

March 4, 1981

Volume 27, Number 5

## Open House: Have a look at the future

Lasers, live animals and the latest in logging management are among features at this year's open house at UBC.

Hosts this year are the applied sciences — agriculture, engineering and forestry. The three faculties will show current research in their areas which will give a peek at the future of

Grant Ainscough, a 1951 UBC
Forestry grad who now is vicepresident and chief forester of
MacMillan Bloedel Ltd., will give this
year's H.R. MacMillan Lecture in
Forestry. He speaks at 12:30 p.m.
March 12 in Room 166 of the
MacMillan Building on 'The Designed
Forest System of MacMillan Bloedel
Limited — an Example of Industrial
Forest Management in Coastal British
Columbia.' It's free.

## Rockefeller, UCBC select Bill Gibson

William C. (Bill) Gibson, former head of the department of the history of medicine and science at UBC, has been appointed to the Council of the Rockefeller University in New York (formerly the Rockefeller Institute for Medical Research).

The university is a post-graduate institution offering Doctor of Philosophy degrees in bio-medical sciences.

Dr. Gibson has also been reappointed to a second five-year term as chairman of the Universities Council of B.C.

each industry.

A number of exhibits will include visitor participation, particularly in computer simulations and games. Open house will be held Friday, March 6, from 10 a.m. to 10 p.m. and Saturday, March 7, from 10 a.m. to 8 p.m.

There'll be real fires and forest fires

simulated on a computer, wind turbines and wind tunnels, talking typewriters for the blind, ultrasonics, pollution engineering, plasma jets and satellite photography and imagery.

Professors and students will be on hand to discuss solar heating and other energy research, bio-medical engineering, production of energy and other useful products from garbage and other pollutants, the Agricultural Land Reserve and management of vast tracts of forests.

Also featured will be the latest on coal research.

Visitors will receive while they last free gold-plated coins, mineral specimens, tree seedlings and plants.

## Two UBC grads named to Board

Two well-known B.C. businessmen who graduated from UBC in the late 1940s have been appointed to the Board of Governors by the provincial government.

Kelowna businessman Richard Stewart, a former alderman of that Okanagan city and chairman of the 1980 Summer Games, will fill the unexpired term to March 15, 1982, of Stanley Weston, who died suddenly on Jan. 6.

Vancouver businessman William L. Sauder, president of Sauder Industries Ltd. and Whonnock Industries, major B.C. lumber firms, replaces George Morfitt, who had served the maximum term of six years allowable under the Universities Act.

Sauder will serve a three-year term on the Board as one of two nominees of the UBC Alumni Association appointed by the provincial government, as provided for under the Universities Act.

Stewart holds the UBC degrees of Bachelor of Science in Agriculture and Bachelor of Commerce, both awarded in 1949. Sauder, a former president of the Young President's Organization, was awarded the degree of Bachelor of Commerce in 1948.

The provincial government appointments bring the Board up to its full strength of 15.

## Research hits \$31 million

UBC researchers were granted more than \$31 million last year, with the natural and health sciences accounting for some \$21 million of the total.

The most heavily funded of the natural sciences at UBC was chemistry at \$2.2 million. Among the health sciences, medicine's total of \$2.4 million was the largest.

Among sources of funds, federal government sources provide more than \$18 million or nearly 60 per cent of the total.

The provincial government accounted for nearly \$5.5 million, slightly ahead of the \$4.9 million from Canadian companies and foundations.

The single largest source of provincial research money came from the B.C. Health Care Research Foundation which distributes part of the proceeds of B.C. Lotteries.

The total amount of research money received last year by Simon Fraser University was \$4 million and by the University of Victoria \$3 million.

## Libraries to be linked in new plan

A Library development plan that will cost close to \$50 million to implement has been approved by the UBC Board of Governors.

The proposal is outlined in some

The proposal is outlined in some detail on the centre pages of today's edition of UBC Reports.

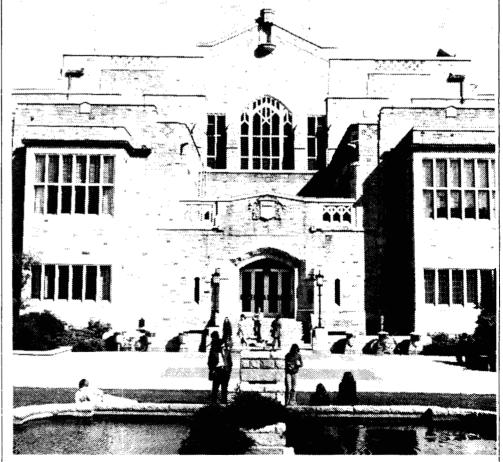
The proposal is the result of more than six months of study and analysis of various Library development alternatives. The study was undertaken and prepared by Facilities Planning in consultation and cooperation with the Librarian, several standing and special committees, and design and landscape consultants.

A model of the proposed design scheme will be on display in the Main Library until the end of March.

Under the plan, the Main Library will be linked to the Sedgewick Library, underground. This is stage one of the development and will provide 110,000 net square feet of new space.

The proposal also calls for demolition and rebuilding of the two wings of the Library, with a new entrance from East Mall. The original Library will be retained and renovated.

The proposal has been forwarded to the Universities Council of B.C. for approval.



Centre block of Library will stay. So will the pool.

## **DEADLINES**

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).

#### April 1

- Hannah Institute Fellowships.
- ◆ Hannah Institute Grants-in-aid.
- Hannah Institute Scholarships.
- Medical Research Council of Canada INSRM/MRC Exchange.
- Medical Research Council of Canada Symposia and Workshops.
- Multiple Sclerosis Society of Canada Career Development Grants.
- Multiple Sclerosis Society of Canada Post-doctoral Fellowships.
- Multiple Sclerosis Society of Canada Research.
- Multiple Sclerosis Society of Canada Research Studentships.
- SSHRC: Negotiated Grants Division ' Major Editorial Grant.
- SSHRC: Negotiated Grants Division Program Grant.

#### April 10

- Association of Commonwealth Universities Administrative Travelling Fellowships.
- UBC-SSHRC Travel Grant.

#### April 15

- Canada Council Translation Grant.
- Donner Canadian Foundation Research Grant.
- Medical Research Council of Canada Travel Grant.
- Secretary of State Canadian Ethnic Studies Program: Professorships.
- Secretary of State Canadian Ethnic Studies: Research.
- UBC-NSERC Equipment Grant.

#### April 16

 Ontario Economic Council Contract Research in Manpower and Education.

#### April 24

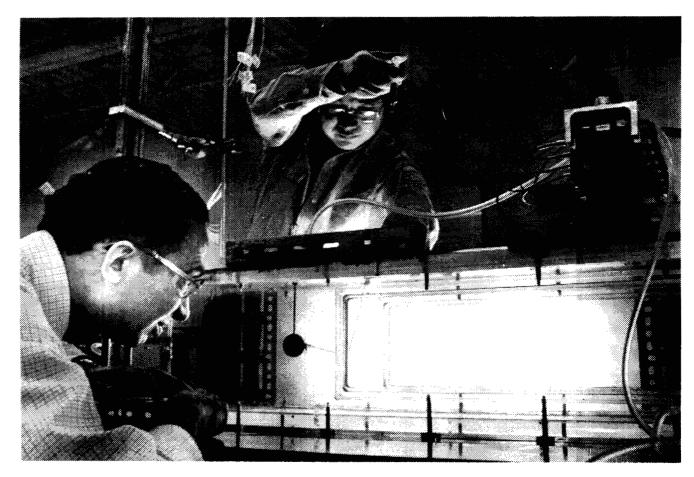
 Canada Mortgage and Housing Corporation Research Grants Type A (to \$2,500).

## Botanical guide has the answers

Ever wondered what the common name or the botanical name is for those curious shrubs and odd-looking trees that dot the UBC campus?

The answer to your question is probably noted on a new self-guided tour of campus trees and shrubs prepared by the UBC Botanical Garden. The tour map will enable you to become familiar with approximately 170 different plants found on the UBC campus.

Maps are available from the Botanical Garden offices at 6501 Northwest Marine Drive.



Engineering used to solve medical problems is one of the features of UBC's Open House this Friday and Saturday. The applied sciences — Agriculture, Engineering and Forestry — host Open House this year. Here the fluid dynamics of a heart valve are tested by mechanical engineering professor V.J. Modi, left, and Ph.D. candidate Toshi Akutsu.

## Senate approves new Law curriculum

UBC Senate has approved the second and final stage of a comprehensive curriculum review of the Faculty of Law.

The stage two proposals approved at Senate's February meeting represent a "reordering, reshaping and updating of the Law curriculum of the upper years," Law dean Kenneth Lysyk told UBC's academic parliament.

