiations between the University and the association on the criteria and procedures that would apply in the event of financial exigency were temporarily suspended in 1982. In the interim, the association's executive has developed a revised set of proposals in the light of guidelines from the Canadian Association of University Teachers, the recommendations of previous committees of the association and experience in earlier negotiations.

The possibility of faculty lay-offs was the subject of a special meeting of the

association on Dec. 12, called by 25 members and attended by 225, when a motion was passed urging the executive to write to President George Pedersen "urging him to submit no plans concerning the fiscal year 1984 - 85 that involve any lay-offs of faculty," and urging him to "complete negotiations with the Faculty Association on financial exigency as soon as possible."

In its December newsletter to members, the association's executive said it had written to the president, "strongly reiterating (the association's) long-standing position . . . that there should be no lay-offs for reasons of financial exigency until agreement has been reached on the criteria and procedures to govern any such lay-offs."

Protest proposal defeated

UBC Faculty Association members have narrowly defeated a proposal to stage a day of protest against cut-backs in university funding.

The association, in a mail ballot to its members which arose out of a motion passed at its general meeting in November, sought a mandate to stage a day of protest that would include a march or rally on a Saturday in January.

In response to the question: "Should the Faculty Association stage a day of protest in January, 1984?", 517 members voted "No," and 486 voted "Yes." A total of 2,016 questionnaires were sent to members.

The association, in its December newsletter, says its executive "does not

interpret this result as a mandate to proceed with a day of protest," but adds that there is clearly "widespread concern, particularly about university funding."

As a result, the executive has set up a committee to examine the detailed responses to the questionnaire and to make recommendations on how concerns can be expressed.

"It is hoped," the newsletter comments, "that through cooperation with the University Administration, and with the other universities in B.C., we may be able to take effective steps to draw public attention to the long-term results of university cut-backs."

AUCC calls for change in federal fund transfers

OTTAWA — The federal government should amend the Established Programs Financing Arrangements to ensure that federal funds transferred to the provinces in support of post-secondary education are spent in that sector, according to the Association of Universities and Colleges of Canada.

In an eight-page brief presented to the Royal Commission on the Economic Union and Development Prospects for Canada, the AUCC points out that universities are vital to the social, cultural and economic prosperity of communities, provinces and the country as a whole. It calls on the commission to press the federal and provincial governments to provide adequate levels of funding to post-secondary institutions over the long term.

The brief calls attention to the important role of the universities in research and development. It says the commission should recognize 1) that nearly all researchers get their training at university, 2) that universities must remain the focal point for much of the country's basic research, 3) that support for basic research should not be allowed to fall below a minimally acceptable level and 4) that the balance between basic and applied research should be carefully monitored.

The association points to the need for a "coherent national research policy" and calls on the commission to set out specific corrective measures to guard against a potential shortfall of trained university researchers in the coming decades.

The brief was delivered by AUCC President Dr. W. Andrew MacKay, president of Dalhousie University and by AUCC Board member Dr. Ronald L. Watts, principal of Queen's University at Kingston.

The association represents 70 universities and degree-granting colleges. The group was founded in 1911.

* * *

OTTAWA — All Canadians have a fundamental right to a university education if they are qualified, says the Canadian Association of University Teachers, but government underfunding is restricting

admission to fewer and fewer lucky ones each year.

In its brief to the Macdonald Commission on the economy, the 26,000-member association points out that most Canadians recognize the need to be better educated in the coming decades but some politicians are trying to restrict access to university and this will retard the country's growth potential.

There should be no economic, social, or cultural barriers to enrolment, says the CAUT, and special programs to encourage more women, native people, and the economically disadvantaged should be established. Merit should be the only criterion.

The association calls the current level of funding for universities inadequate, and wants an end to federal and provincial bickering over the current funding crisis which has led to depleted libraries, out-of-date scientific equipment, and a loss of morale in the education system. It plans a second brief on this matter.

The brief also calls for wider recognition of the importance of university-based research, particularly basic research; more money for graduate and post-graduate training programs; research ventures with business and labor; and tax incentives to encourage research in the universities.

