

# UBC Reports

Volume 32 Number 14

Sept. 11, 1986

## Research prizes awarded

Prof. Brian James of UBC's Chemistry Department and Prof. David Kirkpatrick of the Department of Computer Science are this year's recipients of the University's top faculty research prizes, the Jacob Biely Research Prize and the Charles A. McDowell Award for Excellence in Research.

Prof. James received the Biely prize for his leading edge research on the utilization of gases in the synthesis of compounds useful in the petro-chemical, pharmaceutical and agricultural industries. Dr. David Kirkpatrick received the Charles A. McDowell award for his theoretical research on the complexity of problem-solving on computers.

Prof. James, a member of UBC's Department of Chemistry since 1964, has made significant contributions to the understanding of both naturally-occurring chemical reactions in the body and reactions used in industrial processes.

"I'm interested in seeing how cheap, abundant gases in our environment, such as carbon dioxide, carbon monoxide, oxygen, hydrogen sulphide, methane and nitrogen, can be converted to compounds that are valuable to industry."

One area of his research involves converting hydrocarbons into oxygen-containing compounds that are particularly useful in the petro-chemical industry. He has also developed a means of converting hydrogen sulphide, an extremely toxic gas emitted from burning coal in industrial plants, into hydrogen, a valuable fuel source.

Some of Prof. James' early basic research in carbon monoxide chemistry has been used in the development of a commercial process for the production of acetic acid from methanol.

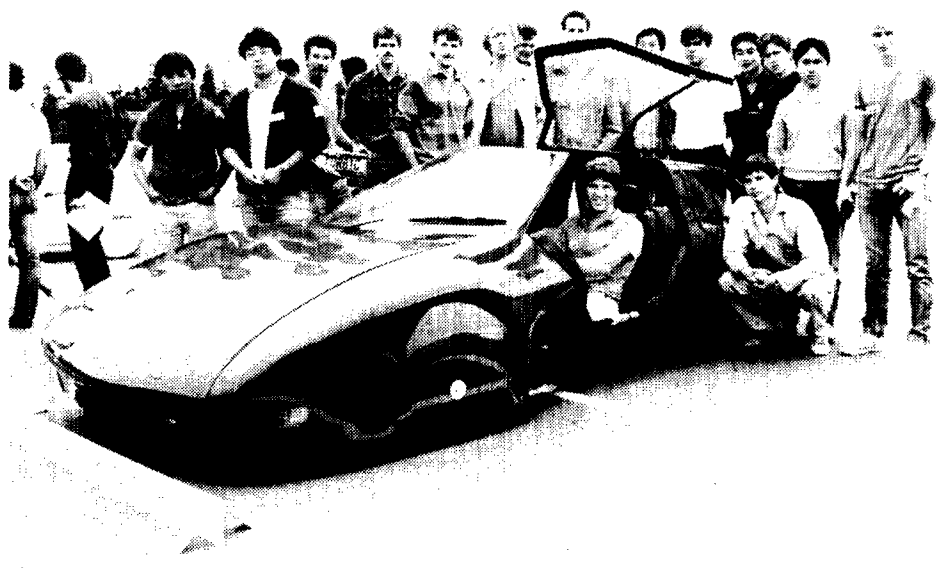
The Biely prize is named for Prof. Jacob Biely, an internationally known poultry scientist, whose association with UBC spanned half a century. The prize was established in 1969 by his brother George Biely, a well-known figure in the B.C. construction industry.

Prof. David Kirkpatrick, winner of the Charles A. McDowell Prize, is a leading researcher in the field of "computational complexity", an area that explores characteristics that affect the efficiency of problem-solving processes in computers.

"Despite their incredible speed, computers have serious limitations in their ability to efficiently solve certain fundamental problems involving the organization, retrieval and processing of information," says Prof. Kirkpatrick. "Our goal is to better understand the limitations as well as the capabilities of computers."

Dr. Kirkpatrick is a graduate of UBC's Faculty of Science. He completed graduate study at the University of Toronto and joined UBC's Department of Computer Science in 1978.

The Charles A. McDowell award is made to a young researcher who has demonstrated excellence in the pure or applied sciences. The award was established by University Professor Charles McDowell, who headed UBC's Chemistry Department from 1955 to 1981.



UBC gears up for the future! The Turbic, a futuristic vehicle built by UBC engineering students, took first prize this summer in the Innovative Vehicle Design Competition, an international contest organized by UBC and held in conjunction with Expo 86. The UBC team's entry, coordinated by Mr. Bruce Hodgins, beat out entries from ten universities in Canada, the U.S., Switzerland and Japan.