Senate last year approved extensive revisions of the first-year Law curriculum, which were implemented in the 1980-81 academic year.

Senate was told that the upper-year revisions assumed a generalist approach to legal education and recognized that the law is in a constant process of change. The proposals are also based on the assumption that the faculty should continue to offer "a well-rounded legal education that recognizes that most students will enter the practice of law."

Dean Lysyk said the changes involved introduction of new courses in such areas as industrial and intellectual property, the law of the sea, Japanese law, competition policy and a series of courses dealing with specific topics of contemporary interest which allow for experimentation in the presentation of a subject.

In addition to deleting 20 courses from the Law curriculum, the changes involve a renumbering of all courses as well as a restructuring of existing course material and Calendar descriptions to reflect more accurately what is being taught.

Specific terms of reference and a set of procedural rules have been approved for the UBC Senate's standing committee on appeals on academic standing.

Law professor A.J. McClean, speaking to the committee policies and procedures proposals at the February Senate meeting, said the generality of the committee's terms of reference and the lack of precise procedural rules "have been a source of difficulty to the committee, a source of annoyance and frustration for both students and faculty . . . involved in appeals, and could cause problems for the University if . . . a decision of the committee is the subject of an appeal to the courts."

The committee proposals, Prof. McClean said, were "in many respects . . . a statement of current practices and procedures of the committee."

In laying down some fairly precise guidelines, they also try to build in some flexibility so that they can be relaxed in any given appeal to ensure that an appeal is fairly conducted.

In speaking to proposed terms of reference for the committee, Prof. McClean said the committee hears appeals because students feel they've been unfairly treated in comparison with other students, where there's been a personality clash with an instructor, or because fair consideration has not

been given to a paper or some performance.

He emphasized that the committee has taken the view that it was not within their terms of reference to hear an appeal where that matter "is simply one of the bona fide exercise of academic judgment on, say, an exam paper."

A set of 10 procedures to be followed prior to a hearing involve three principals, Prof. McClean said: a reasonable time frame for appeals; an indication of the information the committee would find useful; and a built-in flexibility clause allowing the UBC registrar to extend time limitations set out in the regulations.

Only one regulation proposed by the committee was challenged with an amendment, which was lost.

Student senator Chris Niwinski proposed that a regulation calling for the dismissal of an appeal in the event of a tie vote by the committee should be amended so that the appeal would be allowed.

## CAMPUS PEOPLE

Prof. William S. Griffith, director of adult education in the Faculty of Education, has been honored by the Adult Education Association of the United States. He was the recipient recently of the association's Research to Practice Award for his significant leadership and research contributions to adult education over a period of 20 years.

The honorary degree of Doctor of Laws was conferred on Prof. A.D. "Tony" Scott, a member of UBC's economics department, by Guelph University in Ontario during recent fall Convocation ceremonies. Prof. Scott also gave the Convocation address at the ceremony.

Prof. of Dentistry Dr. S. Wah Leung, former dean of the Faculty of Dentistry, has been honored by the Chinese Benevolent Association of Vancouver. He received the association's Outstanding Citizen Award for leadership and organizing ability.

Allan R. Crawford, a member of UBC's Board of Governors, has been appointed for a two-year term as a member of the Natural Sciences and Engineering Research Council, which promotes and assists scientific research in Canada. Mr. Crawford is the founder and chairman of the board of Anatek Electronics of North Vancouver, and is a member of the Canadian Association of Physicists and the Association of Professional Engineers in Ontario.

# Federal funding critical

If the federal government withdraws its support of post-secondary education in a precipitous way, some Canadian universities will go under, President Doug Kenny told the UBC Senate at its February meeting.

"Some provinces don't put a nickel into universities," Dr. Kenny said. "It is all federal money."

Noting that the current 'Established Programs Financing' (EPF) scheme expires at the end of March next year, he expressed concern that anticipated changes will further crode the already poor financial position of Canadian universities.

President Kenny said few people in Canada are aware of the enormous increase in federal funding of universities since the end of the Second World War. Without that funding, he said, Canada would not have a network of excellent universities.

In the immediate postwar years, he said, Ottawa paid the universities \$150 for each war veteran enrolled. From 1951 to 1967, the federal government paid a per-capita grant direct to the universities, and then from 1967 to 1977 Ottawa paid 50 per cent of operating costs.

"They wrote a blank cheque to the provinces," Dr. Kenny said.

There was no ceiling, and it was a straight dollar for dollar match-up. "Regrettably, this system was

abandoned in 1977," he said.

The EPF system introduced in 1977 is not based on operating costs of universities, and the federal government imposes no restrictions on the money it turns over to the provinces. The provinces are not obligated to match the federal contribution.

In 1979-80, Dr. Kenny said, federal transfer payments totalled \$2.78 billion, and total grants to universities that year totalled \$3.15 billion, making Ottawa the major giver.

President Kenny said the federal government has never really received credit for what it has done for Canadian universities, and he agreed that the EPF system may not be the best way to go. He added, however, that the future welfare of Canada is dependent upon continued federal involvement.

"Universities are important to this nation as a whole," he told Senate.

Dr. Kenny said the federal government was setting up a sevenmember parliamentary committee to review the funding arrangements. This group would have until June 26 to report to the cabinet on the stand Ottawa should take in negotiations with the provinces.

Dr. Kenny urged senators to write to the task force, to the minister of state, the minister of finance, and to the prime minister. "I urge you to make your views known," he said.

Convocation senator Mary Bishop said the support of university women's clubs should be sought. She said there were a thousand members of the University Women's Club of Vancouver, and they were graduates of 45 universities.



UBC horticulturalists Elaine LeMarquand, left, and Margaret Coxon put the finishing touches on the UBC Botanical Garden's display at the 1981 Home and Garden Show which continues until Sunday (March 8) at the Pacific National Exhibition. Garden staff will provide free advice on plant propagation and invite you to bring samples of any plant problems.

## AWARDS

Beta Mothers' Auxiliary Award — An award in the amount of \$250 has been made available by the Mothers' Auxiliary of Beta Theta Pi Fraternity. The award will be made to the neophyte Beta who, in his first year in the fraternity, has demonstrated to the Selection Committee appropriate standards of scholarship, university activity, and service within the fraternity.

British Columbia Society of Orthodontists Charles C. Craig Memorial Scholarship — A scholarship in the amount of \$300 has been established by the B.C. Society of Orthodontists in recognition of the valuable contributions of Dr. Charles C. Craig to UBC and to the field of Orthodontics.

Ruth S. Bryson Soroptimist
Scholarship in Home Economics —
A scholarship in the amount of approximately \$400, the gift of the Soroptimist Club of New Westminster, will be made available to a student entering first year in the School of Home Economics.

Burnaby Public Library Picard
Memorial Bursary — A bursary in
the amount of \$500 has been made
available by the Trustees of the
Burnaby Public Library, in memory of
Marcelle Lucienne Eleonore Picard.
The award will be made to a student
entering second year in the School of
Librarianship, in need of financial
assistance, and demonstrating a
particular interest in public
librarianship.

W.G. Mitchell Memorial Service Scholarship — A scholarship in the amount of \$1,000 will be awarded annually by Thorne Riddell, to a graduate student entering the first year of the MBA or M.Sc. program, and who has expressed an interest in pursuing a career in Chartered Accountancy. An offer of summer employment between the first and second year of the program is included if the student is interested.

George L. Pickard Scholarship in Oceanography — This scholarship in the amount of approximately \$300 has been endowed by Dr. Pickard's many friends, colleagues and former students, on the occasion of his retirement in 1979. The award will be made to a student who has completed at least two years of graduate studies and who has displayed outstanding originality and promise of success in studies involving two or more of the multidisciplinary areas of oceanography.

Jessie Richardson Scholarship — An annual scholarship in the amount of approximately \$200 has been made available by her friends and colleagues in honor of Jessie Richardson's distinguished contribution to the development of theatre in British Columbia. The award will be made to a student entering the final year in the Department of Theatre who, in addition to achieving a high standard in Theatre Studies, has contributed generously and effectively to the department's program of stage production.

Suncor Fellowship in Business Administration — A fellowship totalling \$10,000 per annum has been made available for a three-year period commencing in the 1981/82 academic year, by Suncor, Inc. The award will be made on the recommendation of the faculty to a student in a doctoral program in the Faculty of Commerce and Business Administration.

Kimmy Y.C. Tong Memorial Bursary — As a memorial to Kimmy Y.C. Tong, who was a third-year student in Music at the time of her death in 1980, a bursary of approximately \$400 has been established for an undergraduate Music student majoring in General Studies, normally with concentration in piano.

UBC Association of Administrative and Professional Staff Scholarship — The Association of Administrative and Professional Staff at UBC has established a scholarship in the amount of \$500 for students beginning or continuing full-time studies at this university. Applicants will be considered in the following order: (1) children or spouses of AAPS members (2) AAPS members who have enrolled part-time in credit courses at UBC in the past year and are proceeding to a year of full-time studies.