In addition, it outlines serious university staffing problems in the 1990s when large numbers of professors are expected to retire and student enrolments are projected to increase substantially; government threats to academic freedom and university autonomy; and bilingualism in universities.

GRANT DEADLINES

Faculty members wishing more information about the following research grants should consult the Research Services 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).

February (application deadlines in brackets)

- Alcoholic Beverage Medical Research Fdn. Research (1)
- AUCC: National Defence Program Fellowships: Strategic Studies (1) - PDF: Military History (1)
- Australian Inst. Nuclear Science & Engineering AINSE Research Fellowship (28)
- Cancer Research Society Inc. Fellowships (15) Research (15)
- Deutscher Akadem. Austauschdienst (DAAD) Study Visits of Foreign Academics (1)
- Distilled Spirits Council of US Grants-in-aid for research (1)
- Educational Research Inst. of BC (ERIBC) ERIBC Major Research Grant (1)
- Environment Canada: Forest Service Forestry Research (1)
- Environment Canada: Wildlife Service University Research Support Fund Program (15)
- Health & Welfare Canada: Welfare National Welfare: Senior Research Fellowship (1)
- Hereditary Disease Foundation Research (1)
- International Copper Research Assn. Research Contract (15)
- International Development Research Centre South-North Research Awards in Education (28)
- Labour Canada University research (15)
- Manning, Ernest C. Awards Foundation Ernest C. Manning Awards (29)
- MRC: Grants Program Grants-in-aid - NEW (1) Major Equipment (1)
- National Cancer Institute of Canada Career Award Appointments (1) Training and Study Awards (1)
- National Huntington's Disease (US) - Postdoctoral Research Fellowships (15)
- Royal Bank - Royal Bank Award (28)
- Royal College of Physicians and Surgeons - H.K. Detweiler Travel Fellowships (28)
- Scottish Rite Schizophrenia Prog. - Research Grant (1)
- Secretary of State - Canadian Ethnic Studies Program: Professorships (15) - Canadian Ethnic Studies: Research (15)
- Sigma Delta Epsilon Women in Science, Inc. - Research (1)
- Spencer, Chris Foundation - Foundation Grants (28)
- SSHRC: Strategic Grants Division - Canadian Studies: Research Tools (1) - Library: Strengthening of Specialized Collections (1)
- University of New Brunswick Postdoctoral Fellowship (10)
- Weizmann Inst. of Science - Joseph Meyerhoff Fellowship (28)
- Whitehall Foundation, Inc. - Research (1)
- Apple Canada Education Foundation - Microcomputers Research (open)

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

Safety Corner

A two-hour training seminar for department/area/building safety committees on accident investigations will be held Jan. 19 in the Garden Room of the Graduate Student Centre, starting at 1:30 p.m.

The seminar is being presented in cooperation with the Workers' Compensation Board and will present

accident investigation as a tool in an effective safety program.

"The importance of a well-designed report which outlines both accident causes and the implementation of corrective action will be discussed," said UBC safety coordinator Geoffrey Crampton.

Further information on the seminar is available from Mr. Crampton at 228-5811.

UBC CALENDAR

Calendar Deadlines

For events in the weeks of Jan. 22 and 29, material must be submitted not later than 4 p.m. on Thursday, Jan. 12. Send notices to Information Services, 6328 Memorial Road (Old Administration Building). For further information, call 228-3131.

SUNDAY, JAN. 8

Men's Gymnastics.

UBC vs. the University of Washington. Osborne Centre. 1 p.m.

MONDAY, JAN. 9

Plant Science Seminar.

Sacrifice to Robigus - Aspects of Host Pathogen Interactions. Dr. Michael Shaw, Plant Science, UBC. Room 342, MacMillan Building. 12:30 p.m.

The Pedersen Exchange.

The Pedersen Exchange is cancelled this week. President Pedersen meets every Monday he is on campus with any member of the University community who wishes to discuss matters of concern. 3:30 to 5 p.m.

Health Sciences Disarmament Group.

