Inflation outpaces grants, president tells UCBC

The quality of education at the University of British Columbia is suffering because its annual operating grants from the Universities Council of B.C. are not keeping pace with infla-tion. President Douglas Kenny told the Universities Council of B.C. last

The annual meeting between the Universities Council and UBC's Board of Governors was told by Dr. Kenny that inflationary pressures and the under-funding of the university system are affecting UBC's ability to meet the needs of a growing student body

The president made these points:

• The University's 1980-81 operating grant increase of 8.7 per cent is well below the annual inflation rate. And when line items set by UCBC are deducted, the general increase becomes 7.9 per_cent

 The academic inflation rate has seen the costs of books, professional supplies and utilities increase by as much as 14 to 20 per cent in the past

year.

UBC must reduce its continuing payroll base by the end of this fiscal year (March 31, 1981) because of the shortfall between the funds available for wage increases and the settlements negotiated with faculty and staff. This brings to almost \$7 million the amount that UBC has had to remove from its operating budgets since 1976-77—probably the largest cutbacks made by any Canadian universi-

ty in that period.

• Wage and salary settlements at UBC this year were only about 10 per cent as compared to the public sector average in British Columbia of 12.5 per cent and an all-industry average of 11.4 per cent. The increases at UBC are well below the increases awarded at other B.C. universities and in professional areas such as hospitals.

● Low wage and salary settlements over the past few years leave the University vulnerable to 'raiding' by other institutions and the private sector because UBC can't pay competitive salaries.

President Kenny also pointed out that the University is indirectly penalized because of the success of its faculty in attracting significant increases in research grants. The indirect costs to support research are not funded by the granting agencies and must come out of the operating

"Research stimulates better teaching and provides long-term benefits for society, and our grants in this area have again increased by 20 per cent in the past year," President Kenny said.

He said the servicing of new buildings on campus also cuts into the operating budget. Provision is made for the capital funding necessary to erect a building, but adequate funds are not provided for operation and maintenance.

The president said he was con vinced that no one in government and most certainly not the B.C public, wants to see the University diminish in quality.

Young people are still coming to UBC in record numbers and I believe a major reason for this is the quality of the education we offer," Dr. Kenny

"If this quality is going to be croded because of marginal funding, it would be a tragedy not only for these young people, but for every person in this province who is concerned about the

The president's statement to the Universities Council came on the heels of a debate at the September meeting of Senate on a report of the Senate Budget Committee, which drew attention to the under-funding of the University as the result of formula financing, (Excerpts from the debate appear on page 2 of this issue of UBC ports).

In the course of that debate, Dean Cyril Finnegan of the Faculty of Science disclosed that the Department of Computer Science had been forced to halt registration for a first-year course because all available sections were full and there were no funds to hire additional teachers

UBC Reports carried out an informal survey of other UBC faculties to find out if their operations were being affected by under-funding. A summary of the findings begins below.

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UBC's winter session can get a little hectic from time to time and everyone craves a little privacy. This student found it about 12 feet off the ground in the lower

branches of one of the northern red oaks on the Main Mall next to the Scarfe Building. She was, she assured us, not studying, but writing a letter.

UBC prepares triennial voting tor

The entire University community students, faculty, employed staff and will be involved in elecgraduates tions to UBC's Board of Governors and Senate during the 1980-81 academic year.

Regulations covering the various elections were approved at the

September meeting of the UBC Senate as required under the Universities Act, the provincial legislation which sets out the governmental framework for B.C.'s universities

This year, elections to UBC's two major governing bodies involve triennial balloting for the post of Chan-

cellor, who sits on both the Board and the Senate, as well as for two members of the UBC faculty and one member of the UBC employed staff to sit on the Board of Governors.

The Chancellor of the University is Please turn to page 3 See ELECTION

Quality of education threatened

Static faculty budgets that prevent the hiring of new faculty members to teach UBC's growing number of students is seen as the main threat to educational quality at UBC.

This is the picture that emerges from an informal survey of UBC faculties made by UBC Reports following a Sept. 10 Senate debate on the report of the Senate budget committee. (Excerpts from the debate appear on page 2 of this issue of UBC Reports).

Prof. Donald MacDougall, chairman of the Senate budget committee, said UBC's financial situation had become particularly acute in recent years because of two factors:

• Funds provided by the provincial government for university operating purposes have not kept pace with the general rate of inflation; and

• The adoption by the Universities Council of B.C. of a formula for distributing operating grants among the three public universities has worked to UBC's disadvantage.

In the debate that followed, Dean

Please turn to page 2 See QUALITY

Patrol begins enforcement

UBC's Traffic and Security Department has begun full enforcement of campus traffic and parking regulations for the 1980-81 winter session.

The regulations, which are ap-proved annually by UBC's Board of Governors, weren't rigidly enforced until this week to allow members of the University community to obtain parking decals for the current academic year, said traffic and security director Al Hutchinson.