Don Wright Scholarship in Music Education — This scholarship in the amount of \$500 has been established by Mr. Don Wright with the aim of strengthening instrumental music in the schools. The scholarship will be awarded to a full-time student in the music education program who has demonstrated a talent and achievement in the field of practical instrumental arranging and orchestration, with particular reference to music education.

Don Wright Scholarship in Vocal and Choral Music — This scholarship in the amount of \$500 has been established by Mr. Don Wright with the aim of strengthening the teaching of vocal and choral music in schools, especially in Grades 5 to 9. The scholarship will be awarded to a full-time student in the music education program who has demonstrated a special aptitude for vocal and choral music and the teaching of the same.

## The new Library proposal

A major redevelopment scheme for UBC's library has been proposed to replace most of the antiquated Main Library building and to accommodate the collections and new growth anticipated for the next 10 to 15 years. At an estimated cost of \$49 million, the new library would encompass almost 500,000 gross square feet (350,000 net) and would provide study space for more than 1,000 users.

## 12 branches on campus

The original library was built in 1925-26. A north wing was added in 1948, and a south wing and stack expansion in 1960. Additions were made on an early plan featuring closed stacks.

During the 50s and 60s the system grew with the campus, solving space needs by way of decentralization. Now there are 12 external branches, and the Asian Studies branch soon to open, plus a Library Processing Centre.

The Main Library remains a serious problem. Overcrowded, wasting much space, costly to operate, and deficient under the building code in respect to fire, earthquake and other concerns, it needs replacement.

The problems of the Main Library cannot be resolved in a remedial fashion for they are too many and too severe. Meeting code requirements alone would result in a net loss of 50-60,000 square feet. At a minimum cost of \$5 million, such remedial work would still leave an overcrowded, space-prodigal, costly library, extremely wasteful of both financial and human resources.

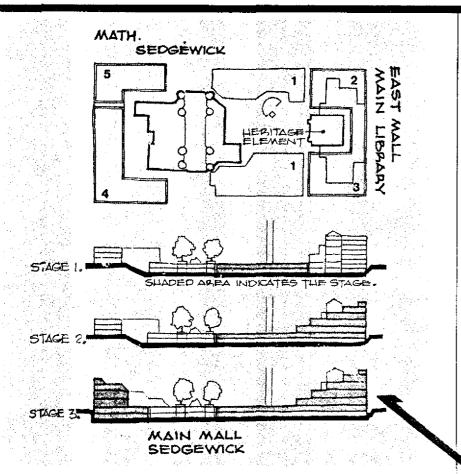
## **Designed for** good service

The architectural concept for the Main Library redevelopment project is a response to the goals and objectives developed by the University. The plans provide for a new Main Library that is open, bright and service-oriented. The new structure will have eight floors with two sub-surface wings connecting to Sedgewick Library.

The original building will be restored and will become the hub of the new complex. Surrounded by a skylit atrium, stairs, ramps and entries will converge on its two lowest floors. Special Collections could be displayed in its grand hall.

The new building will surround the old part with terraced and landscaped wings on either side. The Library garden between the Main Library and Sedgewick will be expanded, thereby minimizing the impact of the new building. Paths and stairs will carry pedestrians over the underground floors of the Library and down into the space below the Clock Tower.

The pool west of the main entrance will be maintained in its present position. Viewed from the Main Mall, the Library will integrate to a considerable extent into the landscape



Development stages. Stage 3 (4 and 5) shows longterm expansion possibility

## Heritage, trees preserved

A major entrance will open off the

An important feature of the design from the viewpoint of the campus is its looped concourse connecting East Mall to Main Mall. The existing entrance will remain and be connected by an additional stair to the main concourse and catalogue area. Handicapped users will have access to all areas by ramps or elevators.

The original greystone Library has won a place in the affections of many UBC people. Some see it as an attractive piece of architecture, some as an historical monument. (Others condemn it for its shortcomings, but they are a minority.)

There is a general agreement that the Library is both literally and figuratively the heart of the University The feeling is prevalent that the original structure should be preserved.

The design concept chosen focuses on the original library, as on the stone in a ring. It is set off with space so that it can be fully seen. The strengths of the structure would be emphasized

and its qualities augmented

#### Landscaping

A major policy directive in the development of the design concept was that the open space between the Main and Sedgewick Libraries must be maintained, the major trees preserved and existing pedestrian routes improved.

A firm of landscape architects was commissioned to survey the trees in the area, identify those of importance that could not be moved, those that could be relocated, those that could and should be replaced, and those of no particular value.

The design of the building has made it possible to retain all but one or two of the major trees in place, and to enhance the green space between the libraries. Most of the shrubs and other plants will be replaced.

Better pedestrian routes are provided by creating two mall routes through the buildings in addition to outdoor pathways over the underground structure.

## Precise staging will be critical

The proper location for a central library to serve the campus is right where the Main Library is now. This imposes a stringent condition on central library development. To keep all parts of the Library in full service during the years of construction, the whole plan has to be synchronized and staged in precise detail. The staging plan provides for:

- 1. 110,000 net square feet of new space is built in the form of two subsurface links connecting with Sedgewick.
- 2. The occupants of the north wing of the Main Library are relocated, that wing and part of the stacks demolished and rebuilt to a new plan.
- 3. The occupants of the south wing are relocated, that wing and the remainder of the stacks demolished and rebuilt.
- 4. The original Library is renovated.
- 5. Some relocation and internal readjustment is made.
- At best barring slow approvals. materials shortages, strikes, mistakes. natural disasters — the process will ke at least seven years.

Function, Growth and Change

The proposed facility will be zoned in such a way that most of the public areas and highly-used functions are

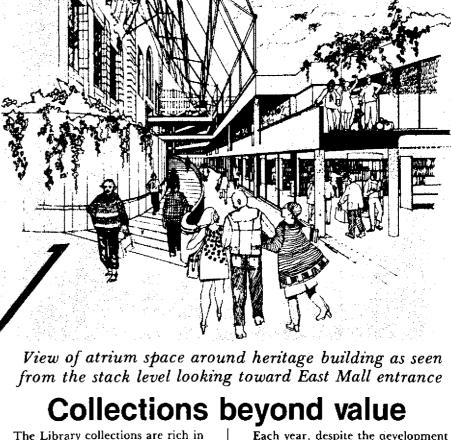
pedestrian mall. The lowest floor, on the same level as Sedgewick's stack level, will serve as the principal stack and study area. Natural light will come from skylights.

The central information point will be in the original Library, directly visible and accessible from both the present main entrance and the new entrance off East Mall. All other floors will step back towards the east from the third floor at ground level to the mechanical penthouse on the seventh floor. Open plan and large structural spans allow for flexible space for internal layout and will respond to the changing needs and modes of library service and operations.

#### Opportunities

The new Library will make it possible to bring some smaller branches back into the central building, and to deploy staff more effectively. Although capital costs will be high, the pay-off is expected to come about through better utilization of land, space, energy, staff and operating funds. It will be possible to provide better services in a larger building at minimal additional cost.

The new building should look after collections growth till the last years of the century. In the 21st century, the building could be expanded west of



The Library collections are rich in resources covering the broad range of UBC's teaching and research interests. Having been systematically developed for 65 years they contain much material that is no longer available at any price. Their real value is incalculable, but for insurance purposes the valuation exceeds \$160 million

Bound books and journals, the backbone of the collections, number 2.2 million volumes. Material in other formats - microforms, documents. recordings, films, maps, etc. amounts to 3,2 million items.

The collections grow by a quartermillion pieces every year. This continuous development is a necessary condition of keeping the Library a vital tool, responsive to the current and changing needs of its users.

It takes a lot of space to accommodate large working collections in a flexible, expansible arrangement in which users can find their own way. And the apparatus needed for use of some formats is also very spaceconsuming.

Each year, despite the development

of other ways of presenting information and ideas, more books are produced than the previous year. The estimate for 1981 is some 600,000 titles issued from the world's presses.

Library is a provincial resource

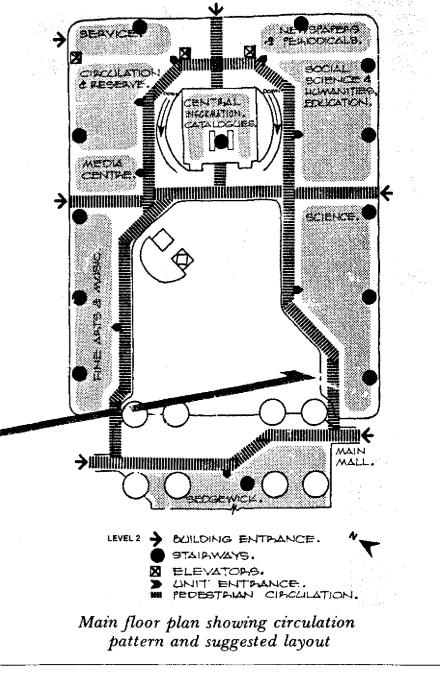
The main attraction of the UBC Library for the people and organizations of the province is its collections. Built for a major research university, those collections are of use and interest far beyond the campus.