Informal meeting (with refreshments) for anyone interested in joining a nuclear disarmament group based in the Health Sciences area. Room G41, Woodward Instructional Resources Centre. 3:30 p.m.

Electrical Engineering Seminar.

Modern Microwave Measurements. Dr. Stephen F. Adam, Hewlett Packard Co., Palo Alto, California. Room 402, Electrical Engineering Building. 3:30 p.m.

Management Science Seminar.

Stochastic Optimization Models and their Application to Fisheries Management. Prof. Colin Clark, Mathematics, UBC. Room 413, Angus Building. 3:30 p.m.

Applied Mathematics Seminar.

Geostrophic Adjustment in Channels. Dr. William Hsieh, University of New South Wales, Kensington, Australia. Room 229, Mathematics Building. 3:45 p.m.

TUESDAY, JAN. 10

Chemistry Lecture.

Along the Reaction Coordinate in Solution. Prof. J.T. Hynes, Chemistry, University of Colorado. Room 250, Chemistry Building. 4 p.m.

WEDNESDAY, JAN. 11

Noon-Hour Concert.

Hortulani Musicae. Erica Northcott, soprano; Peter Hannan, recorder; Ray Nurse, lute, and Nan Mackie, viola da gamba. Recital Hall, Music Building. 12:30 p.m.

Statistics Workshop.

Statistical Problems in the Geological Sciences. Dr. Alastair J. Sinclair, Geological Sciences, UBC. Room 223, Angus Building. 3:30 p.m.

Geography Colloquium.

B.C. Resource Communities. Prof. Pat Marchak, Sociology, UBC. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.

Similarities in Energy Budgets and Life History Patterns of Animal Populations. Dr. Dave Lavigne, Zoology, University of Guelph. Room 2449, Biological Sciences Building. 4:30 p.m.

Frederic Wood Theatre.

Opening night of Oscar Wilde's *The Importance of Being Earnest*. Continues until Jan. 21 (except Sunday). For ticket information, call 228-2678 or drop by Room 207 of the Frederic Wood Theatre. 8 p.m.

THURSDAY, JAN. 12

Faculty Recital.

Music of Bach, Quantz, Telemann, Duvernoy, and Donizetti. Played by Paul Douglas, flute; Brian G'Froerer, French horn; Anthony Averay, bassoon; Maria De Rungs, cello; Robert Rogers, piano, and James Bailey, harpsichord. Recital Hall, Music Building. 12:30 p.m.

Condensed Matter Seminar.

A New Phase of Three-Dimensional Matter: Surprising Results of the Dislocation-Loop Theory of the Multicritical Point in Smectic Liquid Crystals. John Toner, IBM Watson Research Center, Yorktown Heights. Room 318, Hennings Building. 2:30 p.m.

Psychology Colloquium.

Accountability: The Neglected Social Context of Judgment and Choice. Dr. Philip Tetlock, University of California. Room 421, Angus Building. 3:30 p.m.

Physics Colloquium.

Beyond the Standard Model: Toward the Desertion and the Next Generation of Accelerators. Erich Vogt, director, TRIUMF. Room 201, Hennings Building. 4 p.m.

CUSO-UBC Development Education Series.

World Development Awareness and Action. Admission is free. For further information, call 228-4886 (a.m.) International House. 7:30 p.m.

FRIDAY, JAN. 13

Electrical Engineering Seminar.

Discrete Time Analysis and Control of Current-Programmed DC/DC Converters. Dr. Kevin C. Daly, Electrical Engineering, University of New South Wales, Sydney, Australia. Room 418, Electrical Engineering Building. 10:30 a.m.

Women's Volleyball.

Thundervolley. War Memorial Gymnasium. 4 p.m.

Faculty Club.

Chef Erich Schmiegl will give a demonstration and commentary on the dinner served in the main dining room that evening. Cooking demonstration is at 6:30 p.m. in the ballroom, dinner at 7:30 p.m. Faculty Club.

Hockey.

UBC vs. the University of Saskatchewan Huskies. Thunderbird Winter Sports Centre. 8 p.m.

Purcell String Quartet.