## Asian programs funded

A teaching and research position in Korean studies and a new Indonesian Resource and Policy Centre will be set up at UBC as the result of recent announcements of funds totalling nearly \$1 million.

In mid-July, President David Strangway accepted cheques totalling \$500,000 for an endowed teaching and research position in Korean studies in the Department of Asian Studies; and on Aug. 27, the Hon. Monique Landry, federal minister for external relations, announced a three-year, \$435,000 grant to enable UBC to establish a new Indonesia Resource and Policy Centre in the Institute of Asian Research.

President Strangway said the addition of these new dimensions to the Asian studies program, already the most extensive in Canada, "reflect UBC's strategic position on the west coast in terms of research and teaching contacts in Asia, as well as a growing interest on the part of students, governments and the business community in developments in that part of the world."

"The University already has extensive links with the academic and business communities both in Canada and most areas of Asia. Our Asian Studies library, the largest in Canada, is a major resource for students, faculty, governments and the business community."

The University has already launched an international search for a faculty member to fill the Korean studies position. Prof. Daniel Overmyer, the new head of Asian studies, said the objective is to appoint the best qualified person available to the position.

Priority in filling the position will be given to a qualified Canadian scholar or to a landed immigrant currently living here. If no qualified person can be found in Canada, consideration will be given to appointing a foreign scholar, he said.

The \$500,000 endowment for the Korean studies position was raised in Canada by the Canada-Korea Business Council, and from corporations in Korea through Korea-Canada Business Council.

Currently, Korean studies are taught by a visiting scholar, who is supported by a grant from the Korean government through the Korean Research Foundation. This scheme will continue until an appointment is made to the endowed position in 1987.

Bruce Howe, chairman of the Canada-Korea Business Council, said at the July news conference that the endowed position in Asian studies is an example of the growing commercial and cultural ties between the two countries.

The new Indonesia Resource and Policy Centre will serve as a listening post on Canada's west coast on the politics, industry and culture of that Southeast Asian country.

"We will be the only place in Canada monitoring developments in Indonesia with the aim of providing up-to-date information on the political, industrial and cultural developments in that country," said UBC's academic vice-president Prof. Daniel Birch.

He added that the resources of the project would be available to the government, academic and business communities by circulation of monitoring, special topic and other evaluative reports.

The grants for the Indonesia project will be made to UBC through the Canadian International Development Agency (CIDA), the federal agency that sponsors economic programs in developing countries.

A major function of the new Indonesian

## Open House planning starts

Using the theme "Its yours - Come and Explore!", UBC staff, students and faculty have been busy all summer beginning the planning for the university's largest ever Open House, to be held next spring.

For three days, from March 6 to March 8, UBC will be open from 10 a.m. to 5 p.m., providing an exciting, free program of special events, activities, displays, shows and lectures. All twelve faculties, sports and recreational services and specialized campus attractions are energetically preparing for this event, which looks as though it will be UBC's best ever.

Regular updates on Open House will be run in UBC Reports throughout the fall and winter. To date, some of the events planned include:

- \* A special gala evening concert and auction, with guest appearances by celebrity alumni, including Pierre Berton, David Suzuki, J.V. Clyne, Judith Forst, John Grey, Eric Nicol, Harold Wright, Bob Osborne, Bjarni Tryggvason and Earle Birney.

- \* A program of shows and activities from the Faculty of Science, including their now famous magic chemistry show, a salmon barbeque and the Physics Olympics.

- \* A poetry workshop given by Earle Birney

- \* A lecture by Canadian astronaut Bjarni Tryggvason, who will talk about his current work and be available for informal discussion.

- \* Free music lessons, displays of musical instruments, electronic studio and computer music demonstrations. In addition, the Dixieland Jazz Band will tour campus, leading people to the music building.

- \* Water polo, swimming and diving, a swim suit fashion show and synchronized swimming at the indoor pool, kayaking and canoeing at the outdoor pool.

- \* Displays and demonstrations by UBC's activity clubs, recreation UBC and Community Sports.

- \* Major athletic and sporting events - maybe rugby, field hockey, volleyball.

- \* Free entry to the Museum of Anthropology.

- \* Special children's activity area and skate board demonstrations.

- \* Tours of TRIUMF, major campus facilities and the botanical gardens.

- \* Hot Air balloon rides.

Open House committees welcome any suggestions, ideas and offers of help you may have. If you are interested in helping in a particular area of Open House '87, please contact Community Relations at 228-3131.

## UBC Reports gets new look

Beginning with the next issue, UBC Reports is going to look and sound quite a bit different, thanks to a survey conducted last spring by the President's Advisory Committee on UBC Reports.