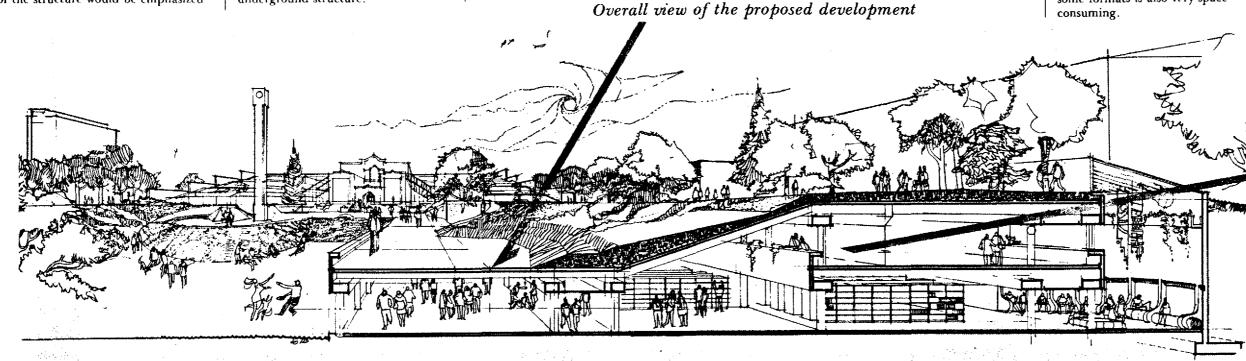
In the absence of a "Provincial Library", individuals, organizations and ther libraries turn to UBC for the needs they cannot satisfy from their own resources.

- \* Members of the public routinely use the collections, facilities and services on the premises.
- \* Faculty and graduate students of other B.C. universities and colleges borrow materials directly.
- \* Other persons and firms, on payment of a modest annual fee. borrow directly.
- \* Through interlibrary loans people throughout B.C. and elsewhere borrow from UBC.
- \* UBC Library and its staff have played major roles in the development of co-operative and networking arrangements in the province. Collections policies of other
- libraries particularly at post-secondary institutions, are predicated on UBC's extensive holdings.

The UBC Library has come to be. in practice but without official acknowledgement, a provincial library, a back-up to all other libraries in B.C., and a regional "library of last

EAST MALL.





Sectional view of south link between Sedgewick and Main, looking toward Main Library

## Income seminars planned

Two public seminars related to the controversial idea of a guaranteed annual income will be held at UBC on March 12 and 13.

The overall policy implications of a three-year experiment in Manitoba with a guaranteed income will be discussed by Prof. Derek Hum, a University of Manitoba economist who was a key figure in the federally funded experiment.

Prof. Hum will speak on Thursday, March 12, at 3:30 p.m. in Room 102 of the Buchanan Building on the Manitoba experiment, which saw several hundred low-income people receive income supplements from 1976 to 1978.

UBC economist Prof. Robert Clark, who has organized the seminars, said the Manitoba scheme was "the most sophisticated research experiment ever tried in this controversial field in North America. While the experiment was virtually completed, the results have not been published.'

Among other things, he said, the experiment was designed to test how the guaranteed income affected an individual's incentive to seek work.

The policy implications of a credit income tax, an alternative to the guaranteed income proposal, will be discussed at a second seminar to be given on Friday, March 13, at 3:30 p.m. in Room 102 of the Buchanan Building by Prof. Jonathan Kesselman of UBC's Department of Economics.

General discussion will follow the presentation of both papers.

## Living, Learning, Remembering

Robert England, Living, Learning, Remembering, Vancouver, UBC Centre for Continuing Education, 1980, 209pp., \$10.

This book contains the memoirs of Robert England, an outstanding Canadian who has had many connections with British Columbia over the years and who now lives in retirement in Victoria.

England has written many books and articles in his lifetime, most of them scholarly ones, on aspects of his work and on enterprises with which he has been connected. Best known among these are The Colonization of Western Canada, about immigration into the prairie region and settlement programs in the new communities there (1937); and Discharged, published during the Second World War and laying groundwork for the program of veteran rehabilitation with which he had so much to do. But his latest book is different. It is a highly personal record of a long and productive life, of motivating ideas, projects undertaken, people known and places visited.

This reviewer, having a particular interest in the field of adult education, is greatly impressed with the concern for adult education and adult development which runs as a thread or theme through England's life. Involvement in adult education in terms of classes and programs is a minor part of the story but is represented here in various forms, most notably for us at UBC in terms of England having been the first director of our Extension Department (1936-37). He remained in that post for only a year, but during that time set the direction for much subsequent



Robert England

development.

But England's main contributions to Canadian society have been elsewhere, in the broader field of social policies and services. They have had an important impact on our national development. As a young man, he and his wife were pioneers in the "lighted schoolhouse" movement in Saskatchewan, turning their small rural school into a cultural and social centre for the whole community. For most of the following decade he worked with the CNR, being concerned with the recruitment of immigrants in Europe and the

immigrant communities in Western Canada.

Soon after his time at UBC, he was drawn into the orbit of the federal government, his three great contributions there having to do with the organization of the Canadian Legion Educational Services, the creation of the rehabilitation program for veterans of the war (including particular reference to the universities' role in this work) and the organization of the Citizenship Branch of the government, leading to the Citizenship Act of 1947.

One of the unique dimensions of Robert England's life has been the extent to which he has been an "insider" in terms of the workings of large corporations and the federal government, and yet has made such leading and continuing contributions to the development of voluntary services of many kinds, the Boy Scout movement, local library activities, the Canadian Council on Education for Citizenship, the Canadian Association for Adult Education and many others.

As a nation, we have been slow in Canada to get around to doing justice to our social and cultural history, Robert England's career has been concerned with a number of significant dimensions of that story since the 1920s. His many writings, including this latest, most personal volume, constitute important contributions to our knowledge of Canada, its people and its history.

Living, Learning, Remembering, like all England's writings, is a work of scholarship and contains much useful information. But it is more; it is a statement, expressed in terms of how a life was spent, of what is most to be treasured and worked for in the Canadian story.

> Gordon Selman Faculty of Education, UBC

Living, Learning, Remembering is available from the Publications Division of UBC's Centre for Continuing Education, 5997 Iona Drive, Vancouver, telephone 228-2181.

## Students earned more, saved more in 1980

UBC students earned more and managed to save more in the summer of 1980, but only 21.7 per cent of male and 7.7 per cent of female students earned at least \$3,500, the estimated minimum amount necessary to finance a university year.

Figures compiled by UBC's Student Counselling and Resource Centre show

that median 1980 earnings for employed undergraduate men were \$3,551, an increase of \$282 over the 1979 median. This same group of male students reported mean savings of \$2,275, an increase of \$179 over

Women undergrads earned a median amount of \$2,469 in 1980, an

increase of \$266 over the 1979 median. Women undergrads reported mean savings of \$1,621, up \$170 over

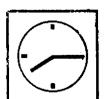
As in the past, students in Forestry and Applied Science reported the highest median earnings. Nearly 29 per cent of the students - 32.2 per cent of the women and 24.6 per cent of the men - said they had a parttime job during the winter session.

#### **UBC** Calendar Deadlines

For events in the weeks of March 22 and March 29, material must be submitted not later than 4 p.m. on March 12.

Send notices to Information Services, 6328 Memorial Rd. (Old Administration Building) For further information, call 228-3131

#### The Vancouver Institute.



Saturday, March 7

State of the Welfare State. Prof. Robert Leaper, C.B.E., Social Administration, University of Exeter.

#### Saturday, March 14 New Frontiers in

Biofeedback and Behavioral Medicine, Prof. Gary Schwartz, Psychology, Yale

University.

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

#### SUNDAY, MARCH 8 B.C. Gardens.

Eighth in a series of CBC television programs featuring the UBC Botanical Garden as an anchor point for a province-wide look at hor-ticulture. Hosts: David Tarrant, Botanical

Garden educational co-ordinator, and CBC per sonality Bob Switzer. Today's program looks at Nitobe Garden. CBC, Channel 3, 3:00 p.m.

Speaker Lynn Gottlieb, storyteller in the ancient tradition of chanting, sign language and move-ment to relate stories inspired by biblical sources and inner imagination. For more information, call 228-4748. Temple Shalom, 4426 W. 10th Ave. 7:30 p.m.