You can get a decal for the cur rent year at the department's head quarters on Wesbrook Mall south of Thunderbird Boulevard. You must have your vehicle and registration certificate with you when you apply.

'We're past cutting to the bone, we're into the bone'

Committee, which annually assists President Douglas Kenny in the budget, sparked a debate at the September Senate meeting which centred on the formula used by the Universities Council of B.C. to divide university operating funds allocated by the provincial government. What follows is an edited version of the debate, which began with a statement by Prof. Donald Mac-Dougall, who chairs the Senate Budget Committee

PROF. DONALD Mac-DOUGALL, Faculty of Law: The report before you details a situation which is disturbing if you're concerned about academic excellence.... This University is not suffering a decrease in the number of students enrolled, so in terms of the funding that's required to maintain the quality of teaching, clearly it can't be said that we're servicing a smaller number of students and therefore economies (of scale) can be made. That isn't true.

The report first looks at the general level of provincial funding and makes the point that it has probably not kept pace with inflation of the (past) two

There are some things which are increasing at a far greater rate than the general rate of inflation. The bill for utilities, for example, has been increasing by 20 per cent (a year) rather than 10 per cent. The cost of library books has escalated, partly because of the general rate of inflation, partly because of the depreciation in value of the Canadian dollar. Colleagues from the science faculty tell me that the same problem arises in regard to a lot



Prof. Donald MacDougall

of the equipment they need in their

The funds provided by the provincial government have fallen short of the general rate of inflation. That would be serious enough, but the problem that has made our financing situation particularly acute has been the adoption by the Universities Council of B.C. of a formula system for distributing the provincial grant among the three universities.

Our University has supported the idea of a formula for the purposes of distribution of funds. We agree with

that in principle. The budget committee have some serious concerns about the precise formula that is being used.

In very simple terms, what happens is this. The Council starts with a head count of students at the three universities, and then applies a weighting factor which works to the benefit of UBC because the weighting factor takes into account the higher cost of some of the disciplines we offer and which are not offered at other universities. The UCBC then proceeds to apply an economy-of-scale argument which works seriously to our disadvan-

tage.
The economy-of-scale argument substantially cancels out any benefit we obtain from the weighting factor that is built into the formula to take into account the fact that we have some rather expensive faculties.

In terms of the impact of the formula on the actual distribution (of funds), UBC has not received an increase comparable to the increase obtained by the other two universities. When general university funding increased by about 8.3 per cent (in 1979-80), our increase was approximately 7.2 per cent. Again, when provincial funds increased by 10.3 per cent (in 1980-81), our increase was more like 7.9 per cent (if "line items" for specific purposes designated by UCBC are excluded) or 8.7 per cent (if line items are included).

So that we have been receiving somewhat less in terms of a percentage increase than the general provincia

What impact has this had on the University? Essentially, UBC is caught between two rocks. On the one hand, the UCBC is increasingly designating

funds so that there are an increasing number of line items, which must be spent for specific purposes. There are still general operating grants, but the percentage increases in those have been considerably below the rate of in-

To a very large extent, any discretion the University might have in terms of using those funds has been taken up by salary increases that have been obtained by faculty and staff. In fact, the salary increases have far exceeded the increased funds available.

The truth is that funds are so tight that there is very little room for the University to do anything much in the way of innovation. There must be concern as to whether there is a decline taking place in academic standards.

The solution must be increased provincial funding. We are looking toward increases in student fees, but that by itself won't be sufficient because the bulk of our funding comes

from the provincial government.

PROF. JOHN DENNISON, Faculty of Education: Formula financing looks fair until the formula is actually

Formula financing is essentially enrolment driven; it depends upon the number of students. Those who follow the Ontario scene will know that this has resulted in competition for students that is at best, undignified. Also, it creates the problem that universities embark on programs that are not university-level programs.

Formula financing works well when the institutions do the same things essentially in the same way. But it does not recognize that quality education is expensive. And in this province, the three universities do some things very

differently. That should be encouraged, but formula financing doesn't help that situation, it isn't flexible enough to accommodate this.

The point I'm trying to make is that the three universities have to face the issue of what they're going to de academically in the next 25 years. And having established the fact that they're going to do it well and that they're not going to try to do everything, they should then seek a commitment from the Universities Council to fund this kind of development. I think this is the answer.

DEAN PETER LUSZTIG, Faculy of Commerce and Business Administration: If we allow this threeyear trial period of formula financing in B.C. by the Universities Council to continue without some comments emerging from the Senate and other academic units on this campus, we will be subjected to more of the same.

I'm serving notice of motion at the next meeting of Senate to ask that Senate consider its position vis-a-vis this three-year trial period so that the academics of this University can make their views known on the matter of

formula financing.
PRESIDENT DOUGLAS KEN-NY, chairman of Senate: The Council performs two functions. It submits a request to government (for operating funds) and it divides the money once it is received from government The Council treats those operations as though they were separate and dis-

The Council's submission to government is not based on formula financing, It's based, really, on inflation. All Senate members must keep in mind that the formula is used to divide the

money Council obtains from govern-

What goes to government, in my view, doesn't reflect the nature of academic endeavors at the University And government says the message from the general public is that it should fund public bodies at less than the inflation rate. But the general inflation rate is not what applies to the educational basket of goods.