According to those who answered the survey, the campus community would like to have the opportunity to increase communications between various groups, by writing letters to the editor and by reading thought-provoking guest columns.

Topics of greatest interest to readers are: research stories, news about policy making and administrative decisions (especially in the early stages of discussion), government liaison information and the regular calendar.

Topics of secondary interest are: community outreach, faculty achievements and interviews with distinguished campus visitors.

Topics of least interest are: faculty and staff appointments, labour negotiations, book reviews and profiles of non-academic units.

Most encouraging of all, most of those who answered the survey read UBC Reports on a regular basis, and consider it to be an important source of campus news.

We were also reminded by Dr Michael Ames, Director of the Museum of Anthropology, that "the first criterion for deciding what should be featured is whether the activity is important to the central missions of the University.... Research is certainly important, but so also are teaching, community outreach, and faculty achievements."

During the summer, we have been examining UBC Reports, and are ready to launch a revised publication on September 25 - as long as the mail gets our new materials to us in time.

We are fortunate to have the help of our Advisory Committee, made up of on-and off-

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# Noise level leads to Sedgewick changes

UBC Library administrators are confident that "friendly persuasion" and some recent alterations to the interior of the Sedgewick Library will make it a more attractive place to study.

The noise level in the unique building

## 900 students share \$1.7M

Close to 900 UBC students received on-the-job research and technical experience this summer under the provincial government's Challenge '86 program.

UBC's share of the allocation from the provincial Ministry of Labour program totalled \$1,727,017. Students were paid from the program at the rate of \$3.65 an hour, augmented where possible by additional funding.

For the most part, students worked in close association with professors, developing skills to assist them in entering the work force. This included work on research projects, collecting and analysing data, writing technical reports, carrying out literature searches, collecting plant and insect specimens on field trips, and working in laboratories.

Some of the projects involved unusual research or contact with the public throughout the summer. For example:

- \* A group of theatre students staged some public events associated with Vancouver's centennial celebrations, including a re-creation of the city's first city council meeting.

- \* A student in anthropology and sociology worked on the preparation of a social history of criminal and law enforcement activities in post-war Vancouver.

- \* Four history students researched Vancouver's early labor history, prepared a walking-tour script and gave public tours from the Carnegie Centre at Main and Hastings.

## Researchers awarded \$63M

UBC faculty received research awards totalling \$63.2 million during the 1985-86 academic year, an increase of three per cent over the previous year.

The largest source of grants was national research granting councils: the Natural Sciences and Engineering Research Council, Medical Research Council and the Social Sciences and Humanities Research Council. UBC received 82 per cent of all grants from the councils to the three B.C. universities.

Other sources included provincial and local governments, Canadian companies and foundations, U.S. and other foreign sources, UBC's operating budget, and direct contracts from the federal government.

Each category of source showed an increase over the previous year with the exception of direct federal contracts which dropped from \$6.9 million to \$6.4 million. The decrease is trivial compared with the drop of 35 per cent in total federal contract research spending in the same period.

The health sciences with \$23.4 million attracted the largest amount in awards, followed by the natural sciences with \$20.7 million, applied sciences \$12.1 million, social sciences \$5.4 million and humanities at \$500,000. Slightly more than \$1 million was classified as "other."

UBC received 80.5 per cent of all research awards from all sources to the three provincial universities.

## UBC plays key role in forest

UBC's Faculty of Forestry will play a key role in a new 8,900-hectare research forest being established by the provincial government in B.C.'s Cariboo region.

The faculty will be responsible for the overall management of the forest and will provide a resident forest manager for the faculty.

The site will serve as a permanent area for research on all aspects of forest resource management, a training facility for silviculture skills, a teachers-in-residence site for university, college and school programs, and a public demonstration area.

Dr. Don Munro, director of UBC's 5,157-hectare Research Forest in Maple Ridge, will also become director of the Cariboo facility.

under the Main Mall has reached a point where serious students refuse to use it for studying, according to Sedgewick Library head Joan Sandilands.

Eating, drinking beverages and socializing are all legitimate campus activities, she hastens to add. The changes to the Sedgewick interior are designed to encourage students to do these things elsewhere.

Drinking beverages is banned in all UBC libraries because spills can seriously damage books. Eating is also a no-no because the inevitable crumbs attract insects, particularly silverfish, which have an appetite for paper and book bindings.

The most obvious change that will greet users is a new set of entry and exit doors on the building's main floor. They're designed to differentiate between the library proper and the area which has been used up to now for group study and socializing.

Some of the group-study "carrels" in the social area have been removed, partly because they were not being used for study purposes and partly because of complaints by custodial staff that they are difficult to clean.