#### Guest Artist Josef Suk.

Music of Mozart, Brahms, Dvorak and Beethoven. Josef Suk, violin, and Jane Coop, piano. Recital Hall, Music Building. 8:00 p.m.

#### MONDAY, MARCH 9

#### Cancer Research Seminar.

Persistent Rubella Virus Infection in CNS. Diane Van Alstyne, Neurology, UBC. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12:00 noon.

#### Planetary Economics Series.

Niagara for Sale. Room 308, Library Processing Building, 12:30 p.m.

#### Lectures Committee Lecture.

Protecting Women or Preserving the Family? The Campaign for Protective Labor Legislation in France, 1874-1914. Dr. Mary Lynn McDougall, Women's Studies Programme, SFU. Room 204, Buchanan Building, 12:30 p.m.

#### Political Science Lecture.

The Soviet Role in the Mideast Conflict. Prof. Theodore Friedgut, Hebrew University of Jerusalem. Room 102, Buchanan Building.

#### Exceptional Person's Week.

Keynote speaker: Jill Kinmont (12:30 to 1:30 p.m.) in the Ballroom, Student Union Building. Wheelchair tour of UBC: (1:30 to 2:30 p.m.) leaves from the foyer of the Student Union Building. For more information, call

## **Human Nutrition/Home Economics**

Dietary Allowances and Dietary Guidelines, Dr. Alfred E. Harper, University of Wisconsin. Lecture Hall 2, Woodward Instructional Resources Centre, 1:30 p.m.

#### French Lecture.

Situation de la Langue Francaise au Quebec. Prof. J.D. Gendron, directeur, Centre du Bilinguisme de l'Universite Laval. Penthouse, Buchanan Building. 3:30 p.m.

#### Applied Mathematics Seminar. Eigenvalue Problems on Infinite Intervals. Dr.

Peter Markowich, Mathematics Research Center, Madison, Wisc. Room 203, Mathematics

#### Astronomy Seminar.

A Crisis in the Theory of Stellar Evolution. Dr. Icko Iben, Jr., Astronomy, University of Illinois. Room 318, Hennings Building, 4:00 p.m.

#### Lectures Committee Seminar.

Toxico Dynamics and Toxico Kinetics, Dr. Frederick Sperling, professor emeritus, Pharmacology and Toxicology, Howard University, Washington, D.C. Auditorium, B.C. Research Building. 5:00 p.m.

#### Home Economics Lecture.

National Nutrition Policies and Dietary Guidelines for the Public. Dr. Alfred E. Harper, Biochemistry, University of Wisconsin. Lecture Hall 2, Woodward Instructional Resources Cen-

#### Centre for Continuing Education Lecture.

Otello. Prof. French Tickner, Music, UBC. Admission is \$5. Room 339, Music Building.

#### TUESDAY, MARCH 10

Asian Research Noon-Hour Series. Islam. Room 106, Buchanan Building. 12:30 p.m.

Continued on page 7

Continued from page 6

#### Tuesday, March 10 continued

#### Weekly Weather Briefing.

Weekly lunch hour weather map discussions are held every Tuesday. All interested students, faculty and staff are invited to attend. Room 215, Geography Building, 12:30 p.m.

#### Exceptional Person's Week.

The following lectures will be taking place from 12:30 to 1:30 p.m.: Linda Jentsch on Music and the Visually Impaired. Room 1317, Scarfe Building; Barbara Dalrymple on Designing a Barrier-Free Environment. Room 107, Lasserre Building; Glenn Williams on An Exceptional Student in Your Class? Room 219, Buchanan Building. The following lectures will be taking place from 1:30 to 2:30 p.m.: Social Planning and Review Council of B.C. on Services for the Exceptional in B.C. Room 210, Scarfe Building; Betty Ife on Experiencing Hearing Impairment. Room 204, Scarfe Building; Dr. Peggy Koop-man on The Learning Disabled University Stu-dent. Room 201, Scarfe Building.

#### Undergraduate Physics Lecture.

Research on Controlled Fusion Using Magnetic Confinement — The Varennes Tokamak Project. Dr. H.W.H. Van Andel, University of Montreal. Room 201, Hennings Building.

#### Linguistics Colloquium.

Features of the Larynx: Evidence from Dakota. Patricia Shaw, Linguistics, UBC. Penthouse, Buchanan Building. 12:30 p.m.

#### The Doctor and the Others Series.

Clinical Medicine in the Pre-Scientific Age. Dr. John Norris. First in a series of nine illustrated lectures on the history of medicine. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

#### Religious Studies Lecture.

From Paul to Batman: Paul's Struggle with the Superapostles and Its Bearing on Modern Entertainment. Dr. Robert Jewett, New Testament Interpretation, Garrett-Evangelical Theological Seminary. Room 100, Buchanan Building. 12:30 p.m.

#### Hillel House Lecture.

Louise Mandel, lawyer for B.C. Union of Indian Chiefs. Hillel House. 12:30 p.m.

#### Slavonic Studies Seminar.

Plays from the Underground - Czech Theatre Today. Dr. Marketa Goetz-Stankiewicz, head, Germanic Studies, UBC. Room 2202, Buchanan Building. 3:30 p.m.

#### Oceanography Seminar.

Large Internal Solitons Observed in Davis Strait. Dr. D.O. Hodgins, Seaconsult Marine Research Ltd., Vancouver, B.C. Room 1465, Biological Sciences Building. 3:30 p.m.

#### Chemistry Research Conference Series. We've Put our Hopes on Fischer-Tropsch: The Hydrogenation of Carbon Monoxide. Dr. K.G.

Caulton, Chemistry, Indiana University. Room 250, Chemistry Building. 4:30 p.m.

#### Zoology Seminar.

Heat and Cold: Strategies for Survival. Dr. K. Schmidt-Nielsen, Zoology, Duke University. Room 2000, Biological Sciences Building. 4:30 p.m.

#### Lectures Committee Seminar.

Toxicology: Applications to Occupational Exposures. Dr. Frederick Sperling, professor emeritus, Pharmacology and Toxicology, Howard University, Washington, D.C. Auditorium, B.C. Research Building. 5:00 p.m.

#### WEDNESDAY, MARCH 11

#### **Human Nutrition/Home Economics** Lecture.

Diet, Blood and Brain Amino Acids and Feeding Behavior. Dr. Alfred E. Harper, University of Wisconsin. Lecture Hall 1, Wood ward Instructional Resources Centre.

#### Science and the Citizen.

Discovering the Limits of Science and Technology. Dr. Edwin Levy, Philosophy, UBC. Robson Square Media Centre. 12:00 noon.

#### Exceptional Person's Week.

llowing lectures will be taking place from 12:30 to 1:30 p.m.: People First on Rights of the Mentally Handicapped. Room 204, Buchanan Building; Peggy Sax on The Parent-Professional Partnership. Room 204, Scarfe Building; Lois Meyerhoff on The Law and the Exceptional. Room 225, Buchanan Building.

#### Classics/French Lecture.

Tertullien et La Culture Antique. Prof. Jean-Claude Fredouille, Latin, University of Lyon. Penthouse, Buchanan Building. 12:30 p.m.

#### Simulation and Modelling in Science.

Identification of Parameters in Models of Population Dynamics. Dr. Carl Walters, Animal Resource Ecology, UBC. Ralph York Conference Centre, Hut B-8. 12:30 p.m.

#### Ascent of Man Series.

World Within World, Room 308, Library Processing Building, 12:30 p.m.

#### Wednesday Noon-Hour Concert.

Chinese Music for Winds and Strings, Ming-Yueh Liang and Chu-i Tao. Recital Hall, Music Building, 12:30 p.m.

#### Hispanic and Italian Studies Film. Vivaldi's Venice, Room 102, Buchanan Building, 12:30 p.m.

The Doctor and the Others Series. The Wedding of Clinical and Scientific Medicine. Dr. John Norris. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

#### Health Sciences Students Committee Lecture.

Coping with Stress. Ada Butler, Nursing, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 12:30 p.m.

#### Management Science Seminar.

Generalized Convexity of Special Functions. Prof. Siegfried Schaible, Business Administration and Commerce, University of Alberta. Room 312, Angus Building. 3:30 p.m.

#### Statistics Workshop.

Some Methodologie Aspects of Large-Scale Double-Blind Trials. Prof. T.W. Anderson, head, Health Care and Epidemiology, UBC. Room 239, Geography Building. 3:30 p.m.

#### Animal Resource Ecology Seminar.

Lake Tahoe – 20 Years of Change in a Nitrogen-Deficient Oligotrophic Lake. Dr. Charles R. Goldman, Environmental Studies, University of California, Davis. Room 32, Hut B-2. 4:00 p.m.