I would suggest that we are seriously under-funded at this University. And Council should look very closely at the way in which presentations are made to government so that they reflect the genuine costs of operating the Univer-

If the allocation (which the Council receives from government) was sufficiently large, even with a weakness in the formula that is used to divide it between the three universities, UBC would probably not be as unhappy as

One of the problems is that universities are unable to make direct contact with government to put their case for adequate funding. Whenever a public body is two steps removed in making its case, it is in a very vulnerable position. And that's why I have reservations about intermediary groups, because they're not presenting

I worry that in this country we're on the slippery slope to a mediocre society. I'm convinced that that does not reflect the view of the public. When you go to a doctor, you want to go to the very best one you can get, not a mediocre one. Society wants the best engineers. And you are not going to get excellence in B.C. in technology unless you have good engineers graduating.

The funding in the Faculty of Applied Science is abominable. With limited resources they're doing an outstanding job. I'm convinced the public wants excellence.

I think every one of us would like UBC to be a university of world stature. How do you get the necessary funding to ensure that? You're not going to get it by submitting a brief to government asking for more money. We are going to have to point out what universities are doing for society in the broadest sense; why it is critical for society to be producing a thin stream of excellence, and that's all we're doing in the university.

We're getting close to the point where we may seriously have to consider eliminating one faculty. You can cut things to the bone. We're past getting to the bone; we're into the bone, in my judgment, in certain areas of

One can talk of cutting out the fat. That's nonsense at this University. That's long gone. We're into the bone, which is another way of saying that quality is really threatened. Sooner or later this University is going to eliminate certain programs, certain painful decision.

CHRIS NIWINSKI, Student Senator: I think the problem does boil down to a matter of the government and its elected representatives not seeing the University as its top priority or even a priority at times.

I understand it took the Legislature nine minutes to debate and pass the funding for the universities, five minutes of which was spent discussing the (Lady) Godiva incident. Whether it be through open houses or whatever, this University and universities in general have got to do some upgrading of their image in the eyes of the public and its elected representatives in the Legislature.

Not every college football player can claim he rambled 50 yards for a touchdown the first time he got his hands on the ball in his very first game. But that's what happened to UBC Thunderbird running back Chris Stanger, shown slipping out of the grasp of a University of Manitoba

defender seconds before the end of a Sept. 5 game, won by UBC 27-0. The 'Birds will try to improve on their 1-2 record this Friday (Sept. 26) when they meet the University of Calgary at 7:30 p.m. under the lights in Thunder-

Calgary historian wins UBC medal

Historian Thomas Flanagan, who teaches at the University of Calgary, has been awarded the University of B.C. Medal for Canadian Biography

The award, made annually by UBC since 1952, is for Prof. Flanagan's Louis 'David' Riel: 'Prophet of the New World,' described as a "provocative, persuasive and compellingly readable enquiry into Riel's religious

The award was announced in the autumn edition of the UBC-based publication Canadian Literature, edited by UBC English professor William New.

The solid silver medal received by

the winner is carved by noted B.C. artist Bill Reid, renowned for his work as a carver of totem poles, jewelry and other sculptures using the motifs of West Coast Indian culture.

Prof. Flanagan has taken seriously that side of Riel's character which earlier commentators and earlier biographical approaches dismissed as madness or fraud, Prof. New said.

In Prof. Flanagan's book, "the religious beliefs, however unconventional they might seem, here becom evidence of Riel's conviction that he

"In seriously exploring the psychological undercurrents of Riel's life, Flanagan illuminates a singular the cutting edge of contemporary biographical writing."

elected by Convocation, which is basically made up of all graduates and

Triennial elections to Senate, UBC's academic parliament, involve balloting for 11 members representing Con-

Individual faculties will make their own decisions on the procedures and timing of the election for their two representatives to serve on Senate, but all elections must be complete by

In addition, there will be annual elections by UBC students for two student members of the Board of Gover-

Details on each of the elections are

Chancellor and Convocation members of Senate must be in the hands of UBC Registrar Ken Young by 4 p.m. on Nov. 7. Ballots for these elections will results reported to Senate on Feb. 18.

Nominations for the Board member to be elected by full-time UBC employees close at 4 p.m. on Nov. 19, with the election taking place on Dec. 17.

tatives on the Board and Senate close at 4 p.m. on Dec. 19. The election date will be Jan. 20, 1981, with an ad-

Board, the Chancellor will take office on June 25, 1981. All other Board members will take their seats on Feb. 1 and other Senators will take office on

Continued from page 1

first-year course

tions which had been set up to accompected to register for the course.