The library has also hired five "monitors," who will explain the reasons for the changes, hand out a statement on University and Library policies and suggest to eaters, drinkers and talkers that there are other nearby facilities available for such activities. They'll be on duty from 10 a.m. to 9 p.m.

Ms. Sandilands is confident that the changes will be received positively by Sedgewick users. "In most cases," she said, "students simply have to be reminded of the need for quiet. I feel sure they'll co-operate to make the library a place that's conducive to reading, study and research."

## Ten free Institute talks slated

The Vancouver Institute's fall series of free, public lectures begins Sept. 27 on the UBC campus.

Topics in the series include world hunger, Canada-U.S. relations, communism, toxic rain, enlightenment in the mass media age, engineering the future and cures in cancer.

Vancouver Institute lectures take place at 8:15 p.m. in Lecture Hall 2 of UBC's Woodward Instructional Resources Centre.

Here is a complete list of the Institute's fall speakers and their topics:

**Sept. 27** -- Prof. Eugene Kamenka, Head, History of Ideas Unit, Institute of Advanced Studies, The Australian National University and Prof. Alice Erh-Soon Tay, Head, Department of Jurisprudence, Faculty of Law, University of Sydney, on "Life Under Communism: The Soviet Union and China."

**Oct. 4** -- Lister Sinclair, Broadcaster, Writer and Critic, Ontario, on "Enlightenment in the Mass Media Age."

**Oct. 11** -- Prof. David Braybrooke, Departments of Political Science and Philosophy, Dalhousie University, on "Concepts of Justice." (Cecil and Ida Green Lecturer)

**Oct. 18** -- Prof. Alan Cottrell, Master, Jesus College, Cambridge University, on "Engineering the Future." (Cecil and Ida Green Lecturer)

**Oct. 25** -- Prof. Arthur Schawlow, Department of Physics, Stanford University, on "Lasers and Man." (Dr. Schawlow was a co-inventor of the laser).

**Nov. 1** -- Dr. J. Christopher Bernabo, President, Science and Policy Associates, Inc., Washington, D.C., on "Toxic Rain and Toxic Oceans." (Sigma Xi Centennial Lecture)

**Nov. 8** -- Prof. Cole Harris, Department of Geography, UBC, on "Canada and the American Question."

**Nov. 15** -- Prof. Keith Griffin, President, Magdalen College, Oxford University, on "World Hunger and the World Economy." (Cecil and Ida Green Lecturer)

**Nov. 22** -- Prof. John Borden, Department of Biological Sciences, Simon Fraser University, on "Who is Managing the Forests - Man or the Mountain Pine Beetle?"

**Nov. 29** -- Dr. John Goldman, University of London and Hammersmith Hospital, England, on "Cures in Cancer." (Red Cross Society Lecture)

A brochure listing Vancouver Institute fall lectures is available by calling the UBC Community Relations Office at 228-3131.



New faces on the UBC athletic scene this fall are Terry O'Malley, a key member on three Canadian Olympic hockey teams, who becomes head hockey coach; Joanne Jones, centre, who succeeds Marilyn Pomfret as director of women's athletics; and Donna Baydock, a UBC graduate who has been named head coach of the UBC volleyball team.

### ASIAN STUDIES

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centre will be to assemble material in the national language of that country, Bahasa Indonesian. This would include census material, government reports, newspapers and other basic studies on Indonesia.

The centre will also encourage interaction with research organizations in Indonesia, support Indonesian academics and researchers visiting Canada, and provide services to CIDA, the Asia Pacific Foundation located in Vancouver, the Canadian division of the Pacific Basin Economic Council and the Canadian Chamber of Commerce.

President David Strangway says the most extraordinary thing he encountered during a two-and-a-half week visit to Asia in August was the high level of interest in B.C. in general and UBC in particular.

"I was very impressed with the warm and generous responses of UBC graduates as well as members of the educational and business communities in Japan, Hong Kong and China," the president said.

The president's visits to several Japanese centres, to Hong Kong, and to Guangzhou (formerly Canton) and Beijing (formerly Peking) in China came before and after a four-day meeting of the Association of Commonwealth Universities in Penang, Malaysia.

Dr. Strangway met with alumni in both Tokyo and Hong Kong and has come back convinced that a greater effort must be made to develop closer ties with UBC graduates in Asia.

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campus people, who will meet during the year to review our progress and make constructive suggestions.

We also welcome any news, comments and suggestions you may have for the paper. A campus publication like this one can only be as good as its sources of news, and so we will be relying heavily on the campus community for its input.

We hope you will feel, as we do, that these improvements will be of benefit to all.