#### Librarianship Lecture.

An Holistic View of Librarianship. Prof. Rose Vainstein, Library Science, University of Michigan. Admission is free. Room 1, Robson Square Media Centre. 8:00 p.m

#### Cinemawest.

Easy Rider. Admission is \$1 with AMS card. Auditorium, Student Union Building. 8:00 p.m.

#### French Lecture.

La Planification Linguistique au Quebec. Prof. J.D. Gendron, directeur, Centre du Bilinguisme de l'Universite Laval. Room 106, Buchanan Building. 8:30 p.m.

#### UBC Public Affairs.

Understanding the Polish Experiment. Dr. Antoni Kaminski, Sociology, University of Warsaw, and Prof. Bogdan Czaykowski, Slavonic Studies, UBC, with host Gerald Savory. Cable 10, Vancouver Cablevision. (Program will be repeated on March 11 at 3:00 p.m.) 9:00 p.m.

#### THURSDAY, MARCH 12

#### Medical Grand Rounds.

Review and Update of Thyroid Hormone Physiology and Tests. Dr. S.C. Thorson, Medicine, VGH. Lecture Hall B, Vancouver General Hospital. 9:00 a.m.

#### Human Nutrition/Home Economics

Metabolism of Branched-Chain Amino Acids in Muscle: Experimental Observations and Clinical Implications. Dr. Alfred E. Harper, University of Wisconsin. Room G-55, Woodward Instruc tional Resources Centre. 10:30 a.m.

#### Fine Arts Faculty Lecture.

Pre-European Contact Masks of the Northwest Coast. Prof. Alan Sawyer. Room 104, Lasserre Building. 12:30 p.m.

#### Faculty Recital.

Music of Schumann and Schubert. Lee Kum-Sing, piano. Recital Hall, Music Building. 12:30 p.m.

#### H.R. MacMillan Lecture.

The Designed Forest System of MacMillan Bloedel Limited - an Example of Industrial Forest Management in Coastal British Columbia. Grant Ainscough, vice-president, Mac-Millan Bloedel. Admission is free. Room 166, MacMillan Building. 12:30 p.m.

#### Cinemawest.

Easy Rider. Admission is \$1 with AMS card. Auditorium, Student Union Building.

#### The Doctor and the Others Series.

Clinical Medicine in the last part of the Twentieth Century: The Prospect Before Us. Dr. John Norris. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

#### Lectures Committee Lecture.

Visual Rhetoric in Julius Caesar and Hamlet. Prof. David Bevington, English, University of Chicago. Room 202, Buchanan Building.

#### Religious Studies Lecture.

From Samson to the Hulk: Delimiting the Superheroes in Ancient and Modern Culture. Dr. Robert Jewett, New Testament Interpretation, Garrett-Evangelical Theological Seminary. Room 100, Buchanan Building, 12:30 p.m.

#### Exceptional Person's Week.

The following events will be taking place from 12:30 to 1:30 p.m.: Wheelchair Basketball Game in War Memorial Gymnasium; Dr. G. Szasz on Sexuality and the Exceptional. Room 201, Scarfe Building. The following events are taking place from 1:30 to 2:30 p.m.: Rick Hansen and Stan Stronge on Wheelchair Sports. War Memorial Gymnasium; Visually Impaired Student Association on The Visually Impaired on Campus How Can You Help?; Tim Lewis on Rights of the Exceptional. Room 219, Buchanan Building.

#### Fine Arts Lecture.

Making a Picture of Haussmann's Paris. Dr. Timothy J. Clarke, Fine Arts, Harvard University. Room 102, Lasserre Building. 12:30 p.m.

#### Faculty Association General Meeting. Room 100, Mathematics Building, 1:00 p.m.

Physics Condensed Matter Seminar. Fluctuation Induced First Order Phase Transitions, David Mukamel, I.B.M. Yorktown Heights, Room 318, Hennings Building.

#### Management Science Seminar.

Prof. R. Grinold, University of California, Berkeley, and Cermade, University de Paris, Dauphine. Room 312, Angus Building.

#### Physics Colloquium.

Some Medical Aspects of the Applied Science Program at TRIUMF. Dr. B.D. Pate, associate director, TRIUMF. Room 201, Hennings Building, 4:00 p.m.

#### Distinguished Medical Research Lecture.

Calcium and the Kidney. Dr. Roger Sutton, Medicine, UBC. Lecture Hall B, Vancouver General Hospital. 4:00 p.m.

#### Planning Lecture.

Mayor Michael Harcourt speaks on Government Turned Private Developer. Room 110, Angus Building, 7:00 p.m.

The Shining. Continues until Sunday, March

#### Subfilms.

15. Admission is \$1 with AMS card. Auditorium, Student Union Building. Showings are at 7:00 and 9:45 p.m. CUSO Jamaica Night.

Speaker Noga Gayle and film: Rastaman - on the Rastafarian Movement in Jamaica.

Admission is \$1. You can pre-register by calling 228-4886. Upper Lounge, International House.

#### FRIDAY, MARCH 13

#### Pediatric Grand Rounds.

I gE Regulation and the Clinical Significance of I gE-Testing in Children. Dr. Bengt Bjorksten, director, Explorative Biology, Pharmacia Allergy, Uppsala, Sweden. Lecture Hall B, Heather Pavilion, Vancouver General Hospital.

#### Religious Studies Presentation.

Desa Bakan, Indonesia: the Mixture of Islam with Magic. Illustrated with slides and a film. Religious Studies 100 students presentation. Marcia Whitaker, Tazmin Damji and Farouk Mitha. Room 102, Buchanan Building. 12:30 p.m.

#### Exceptional Person's Week.

Attitudes Toward the Exceptional. Donna Pistell. Party Room, Student Union Building. 12:30 p.m

#### Women's Studies/Slavonic Studies Lecture.

The Rise of Feminism in the USSR. Tatiana Mamonova. Co-sponsored by the AMS Women's Committee, Women's Studies department and the Slavonic Studies department. Room 202, Buchanan Building. 12:30 p.m.

#### Medical Genetics Seminar.

Hereditary Liver Disease in Childhood. Dr. J. Dimmick. Fourth Floor Conference Room, Health Centre for Children. 1:00 p.m. Developmental Medicine Seminar.

## Transition: Water to Air Breathing. Dr. David Randall, Zoology, UBC. First Floor Seminar

oom, Willow Pavilion, Vancouver General Hospital. 1:00 p.m. Management Science Seminar. Prof. R. Grinold, University of California,

Berkeley and Cermade, University de Paris, Dauphine. Room 412, Angus Building.

### Linguistics Colloquium.

Classifier Categories in Thai: or What Have Oxcarts, Candles, Umbrellas and Souls to Do With Each Other? Jim Placzek, Linguistics, UBC. Room 2225, Buchanan Building. 3:30 p.m.

#### Chemical Engineering Seminar.

A Digital-Analog Simulation of a PWR Secondary Coolant System. S. Howell. Room 206, Chemical Engineering Building. 3:30 p.m.

#### International House.

Folk Night. Contemporary and traditional music. Gate 4, International House. 7:00 p.m.

#### **UBC** Chamber Singers.

Cortland Hultberg, director. Recital Hall, Music Building. 8:00 p.m.

#### SATURDAY, MARCH 14

#### German Contribution to B.C. Culture Seminar.

Sponsored by the Canadian Association of University Teachers of German and the Centre for Commung Education. The seminar continues Sunday, March 15 from 9:30 a.m. to 1:30 p.m. Fee is \$12; \$15 at door. For more information, call 228 6403. International House. 9:30 a.m. to evening

#### German Poetry and Prose Readings.

Readings by contemporary German authors, Andreas Schroeder and U. Schaffer. For more in formation, call 228-6403 or 228-2181. Conference Room, Centre for Continuing Education, 8:00 p.m.

#### SUNDAY, MARCH 15

#### B.C. Gardens.

Ninth in a series of CBC television programs featuring the UBC Botanical Garden as an anchor point for a province-wide look at horticulture. Hosts: David Tarrant, Botanical Garden educational co-ordinator, and CBC personality Bob Switzer. Today's program looks at Oliver Orchardists. CBC, Channel 3. 3:00 p.m.

#### MONDAY, MARCH 16

#### Planetary Economics Series.

The Good Life. Room 308, Library Processing Building. 12:30 p.m.

#### Lunchtime Theatre.

Very, Very Fragile, a one-act play by local playwright, Ann St. James. Admission is free. Dorothy Somerset Studio. (Show will be repeated on Tuesday and Wednesday). 12:30 p.m.

#### Leon & Thea Koerner Foundation Lecture.

Sade: Des Chiffres, des Lettres, de l'enfermement. Marcelin Pleynet, Editor, Tel Quel Magazine, Paris. Room 102, Lasserre Building. 12:30 p.m.