He estimated that an additional 50 students who were prevented from registering for the course during registration week had now been distributed through the 24 tutorial

Class sizes in upper-year computer science courses are also causing concern. Prof. Gilmore said one of the department's main third-year courses enrolled 115 students when plans had been made for an enrolment of 80, and a fourth-year course had 107 students instead of a planned enrol-

"We don't have a chance to put the polish on these senior students, who are the computer science specialists of the future, because of class size," Prof. Gilmore said.

UBC Reports talked to other deans and faculty officials about the pro-blems they face as the result of tight finances. Here's what we learned.

teach prerequisite courses.

the second-year course, "but that

register for courses offered in the

AGRICULTURAL SCIENCES. Dean Warren Kitts says his faculty is "desperate" for money to hire ants in order to take the pressure off some course sections, which are far too large. "The quality of education is bound to be affected," he says, "because teachers don't have time to deal with students as individuals.'

Salaries in some areas, e.g. agricultural economics and bio-

higher than the salary of the professor

threat to the quality of forestry educa-

He says his faculty's budget simply hasn't kept pace with inflation and as a result students and professors are forced to use outmoded equipment for research and teaching.

industry to this province, this faculty ought to double its enrolment immediately to provide the trained manpower that will be needed as the result the new Forest Act and the revitalized B.C. Forest Service. We simply don't the space or the teachers,"

The increases put us in the red finan-

cially in the last fiscal year. GRADUATE STUDIES. Dean Peter Larkin suggested we talk to Prof. Brahm Wiesman, head of the School of Community and Regional Planning, who says curtailment of the budget for part-time faculty has resulted in cancellation of a course entitled Impact Analysis for Planning.

In addition, the school's budget for visiting professionals has been reduced, there are no funds for travel and "we don't even have enough money for office overhead like postage."

He adds: "This year we do not have funds for the bare essentials of a respectable program. If other departments are in the same position, then the University is in crisis and we had better muster all our political skills to give the president the support he re-

quires in seeking proper funding."

Despite these problems, says Prof.
Wiesman, his school has an excellent reputation. "Our enrolment has increased and our students have an excellent record of success in national

scholarship competitions."
FACULTY OF APPLIED SCI-ENCE. Dean Martin Wedepohl says there has been no increase in his operating budget to match the enrol-

"Our enrolment is up ten per cent this year." he said, "but the faculty has received no increase in financial resources to match the enrolment increases. The quality of education in

Overcrowding in chemical engineering is particularly severe and class sizes in civil, mechanical and electrical engineering are more than twice what they should be. There should be no more than 50 students in a class. Dean Wedepohl said, but the second-year electrical engineering class now

COMMERCE AND BUSINESS ADMINISTRATION. Dean Peter Lusztig says that for the first time this

year his faculty had to turn away at least 20 qualified students who were seeking admission to the master's pro-

sizes that inevitably mean a decline in he quality of educational experience for students. In the first two years of the undergraduate program, class sizes range from 55 to 230, Dean Lusztig said.

sections to non-commerce students and reducing the number of sections offered in service courses in other UBC faculties meant the commerce faculty was "unable to serve the entire University community because we simply don't have the teachers and the

PHARMACEUTICAL SCIENCES. Dean Bernard Riedel says that a reduced level of lab support for pharmacy students is endangering educational quality in his faculty.

to provide lab support, with the result that the faculty has been forced to hire sessional appointees, who are hard to

pharmacy students.

enthusiasm had a divine mission.

Athletes will get awards

Top UBC athletes who are members of senior teams involved in interuniversity competition will be able to accept the \$1,000 athletic scholarship awards established last year by the provincial government. This despite the fact that Canada's

national university athletic organization has, in effect, delayed for one vear a decision on whether Canadian university students can accept awards for their athletic abilities. A see-saw debate on athletic scholarships was a feature of the annual meeting of the Canadian In-

at its summer meetings in Halifax. Delegates first voted to reject the concept of awards, then decided to reopen the question. The second vote passed with one ballot more than the required two-thirds majority and athletic scholarships were declared legal. The accepted plan called for student athletes to maintain basic academic standards and prove real

teruniversity Athletic Union (CIAU)

Western and Atlantic delegates supported the plan, while delegates from Ontario and Quebec were opposed.

The upshot of the debate was agreement to establish a six-member committee to review the controversial issue

financial need.

and report to the 1981 CIAU meeting in Quebec City.

Prof. Robert Morford, director of UBC's School of Physical Education and Recreation, is a member of the review committee.

Workshop set

A three-day workshop on "Women and The Canadian Labor Force" will be held at UBC Oct. 2, 3 and 4 on behalf of the Social Sciences and Humanities Research Council of Canada (SSHRC).

Prof. Naomi Hersom of the Faculty of Education, workshop organizer, said the purpose is to determine the present state of knowledge about working women and then specify future research requirements.