Music of Pentland, Mozart, and Mendelssohn. Played by Sydney Humphreys, violin; Bryan King, violin; Philippe Etter, viola; Ian Hampton, cello, with Robert Rogers, guest pianist. For ticket information, call 921-8464. Recital Hall, Music Building. 8 p.m.

SATURDAY, JAN. 14

Women's Volleyball.

Thundervolley. War Memorial Gymnasium. 8 a.m.

Hockey.

UBC vs. the University of Saskatchewan Huskies. Thunderbird Winter Sports Centre. 8 p.m.

MONDAY, JAN. 16

Plant Science Seminar.

European Clonal Selection of Plant Materials for Landscape Improvement. Bruce MacDonald, assistant director, Botanical Garden, UBC. Room 324, MacMillan Building. 12:30 p.m.

Management Science Seminar.

Multi-Period Risky Project Valuation: a Mean-Covariance Certainty-Equivalent Approach. Prof. Gordon Sick, University of Alberta. Room 413, Angus Building. 3:30 p.m.

The Pedersen Exchange.

The Pedersen Exchange is cancelled this week. President Pedersen meets every Monday he is on campus with any member of the University community who wishes to discuss matters of concern. 3:30 to 5 p.m.

Applied Mathematics Seminar.

Uniform Asymptotic Expansion of Jacobi Polynomials with Applications. Dr. Chris Frenzen, Mathematics, UBC. Room 229, Mathematics Building. 3:45 p.m.

Biomembrane Discussion Group Seminar.

Structure and Function of Rhodopsin Biomembranes. Dr. Paul Hargrave, University of South Illinois. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

TUESDAY, JAN. 17

Esperanto Club Inaugural Meeting.

The 1984 World Esperanto Congress will be held at UBC in late July. The main aim of the UBC Esperanto Club during its first six months will be to give University members the chance of learning the language, so they will be able to talk freely with people from 30 to 50 countries during the congress itself. Anyone interested in finding out more about the language is welcome to come along. International House. 12:30 - 2:30 p.m.

Oceanography Seminar.

Some Problems in Coastal Trapped Waves. Dr. William Hsieh, School of Mathematics, University of New South Wales, Sydney, Australia. Room 1465, Biological Sciences Building. 3 p.m.

Chemistry Lecture.

1983 - 84 Xerox Lecture. Molecular Metal Cluster Chemistry. Prof. Earl L. Muetterties, Chemistry, University of California, Berkeley. Room 250, Chemistry Building. 4 p.m.

Human Nutrition Seminar.

Nutritional Implications of Traditional Methods of Processing Corn. Jennifer Hamilton, Human Nutrition, UBC. Room 242, Family and Nutritional Sciences Building. 4 p.m.

Gerontology Lecture.

Social Factors in the Health and Well-Being of the Elderly. Dr. Beverly Burnside, Health Care & Epidemiology, and Committee on Gerontology, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 7 p.m.

WEDNESDAY, JAN. 18

Pharmacology & Therapeutics.

Regulation of Lipolysis in Cardiac Tissue. Dr. David Severson, Pharmacology, University of Calgary. Room 317, Block C, Medical Sciences Building. 12 noon.

Assertive Training Workshop.

The Office for Women Students will lead an assertive training group for women students. The workshop will teach women to express themselves directly and overcome obstacles to assertive behaviour. Pre-registration required in Brock 203. For more information, call 228-2415. Room 106C, Brock Hall. 12:30 p.m.

Noon-Hour Concert.

Trout quintet by Schubert. Played by John Loban, violin; Gerald Stanick, viola; Ken Friedman, double bass; Eric Wilson, cello, and Robert Silverman, piano. Recital Hall, Music Building. 12:30 p.m.

Geography Colloquium.

Political Implications of Home Ownership. Geraldine Pratt, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Statistics Workshop.

Bayesian Nonlinear Regression. Dr. David M. Eaves, Mathematics, SFU. Room 223, Angus Building. 3:30 p.m.

Animal Resource Ecology Seminar.

Evolution of Insect-Plant Interactions: Toward a Demographic Framework. Dr. John Thompson, Zoology, Washington State University. Room 2449, Biological Sciences Building. 4:30 p.m.