#### Anthropology and Sociology/Theatre Presentation.

Presentation of ethnographic films, Imaginero and Luther Metke at 94. Jorge Preloran, Theatre, University of California. Room 151, Brock Hall. 1:30 p.m.

#### Computing Centre Lecture.

MIDAS. The first in a series of 6 lectures on the Michigan Interactive Data Analysis System, by Mr. P. de Jong of the UBC Computing Centre. Advance registration required: call 228-6611. Room 447, Computer Sciences Building. 2:30 p.m. History Colloquium.

## Graffiti in History: The Beginnings of Dutch Resistance to the Nazis, 1940-1941. Prof. Peter N. Moogk, History, UBC. Room 221, Buchanan

Building. 3:30 p.m. Applied Mathematics Seminar. Non-linear Hyperbolic Equations and Waves. Prof. Alan Jeffrey, Engineering Mathematics, University of Newcastle-upon-Tyne. Room 203,

#### Mathematics Building. 3:45 p.m.

Astronomy Seminar. Ultraviolet Spectrophotometry of Nuclei of Spiral Galaxies. Dr. P.M. Gondhalekar, IUE, Villafranca, Spain. Room 318, Hennings Building. 4:00 p.m.

#### Zoology "Physiology Group" Seminar.

Hot and Cold-Blooded Flying Insects. Dr. B. Heinrich, Zoology, University of Vermont, Burlington, Vermont. Room 2449, Biological Sciences Building, 4:30 p.m.

#### Recreation and Leisure Studies Lecture Series.

Ocean Kayaking. Venezeula to Florida by Kayak: a lecture and slide presentation with an opportunity for questions and comments. Presented by John Dowd, a freelance photographer/writer who recently earned his place in the Guinness Book of Records with this expedition. Lecture Hall 3, Woodward Instructional Resources Centre. 7:30 p.m.

#### TUESDAY, MARCH 17

Asian Research Noon-Hour Series. Taoism. Room 106, Buchanan Building.

#### 12:30 p.m. Weekly Weather Briefing.

Weekly lunch hour weather map discussions are held every Tuesday. All interested students, faculty and staff are invited to attend. Room 215. Geography Building. 12:30 p.m.

Continued on page 8

continued from page 7

#### Tuesday, March 17 continued

#### Hewitt Bostock Lecture.

The Tragedy of German Liberalism, 1848-1871. Dr. Adolf Birke, History, University of Toronto. Room 100, Buchanan Building. 12:30 p.m.

#### The Doctor and the Others Series.

Galenism and its Survival. Dr. John Norris. Lecture Hall B, Vancouver General Hospital.

#### Computing Centre Seminar.

Producing Papers with FMT. A 2-hour seminar on how to produce large documents or thes with FMT, by Mr. J. Nightingale of the UBC Computing Centre. Advance registration required: call 228-6611. Room 447, Computer Sciences Building. 2:30 p.m.

## Anthropology and Sociology/Fine Arts/Political Science Lecture.

The Political Sociology of the State (in French). Henri Lefebvre, Paris. Room 207, Anthropology and Sociology Building. 2:30 p.m.

#### Oceanography Seminar.

Barium as a Biological Productivity Indicator in Pelagic Sediments. Dr. E. Suess, School of Oceanography, Oregon State University. Room 1465, Biological Sciences Building. 3:30 p.m.

#### Biomembrane Discussion Group Seminar.

The Production, Physical-Chemical Properties and ATP-ase activities of Fatty Acid, Homogenous Acholeplasma Laidlawii B. Dr. R.N. McElhaney, Biochemistry, University of Alberta. Lecture Hall 1, Woodward Instructional Resources Centre. 4:00 p.m.

#### Chemistry Research Conference Series.

Oxygen - A Toxic Element? Dr. H.A.O. Hill, Inorganic Chemistry Laboratory, Oxford University. Room 250, Chemistry Building. 4:30 p.m

#### Faculty Recital.

Music of Hotteterre, Blavet, Mondonville, Boismortier and Dieupart. The Baroque Flute in 18th-Century France. Paul Douglas, baroque flutes: Doreen Oke, harpsichord; Nan Mackie, viola de gamba and John Sawyer, baroque violin. Recital Hall, Music Building. 8:00 p.m.

#### WEDNESDAY, MARCH 18

#### Science and the Citizen.

Genetic Engineering: Present and Future. Prof. Robert C. Miller, Microbiology, UBC. Auditorium, Robson Square Media Centre. 12:00 noon

#### Ascent of Man Series.

Knowledge or Certainty. Room 308, Library Processing Building. 12:30 p.m.

#### Wednesday Noon-Hour Concert. Music of Schubert and Brahms. Detlef Kraus, piano. Recital Hall, Music Building. 12:30 p.m.

The Doctor and the Others Series. The Evolution of a Scientific Pathology. Dr. John Norris. Lecture Hall B, Vancouver General

#### Hospital. 12:30 p.m. Geophysics Seminar.

Mechanics of Glacial Erosion. Dr. Bernard Hallet, University of Washington, Seattle, Washington. Room 260, Geophysics and Astronomy Building. 4:00 p.m.

## Animal Resource Ecology Seminar.

Exploiting a Patchy Environment: A Field Study of the Black Oystercatcher Foraging in the Rocky Intertidal. Dr. Sarah Groves, Zoology, UBC. Room 32, Hut B-2. 4:00 p.m.

#### Senate Meeting.

A limited number of tickets for the observers' gallery are available and must be applied for at least 24 hours in advance of the meeting. Call Frances Medley, clerk to Senate, 228-2951 Senate meets in the Board and Senate Room, Old Administration Building. 8:00 p.m.

#### THURSDAY, MARCH 19 Energy Management Program.

Sponsored by the Centre for Continuing Education, Playing Energy to Win is a two-day program on energy management for municipalities. You must register by March 5. Fee is \$125. The program runs from 9 a.m. to 10 p.m. today and from 9 a.m. to 3.30 p.m. on Friday, March 20. For more information, call 228-2181, locals 259 or 260. Sheraton-Landmark Hotel, 1400 Robson Street.

#### Medical Grand Rounds.

Multiple Sclerosis. Dr. D.W. Paty, Neurology Vancouver General Hospital. B Lecture Hall Vancouver General Hospital. 9:00 a.m.

#### Information Display and Craft Fair.

To increase awareness of exceptional people in the 1981 International Year of Disabled Persons. students in the School of Rehabilitation Medicine are co-ordinating a display and craft fair to give exceptional people an opportunity to share their abilities and needs with the general public. For more information, call 228-7392. Conversation Pit, Student Union Building. 12:00 noon to 9:00 p.m.

#### Fine Arts Faculty Lecture.

An Art Historian's View of Early Chinese Bronzes, James Caswell. Room 104, Lasserre Building, 12:30 p.m.

#### Simulation and Modelling in Science.

Computers and Artificial Intelligence. Dr. Raymond Reiter, Computer Science, UBC. Room 1100, Mathematics Annex. 12:30 p.m.

#### Resource Management Science/Soil Science Lecture.

Integrated Land Use in Switzerland, Dr. H. Schreier, Room 154, MacMillan Building. 12:30 p.m.

#### University Choral Union.

Music of Britten, Vaughan Williams, Gabrieli and Bartok. James Fankhauser, director. In Memoriam of Kimmy Y.C. Tong (1958-1980). Recital Hall, Music Building, 12:30 p.m.

#### World University Services of Canada.

To Live in Freedom. Room 205, Buchanan Building. 12:30 p.m.

#### The Doctor and the Other Series.

Disease, Diagnosis and Treatment: the Example of Syphilis. Dr. John Norris. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

#### Women Students' Office Lecture.

Interview Techniques. Dr. Lorette K. Woolsey, director, Women Students' Office. Room 223, Brock Hall. 12:30 p.m.

#### Physics Condensed Matter Seminar.

Quantum Size Effects in Metals. Jos Perenboom, UBC. Room 318, Hennings Building. 2:30 p.m.

#### Slavonic Studies Seminar.

Yugoslavia After Tito. Dr. Lenard Cohen, Political Science, SFU. Penthouse, Buchanan Building, 3:30 p.m.

#### Physics Colloquium.

The Study of Molecular Reorientation in Liquids. Dr. F.G. Herring, Chemistry, UBC. Room 201, Hennings Building. 4:00 p.m.

Close Encounters of the Third Kind. Continues until Sunday, March 22. Showings are tonight at 7:00 p.m., 7:00 and 9:30 p.m. on Friday and Saturday, and 7:00 p.m. on Sunday. Admission is \$1 with AMS card. Auditorium, Student Union Building.

#### Vanier Institute of the Family Lecture.

The Place of the Family in Times of Transition. Dr. Elise Boulding, Sociology, Dartmouth College. Admission is free. For more information, call 228-2181, local 261. Lecture Hall 2, Woodward Instructional Resources Centre. 8:00 p.m.