A report on the workshop will be submitted to the SSHRC, which introduced a 'strategic grants' program in 1979 for research and other scholarly activity on subjects of national in-

There will be about 50 participants from across Canada at the workshop, most of them women, and 12 background papers will be presented.

personality; he also places himself at

ELECTION Continued from page 1

faculty members of the University.

vocation and 34 faculty members, two representing each of UBC's 12 faculties and 10 at large faculty members.

March 31, 1981,

nors and 17 students to sit on Senate (one from each faculty and five elected at-large).

available from Ms. Mary Raphael of the Registrar's Office, 228-6338. Closing date for nominations for

be counted on Feb. 6, 1981, and the Closing date for nominations for the two faculty members to be elected to the Board is 4 p.m. on Oct. 31, with the election taking place Nov. 28.

Nominations for student represen vance poll on Ian. 19.

Unless otherwise determined by the

QUALITY

Cyril Finnegan of the Faculty of Science told Senate that his faculty had lost its financial "maneuverability," with the result that at noon on the final day of registration for the 1980-81 winter session, the Department of Computer Science had been forced to stop accepting students for a

Dr. Paul Gilmore, head of computer science, said registration for Computer Science 115 was halted because the department had no resources to add to the 24 tutorial secmodate the 700 students who were ex-

ment of 75.

FACULTY OF LAW. Prof. Donald McRae says Law students have difficulty taking some advanced courses in the faculty because it doesn't have enough professors to

For example, not all students in second-year Law are able to take a course called Advanced Real Property, a prerequisite for a third-year seminar in real estate transactions. Prof. McRae says the problem could be solved by hiring another teacher for

would mean cutbacks in other areas." He says the law faculty is also unable to offer law courses in other faculties and schools, despite numerous requests for them, and it doesn't allow non-law students to

resource engineering, have escalated so much in recent years, he says, that even if he had the money he probably wouldn't be able to appoint new teachers. "A beginning assistant professor with a Ph.D. is normally appointed at \$22,500 a year. Beginning salaries paid by industry and govern-ment are now in the \$26,000 to \$27,000 range.

"One of our graduates with a Ph.D. plant science has been offered a beginning salary by government that's

FORESTRY. Dean Joseph Gardner says the 50-per-cent increase in firstyear forestry enrolment this year means "less faculty-student contact, overcrowded classrooms and a real

"Considering the value of the forest f the incentives provided for under

DENTISTRY. Dean George Beagrie says his faculty was faced last year with a 400 per cent increase in the cost of precious metals — gold and silver — in a single month. "We can't cut down on the use of these materials." he says, "because they're essential in the practice of dentistry.

this faculty is declining.

numbers 120 students.

gram in business administration. He said enrolment had led to class

He added that closing off course

physical space.

the recruitment of full-time lecturers

He added that the faculty's clinical program is also endangered because its been forced to reduce significantly the money it pays to local hospitals for the services of full-time pharmacists who provide teaching services for

UBCalendar

UBC CALENDAR DEADLINES

Oct. 5 to Oct. 11

Deadline is 5 p.m. Sept. 25 Oct. 12 to Oct. 18 Deadline is 5 p.m. Oct. 2 Send notices to Information Services, 6328 Memorial Rd., (Old Ad-

ministration Bldg.), Campus. For further information call 228-313).

THE VANCOUVER INSTITUTE



SATURDAY, SEPT. 27

Dr. Gordon Robertson, C.C., President, Institute for Research on Public Policy, on Canada: Constitutional Crossroads. SATURDAY, OCT. 4

Prof. Frank Kreith, Solar Energy Research Institute, Golden, Colo., Sigma Xi National Lecturer, on Solar Energy: Promise and Reality.

Both lectures at 8:15 p.m., Lecture Hall 2, Woodward Instructional Resources

MONDAY, SEPT. 29

11:30 p.m. CHINESE HISTORY LECTURE SERIES. Prof. Cai Shao-qing, History, Nanjing University, on Secret Societies and the Opposition to Foreign Religion in the Yangtse River Valley at the End of the 1800's. Room

215, Geography Building. 12:30 p.m. HISTORY AND ANTHROPOLOGY/SOCIOLOGY LECTURE (Distinguished Visitors Program). Series with the general title The State of the Human Sciences. Dr. Anthony Giddens, Faculty of Social Science, King's College, University of Cambridge, on The Status of the Social Sciences in a Post-Positive Intellectual Climate. Room 102. Lasserre Building

COMPUTING CENTRE LECTURE. The first in a series of three lectures on Survey of Statistical Programs by Dr. Malcolm Greig of the UBC Computing Centre. Room 447, Computer Sciences Building.

COMPUTING CENTRE LECTURE. The first in a series of 12 lectures on Introduction to MTS - Commands, Files and Terminals by M. Patterson, D. Amos and M. Fox. Repeated at 3:30 p.m. Room 305A, Computer Sciences Building.

ANTHROPOLOGY AND SOCIOLOGY SEMINAR

(Distinguished Vistors Program). Dr. Anthony Giddens Faculty of Social Science, King's College. University of Cambridge, will take part in a discussion on his lecture held at 12:30 p.m. Penthouse, Buchanan Building.