Faculty Club.

Buffet dinner in the main dining room. Cost is \$9 per person. Reservations required. Faculty Club. 5:30 to 7:30 p.m.

Women's Gymnastics.

UBC vs. Sacramento State. Osborne Centre. 6:30 p.m.

THURSDAY, JAN. 19

Essay Skills Workshop.

Nancy Horsman of the Women Students' Office will give three one-hour workshops to assist students increase their skills in preparation of essays. They will be held three Thursdays, Jan. 19, 26 and Feb. 2. Room B212, Buchanan Building. 12:30 p.m.

Electrical Engineering Seminar.

The Faculty of Engineering at the University of Victoria. Dr. L.T. Bruton, Dean of Engineering, University of Victoria. Room 402, Electrical Engineering Building. 1:30 p.m.

Condensed Matter Seminar.

High Temperature Magnetism in Chromium? Eric Fawcett, University of Toronto. Room 318, Hennings Building. 2:30 p.m.

Physics Colloquium.

The Status of Neurological Research Today. E. McGeer, UBC. Room 201, Hennings Building. 4 p.m.

CUSO-UBC Development Education Series.

World Development Awareness and Action. Admission is free. For further information, call 228-4886 (a.m.) International House. 7:30 p.m.

FRIDAY, JAN. 20

Concert.

Music of Debussy, Beethoven, Lutoslawski, and Schumann. Played by Grace McNab, piano. Recital Hall, Music Building. 12:30 p.m.

Reading.

Canadian writer David Watmough will read from his work. Room D230, Buchanan Building. 12:30 p.m.

Purcell String Quartet.

Music of Coultard, Mozart, and Mendelssohn. Played by Sydney Humphreys, violin; Bryan King, violin; Philippe Etter, viola; Ian Hampton, cello, with Hans-Karl Piltz, guest violist. For ticket information, call 921-8464. Recital Hall, Music Building. 8 p.m.

Hockey.

UBC vs. the University of Calgary Dinosaurs. Thunderbird Winter Sports Centre. 8 p.m.

SATURDAY, JAN. 21

Vancouver Society for Early Music.

Hortulani Musicae. Colin Tilney, harpsichord. For ticket information, call 732 1610. Recital Hall, Music Building. 8 p.m.

Hockey.

UBC vs. the University of Calgary Dinosaurs. Thunderbird Winter Sports Centre. 8 p.m.

Notices . . .

Pipers and Drummers

Pipers and drummers wanted for campus pipe band. For information, call Edward Mornin at 228-5140.

Geology Museum sale

The Collector Shop at the UBC Geological Museum, located in the Geological Sciences Building, is holding a clearance sale of specimens during the month of January. Reductions up to 50 per cent on current stock of mineral and fossil specimens. For more information, call Joe Nagel at 228-5586.

St. John Ambulance first aid

St. John Ambulance is offering their Safety Oriented First Aid course (S.O.F.A.) to UBC students. The course costs \$20, requires eight hours to complete, and will be offered on Saturdays. Upon completion of the program, an Emergency First Aid Certificate is issued. Registration: Wednesday, Jan. 11 and Thursday, Jan. 12, 10:30 a.m. to 2:30 p.m. in the Woodward Instructional Resources Centre mall. Course fee is payable at that time.

Textile Display

An exhibit of African textiles is on display in the north wing, fifth floor, of the Main Library through the middle of January.

Museum of Anthropology

Exhibit: An exhibit entitled *Museum Quality* features more than 100 art works and artifacts that have been purchased for the museum with support from the Anthropology Shop volunteers. The exhibit continues through Jan. 15. **Sunday Programs:** The Museum is sponsoring three hands-on programs every Sunday until May entitled Copper, Salmon, Cedar: Glimpses of Wealth on the Northwest Coast. The programs are as follows: *The Life-Giving Cedar*, at 1 p.m.; *Harvesting the Sea: Fishing*, at 2 p.m.; *The Potlatch: Past and Present*, at 3 p.m. Programs are free with museum admission.

FIRST CLASS MAIL

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