#### FRIDAY, MARCH 20

#### Pediatric Grand Rounds.

A Perspective of Head Injuries in Childhood. Dr. Leslie Andrews. B Lecture Hall, Heather Pavilion, Vancouver General Hospital 9:00 a.m.

#### Developmental Medicine Seminar.

Serendipity and Calcium Regulation, Dr. D.H. Copp, Physiology, UBC. First Floor Seminar Room, Willow Pavilion, Vancouver General Hospital. 12:30 p.m.

#### Medical Genetics Seminar.

Clinical Investigation of Hereditary Neurodegenerative Diseases, Dr. P.M. MacLeod Fourth Floor Conference Room, Health Centre for Children. 1:00 p.m.

#### Geological Sciences Seminar.

Canadian Deepwater Carbonate Deposits; Distinction from Analogous Siliclastic Deposits and their Hydrocarbon Potential. Dr. Ian McIrath, Agat Consultants Ltd., Calgary, Alberta. Room 330A, Geological Sciences Building, 2:30 p.m

#### Linguistics Colloquium.

Acquisition of Cantonese Phonology; a Case Study. Sou-mee Tse, Linguistics, UBC. Room 2225, Buchanan Building. 3:30 p.m.

#### Women's Invitational Tennis

Tournament.

Tennis teams from UBC, the University of Puget Sound and Washington State and Portland State Universities will compete in this two-day

tournament, which continues tomorrow. Play begins today at 4:00~p.m. and last match is scheduled for 10:00~p.m. UBC Armory.

#### You Don't Retire Alone.

A weekend retreat for couples approaching retirement. Sponsored by the Centre for Continuing Education. Runs from 7:00 p.m. tonight to 1:00 p.m. on Sunday, March 22. For more information, call 228-2181, local 285. Harrison Hot Springs.

#### University Choral Union.

Repeat Program of March 19th, James Fankhauser, director, Recital Hall, Music Building, 8:00 p.m.

#### SATURDAY, MARCH 21

#### Women's Invitational Tennis Tournament.

Second and final day of play gets underway at 8:00 a.m. Last match is scheduled for 6:00 p.m. UBC Armory.

#### Rugby.

UBC Thunderbirds vs. Kats Rugby Club. Thunderbird Stadium. 2:30 p.m.

### Notices...

#### Fine Arts Gallery

The Exoskeletons of Evil, an exhibition by Jan Menses runs until March 28 in the UBC Fine Arts Gallery, located in the basement of the Main Library.

#### Asian Centre Inaugural Activities

To celebrate the completion of the Asian Centre. Asianists on the UBC campus will be presenting a number of inaugural activities presenting a number of inaugural activities preceeding and following the official June 5 opening ceremony. These will include lectures, artistic performances, exhibitions, movies, etc. The committee co-ordinating the events consists of professors Ashok Aklujkar (Asian Studies), Tissa Fernando (Anthropology-Sociology), M.Y. Liang (Music), Terence McGee (Geography and Institute of Asian Research), and Mr. Gerald Savory (Continuing Education). Interested in dividuals or organizations are invited to contact one of the members of the committee for more information

#### **Doctoral Oral Exams**

Tuesday, March 10: David Shaun Gray, Psychology, on Antinociceptive and other Behavioral Effects of Abnormal Vestibular Stimulation in the Rat. 1:30 p.m.
Friday, March 13: Francis J. Wilfling,
Psychology, on Psychophysiological Correlates of
Low Back Pain. 3:30 p.m.

#### Faculty and Staff Golf Tournament

All faculty and staff, active and retired, are invited to the 25th annual golf tournament on Thursday, April 30 at the University Golf Course. If you don't play golf, join in later for the silver anniversary dinner at the Faculty Club. Tee-off times are 9 a.m. to 12 noon. Green fees, \$8; dinner, \$17. For advance tee-off reservations, call Dr. Whittle, 228-5047 or 228-3838.

#### Campus Religious Services

Vancouver School of Theology Anglican rite at 7:30 a.m. Monday Friday (Eucharist on Monday, Wednesday, Friday; morning prayer on Tuesday and Thursday); Ecumenical community worship at 10:15 a.m. on Thursday; United Church service at 8:30 a.m. Tuesday. Chapel of the Epiphany, Chancellor Boulevard. St. Mark's College Mass at 12:30 and 4:30 p.m. Monday Saturday and at 9:30 and 11:30 a.m. and 4:30 p.m. on Sunday. 5935 Iona

Regent College — Service at 11:30 a.m. Tuesday. 2120 Wesbrook Mall.
St. Andrews Hall — Service at 11 a.m. Sunday Service at 11 a.m. Sunday. 6040 Iona Drive.

Lutheran Campus Centre Sunday services at 9:30 and 11:30 a.m. and 7 p.m. and Eucharist on Tuesdays at 12:30 p.m., 5885 University Boulevard

Quaker Worship Group - Meets Wednesday at 12:30 p.m. in Room 213 of The Student Union Building.

meetings held each Thursday at 12:30 p.m. in Room 117 of the Student Union Building.

#### Faculty Club Display

An exhibition of contemporary tapestries woven by Madeline Darling and Varda Ben-Tal will be on display at the Faculty Club until March 14.

#### English as a Second Language

Starting Feb. 23, the Language Institute will be offering part-time courses for the student whose second language is English. "Effective Communication" and "Practical Spoken English" are amongst two of these 24- and 36-hour courses being offered. For registration information, call 228-2181, local 285.

#### Frederic Wood Theatre

The Frederic Wood Theatre presents The Rivals by Richard Brinsley Sheridan Wednesday, March 4 through Saturday, March 14 (except Sunday). Admission is \$5.50; \$3.50 for students. For ticket reservations, call 228-2678 or drop by Room 207 of the Frederic Wood Theatre

#### Functional Fitness Appraisal Available

The John M. Buchanan Fitness and Research Centre is administering a physical assessment program available to students, faculty, staff and the public. A complete assessment takes approximately one hour and encompasses various fitness tests, an interpretation of results, detailed counselling and an exercise prescription. \$15 for students; \$20 for others. For more information, call 228-3996 or enquire at Recreation UBC, Room 203, War Memorial Gymnasium.

#### Library Exhibit

Four Women Four Arts. An exhibition of ar of Ethel Wilson, writer; Jean Coulthard Adams, musician; Emily Carr, writer and painter; and Joy Coghill Thorne, actress and director. The exhibition runs until March 14 in the special collections division, top floor, Main Library.

#### Nitobe Garden Hours

Nitobe Garden will be open 10 a.m. to 3 p.m. weekdays, and from 10 a.m. to half an hour before sunset weekends.

#### World University Services of Canada

World University Services of Canada has job openings for teachers and technical staff various third world countries. They are also administering applications for United Nations Volunteer Service. For more information, contact WUSC, Box 3000, Stn. C, Ottawa, K1Y 4M8. Information is also available at the UBC Student Counselling and Resources Centre.

#### Language Courses

Centre for Continuing Education offers conver-sational French and Spanish courses and language teaching technique courses (non-credit) for six weeks beginning the week of March 2. For more information, call 228-2181, local 227.

#### Museum of Anthropology

Exhibits: Salish Art: Visions of Power, Symbols of Wealth; Kwagiutl Graphics: Tradition in a New Medium; West Coast Graphics: Images of Change; Imperial Power: Coins, Keys, Seals, Weights and Sculptures from the Roman and Byzantine Courts.

Free Identification Clinics: March 31, April 28 and May 26 from 7:00 to 8:30 p.m.

Snake in the Grass Moving Theatre: Clowns

Garbanzo and Koko give Sunday performances
at 2:00 p.m. until March 29. Free with museum

admission.

Museum of Anthropology community video programs: Programs air Tuesday evenings at 7:00 p.m. on Cable 10 on March 10, 24 and April 7, 14. Shows will be repeated at 4:30 p.m. on the following Thursdays and at 6:00 p.m. on the following Saturdays. Cable 10 Northshore shows the programs 12 days after original broadcasts Museum hours are: noon to 9:00 p.m. on Tuesdays; from noon to 5:00 p.m. Wednesdays through Sundays, and is closed Mondays.

#### Residence Applications

Applications for accommodation on campus for the 1981-82 winter session are now being accepted. Space is limited so submit applications as soon as possible. Applications for the 1981 summer residence program will be accepted arting March 1f For more informa-228-2811.



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UBC Reports is published every second Wednesday by Information Services, UBC, 6328 Memorial Road, Vancouver, B.C., V61-1W5, Telephone 228 3131. Al Hunter, editor. Lone Chortyk, calendar editor. Jim Banhain. contributing editor ISSN 0497-2929