PSYCHOLOGY COLLOQUIUM. Dr. Frank Pedersen, National Institute of Child Health and Human Develop ment, Bethesda, Md., on Early Parent-Infant Interaction: Effects of Birth Circumstance and Family Role

Organization, Room 203, Buchanan Building. 5:45 p.m. - APPLIED MATHEMATICS SEMINAR, Prof. Brian R. Seymour, Mathematics and IAMS, UBC, on Soliton-Like Interactions in a Non-Dispersive Medium. Room 203, Mathematics Building.

ASTRONOMY SEMINAR. Dr. Philip C. Gregory Physics, UBC, and Dr. Gregory G. Fahlman, Geophysics and Astronomy, UBC, on An Extraordinary New Astronomical Object. Room 318, Hennings Building. ZOOLOGY PHYSIOLOGY GROUP SEMINAR. Dr.

4:30 p.m. K.G. Pearson, Physiology, University of Alberta, on The Neuronal Analysis of Insect Behavior. Room 2449 **Biological Sciences Building**

IMMUNOLOGY SEMINAR. Dr. Fumio Takei, Pathology, UBC, on Mouse Lymphocyte Differentiation Antigens. Salons B and C. Faculty Club.

TUESDAY, SEPT. 30

12:30 p.m. CENTRE FOR HUMAN SETTLEMENTS VIDEO PREVIEWS. Fourth in the series with the general title Third World Development. This week's presentation is a videotape of Barbara Ward recorded during her address to the U.N. Conference on Human Settlements in 1976. Room 308, Library Processing Building.

CREATIVE WRITING READING AND LEC-TURE. Thomas Shapcott, winner of the 1979-80 Canada-Australia Prize, on Writing in Australia. Room

204, Buchanan Building.
3:30 p.m. OCEANOGRAPHY SEMINAR. Prof. S. Pond, Oceanography, UBC, on Flow Measurements in the Fraser River Plume. Room 1465, Biological Sciences

HISTORY AND ANTHROPOLOGY/SOCIOLOGY SEMINAR (Distinguished Visitors Program). Series with the general title The State of the Human Sciences. Dr. Anthony Giddens, Faculty of Social Science, King's rsity of Cambric and Structure in Social Analysis, Rooms 207-9, An-

thropology and Sociology Building. 4:30 p.m. CHEMISTRY RESEARCH CONFERENCE SERIES. Dr. J. Trotter, Chemistry, UBC, on Crystal Structure Studies of Solid-State Reactions. Room 250, Chemistry

7:00 p.m. CENTRE FOR CONTINUING EDUCATION Vancouver Women's Network. An evening of speakers on the topic Networking - A Good Start For Fall. \$5 for members; \$8 non-members (coffee and dessert served). Bayshore Hotel. For information, call 228-2181, local

WEDNESDAY, OCT. 1

11:30 a.m. CHINESE HISTORY LECTURE SERIES. Prof. Fu Yi-ling, head, History, and vice-president, Xiamen University, Amoy, on The Social Structures of Various Feudal Classes in the Ming and Qing Periods. Room

215, Geography Building.
WEDNESDAY NOON-HOUR CONCERT. Martin Berinbaum, trumpet, and Patrick Wedd, organ, perform Music of Bach, Albinoni, Jongen, Badings and Johns. Recital Hall, Music Building.

WEDNESDAY, OCT. 1 (Continued)

SIMULATION AND MODELLING IN SCIENCE. Dr. James V. Whittaker, Mathematics, UBC, on Two Views of Three Deaths From Swine Flu. Room 105,

Mathematics Building.
3:30 p.m. CHEMICAL ENGINEERING SEMINAR. A. Bonsu on Fluidized Bed Claus Reactor. Room 206, Chemical Engineering Building.
ECONOMICS THEORY SEMINAR. Erwin Diewert on

Cost Benefit Analysis From the Viewpoint of Productive Efficiency. Room 351, Brock Hall. GEOPHYSICS SEMINAR. Dr. George McMechan,

Pacific Geoscience Centre, Sydney, B.C., on Inversion of Seismic Refraction Profiles by Wavefield Transforms. Room 260, Geophysics and Astronomy Building. 4:00 p.m. ANIMAL RESOURCE ECOLOGY SEMINAR. Dr.

Ken Hall and David Levy, Westwater Research Centre, UBC, on The Ecology of Fraser Estuarine Marshes: A Westwater Perspective. Room 32, Hut B-2. 7:30 p.m. INTERNATIONAL FOLK DANCING. Beginning

dances and steps will be taught from 7:30 to 9:00 p.m. No experience necessary. Dancing until 11:00 p.m. For further information call Marcia Snider, 224-0226, or Richard Spratley, 228-8415. Upper Lounge, International House

CENTRE FOR CONTINUING EDUCATION Biology Lecture Series. Claire Weeks, Biochemistry, Duke University, begins a series on Molecular Biology: Foundations and Frontiers. \$36 for series. Lecture Hall 1. Woodward Instructional Resources Centre. For information, call the Centre for Continuing Education, 228-2181, local 261

THURSDAY, OCT. 2

12:30 p.m. FINE ARTS SLIDE PRESENTATION/DISCUS-SION. French Tahitian artist JAD presents a slide show and discussion on his own works. Room 102, Lasserre

FACULTY ASSOCIATION GENERAL MEETING.

Room 100, Mathematics Building.
PHYSICS CONDENSED MATTER SEMINAR, Doug Dahn, UBC, on Using a SQUID to Detect Coal and Asbestos Dust in the Human Lung. Room 318, Hen nings Building

3:30 p.m. HISTORY AND ANTHROPOLOGY/SOCIOLOGY SEMINAR (Distinguished Visitors Program). Series with the general title The State of the Human Sciences. Dr. Anthony Giddens, Faculty of Social Science, King's College, University of Cambridge, on Current Problems on Class Theory. Penthouse, Buchanan Building.

PHYSICS COLLOQUIUM. Dr. W.L. Burke, Lick Observatory and UC, Santa Cruz, on Speckle. Room 201, Hennings Building.

SUBFILMS presents Norma Rae. Continues until Sunday, Oct. 5. Showings at 7:00 p.m. Thursday, 7:00 and 9:30 p.m. Friday and Saturday, 7:00 p.m. Sunday. Ad-

mission is \$1. Auditorium, Student Union Building. CENTRE FOR CONTINUING EDUCATION lecture series. First in a series of ten lectures with the general title The World as a Machine: Science and Human Values. Tonight's lecture is Man's Place in Nature by Stephen Straker, History, UBC. Series fee is \$50 in advance; \$55 at the door (individual lectures, \$6). Room 202, Buchanan Building. Registration and inquiries, 228-2181, locals 237, 252.

FRIDAY, OCT. 3

9:00 a.m. PAEDIATRIC GRAND ROUNDS. Dr. Peter Hahn, Centre for Developmental Medicine, VGH, on Should Neonates Be Fed Cholesterol. Lecture Hall B, Heather

11:30 a.m. CHINESE HISTORY LECTURE SERIES. Prof. Cai Shao-qing, History, Nanjing University, on The Relationship Between the Revolution of 1911 and Secret Societies. Room 215, Geography Building. DEVELOPMENTAL MEDICINE SEMINAR, Raul

Suarez, Zoology, UBC, on Control of Gluconeogenesis in the Fish (Rainbow Trout). Room 15, 811 West 10th 12:30 p.m. SIGMA XI CLUB OF UBC LECTURE. Dr. Frank

Kreith, chief, Thermal Conversion Branch, Solar Energy Research Institute, Golden, Colo., and Sigma Xi Na tional Lecturer, on Industrial Application of Solar Energy. Room 104, Angus Building.

MEDICAL GENETICS SEMINAR, Drs. P.A. Baird, P.M. MacLeod and A. Sadovnick on American Society of Human Genetics (New York). Fourth Floor Con ference Room, Health Centre for Children

ANTHROPOLOGY AND SOCIOLOGY SEMINAR (Distinguished Visitors Program). Dr. Anthony Giddens, Faculty of Social Science, King's College, University of Cambridge, discusses topics presented throughout the week, Rooms 207-9, Anthropology and Sociology

PIPERS AND DRUMMERS NEEDED

Pipers and drummers among faculty, staff and students interested in playing on campus are asked to contact Edward Mornin, 228-5140.

STUDENT/STAFF/FACULTY

FLUTE ENSEMBLE

A chance to improve your skills. Everyone welcome regardless of experience. We will provide stands and music if you provide your flute and yourself. Rehearsals on Tuesdays, 12:30-1:20 p.m. in Room 1314 of Scarfe Building. For information call 228-5367 or 228-5925, 8 a.m.-4

STUDENT WORK INTERNSHIPS

Study-related work experience before graduation is available for students in third- and fourth-year Arts, Education and Commerce. You'll learn and work on an unpaid basis. For more information, contact the Office of Co-operative Education/Internship Programs, Room 213, Brock Hall. Telephone 228-3022.

1981 RHODES SCHOLARSHIP

Applications for the 1981 Rhodes Scholarship for B.C. are available in UBC Awards Office in the General Services Administration Building, together with information on eligibility. Completed applications must be submitted by Oct. 25 to Michael Brown, Secretary, Rhodes Scholarship Selection Committee for B.C., 2238-200 Granville St., Vancouver, V6C 1S4. Telephone 688-9495.

AMS BOX OFFICE

The AMS Box Office is now operating in the Student Union Building, between the Information and CUTS Travel Office. It is the ticket outlet for all AMS productions and undergraduate society and club functions. All concerts, performing arts and sports events carried by Concerts Box Office will be available at the AMS Box Office. Hours are 9:45 a.m. - 4:30 p.m. Monday through Friday. For information, call 228-2711

DUPLICATE BRIDGE

A social evening of duplicate bridge is held every Tuesday night, 7:00 -10:80 p.m. at the Faculty Club. The fee is \$2, which includes refreshments. For information, call Steve Rettig, 228-4865 or John Stevens, 228-3936

Novice and experienced curlers are invited to join a mixed curling league, Tuesdays, 5-7 p.m., beginning Oct. 7. For information, call R. Taylor, 228-4186, or J.F. Richards, 228-3453.

STATISTICAL CONSULTING SERVICE

The Institute of Applied Mathematics and Statistics offers a free statistical consulting service to UBC faculty and students for academic rojects. For information, call Dr. J.V. Zidek, 228-2479, or Dr. F.P. Glick, 228-6621.

STUDENT HEALTH SERVICE

The Student Health Service is now located in Room 334 of the Acute Care Unit of the Health Sciences Centre Hospital on Wesbrook Mall. Phone 228-7011 (you must dial the entire number). The former University Health Service Hospital on the third floor of the Wesbrook Building has closed. Its functions have been taken over by the Acute Care Unit

LEGAL ADVICE PROGRAM

The UBC Law Students Legal Advice Program operates 15 clinics throughout the Lower Mainland which offer free legal assistance to people with low incomes. For information about the clinic nearest you, call 228-5791 or 872-0271.

FINAL ORAL EXAMINATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Listed below are scheduled final examinations for the degree of Doctor of Philosophy at the University. Unless otherwise noted, all examinations are held in the Faculty of Graduate Studies Examination Room, General Services Administration Building. Members of the University community are encouraged to attend the examinations, provided they do not arrive after the examination has commenced.

Monday, Sept. 29, 10:00 a.m.: GERRY BAILLARGEON, English: The Logical Imagination: The Novels of Virginia Woolf. Friday, Oct. 3, 1:30 p.m.: TAKENORI SUZUKI, Physics: A Systematic Study of Muon Capture.

MUSEUM OF ANTHROPOLOGY

Guests of the University are invited to visit the Museum free of charge during open hours. The host department or faculty should make prior arrangements, however, by telephoning Jennifer Kendon, 228-5567.

Winter hours of the Museum: Tuesdays, 12.9 p.m.; Wednesdays through Sundays, 12.5 p.m. Closed Mondays.

STUDENT EXHIBITIONS: Contemporary Salish Weaving: Continuity and Change; Kwagiutl Graphics: Tradition in a New Medium; West Coast Graphics: Images of Change; Bent Boxes, All exhibits continue until Jan. 3, 1981.

TEMPORARY EXHIBITIONS: Salish Art: Visions of Power, Symbols of Wealth, Opens Oct. 21 and continues until April, 1981. Guided orientations of the exhibit on Oct. 26 and Nov. 2, 8:30 p.m. Free with Museum admission.

LECTURE SERIES:

Offered in co-operation with the Gentre for Continuing Education. DAYTIME COURSES: Food and Culture: Vancouver's Chinatown

Four Fridays, beginning Oct. 24. For information, phone 228-2181, local 273. EVENING COURSES: The B.C. Indian Cultural Renaissance — Eight Tuesdays, beginning Oct. 7; The Celts in History — Six Thursdays, beginning Oct. 9; 3,000 Years of Peruvian Six Wednesdays, beginning Oct. 8. For information, phone 228-2181, locals 237 or 252.

FREE IDENTIFICATION CLINICS:

Bring your collectibles to the Museum and staff will help you with identification, Sept. 30, Oct. 28, Nov. 25, 6-8 p.m.

CHILDREN'S PROGRAMS:

Introduction to Prehistoric Archaeology - for ages 11-13. Four Saturdays, beginning Oct. 11; Indian Art for Children: Learning the Elements of Northwest Coast Design - for ages 9-12. Four Saturdays, beginning Oct. 18.

SNAKE IN THE GRASS MOVING THEATRE:

Clowns Garbanzo and Koko give Sunday performances, Oct. 5 to Dec. 7 at 2:30 p.m. Free with Museum admission.

EDUCATIONAL TRAVEL PROGRAMS:

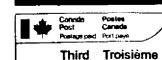
Offered in co-operation with the Centre for Continuing Education. Oct. 3-5. For information, phone The Archaeology of Ozette 228-2181, locals 237 or 252; B.C. Provincial Museum Tour — Oct. 9. For information, phone 228 5087

NITOBE GARDEN HOURS

Until Thanksgiving: open every day 10 a.m. - half-an-hour before sunset.

FINE ARTS GALLERY

An Interior Environment created specifically for the UBC Fine Arts Gallery by Georgiana Chappell continues until Oct. 10. Gallery hours are 10 a.m. to 5 p.m., Tuesday through Saturday. The gallery is located in the north basement of the Main Library.



The Librarian, Special Collections Division, Main Library, CAMPUS

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