The Revised UBC Reports:

#### 1. Format:

The front page will have three columns only, with a clearly defined lead story, and highlights of university news appearing in the left hand column. The other pages will have four columns across. The layout is simpler, with more white space, using Times Roman typeface rather than Helvetica.

We will alternate four and eight page issues. The eight page issues will provide the opportunity for several articles to appear on one theme, and for us to introduce Letters to the Editor.

#### 2. Letters to the Editor:

As space permits, room will be allocated in the 8-page issue each month for a column

In Tokyo, he said, UBC graduates of 1929 and 1931 spoke to him warmly about their experiences at UBC, and the need for the exchange of students and faculty members between Canada and Japan.

He said Japanese educators were most impressed with the Language Institute of the Centre for Continuing Education, which annually provides English-language courses to visiting groups of Japanese students.

In Hong Kong, the president said he was impressed with the number of business interactions and personal ties that UBC alumni living there have with Vancouver.

The four-day meeting of the Association of Commonwealth Universities convinced President Strangway that UBC shares the same problems with its sister universities in other parts of the world.

One of the major themes of the conference, he said, centred on the complex issue of the proper mix of university autonomy and some degree of government intervention. "This question is particularly acute for universities in developing countries," the president said, "because governments in those countries see the universities as devices for economic development."

"If one theme seems to be emerging from this debate, it is that sensible cooperation with government is better than confrontation."

He said universities everywhere are attempting to publicize their significance and importance to the local as well as the national communities.

called Letters. Letter must be a maximum of 150 words, and UBC Reports reserves the right to edit longer letters.

#### 3. Guest Column:

Every other issue, there will be a guest column, focusing on university affairs, to be written by a member of the UBC community and solicited by Community Relations. Suggestions for featured guests are welcome. Columnists will be chosen for their ability to stimulate a lively dialogue within the university community. The first column will be a Q and A interview with Dr. David Suzuki.

#### 4. Outreach:

In alternate issues, we will focus on UBC's community involvement - our Outreach into the community. The first of these will be an article on UBC's Community Health Program, run by the Department of Family Medicine in the Mather Building.

#### 5. Celebrate the Team:

As and when we can, we will put in examples of excellence at UBC - short notes on areas/teams/people who deserve special recognition.

#### 6. On-going Items:

In addition to the above, we will continue to carry regular news items, our people column, the calendar and grant deadlines.



# Expedition finds vents, ore

Artificial intelligence and robotics developments may be the keys needed to mine millions of tons of metal-bearing sulphides from the floor of the Pacific Ocean, says a University of B.C. geologist.

Prof. Dick Chase of UBC's Department of Geological Sciences is just back from a two-week scientific expedition to B.C.'s West Coast, 200 kilometres off Vancouver Island. 2,500 metres below the surface of the ocean, the expedition found deposits of sulphide compounds created when heated sea water rushes out of volcanic vents on the ocean floor.

Prof. Chase says the 1986 expedition, a joint effort by UBC and the University of Toronto, explored a large deposit of minerals found in 1984, and located a new hot vent area 30 kilometres to the north. The scientists carried out their work aboard the Canadian Forces auxiliary vessel Endeavour.

He estimates there are some three to 5 million tons of sulphides of zinc, copper, silver and gold in the area known as Southern Explorer Ridge. The size of the new vent field, on Northern Explorer Ridge, is not yet known.

"But," he hastens to add, "don't hold your breath in anticipation that these minerals will be immediately mined. At present it's cheaper to mine the same ores on dry land before we begin mining the seas."

The UBC-Toronto discoveries, he says, may help to spur Canadian development of specialized underwater vehicles that would roam the ocean floor, armed with a chemical probe that could identify ore-grade deposits. Robotically armed vehicles would collect the minerals, bringing them to the surface.

Technology of this kind may be closer than we suspect, Dr. Chase says. At least two federal departments -- Energy, Mines and Resources, Fisheries and Oceans -- are fostering research that could ultimately lead to the development of such vehicles.

In addition to the sulphides, which will be analysed at the University of Toronto, the expedition also collected volcanic rock. Prof. Chase will analyse the rock samples, many of which are geologically comparatively new.

The scientists used an instrument called a CTD/Transmissometer to locate the vents around which the sulphides grow. The CTD/Transmissometer detects particles of iron oxide in the plume of sea water that has mixed with volcanic vent fluid, and can measure the slight increase in water temperature of the plume.

In 1984, a similar expedition to Southern Explorer Ridge used Pisces IV, a diving submersible, to get a closeup view of the

ocean-floor vents. The scientists saw bizarre forms of life found nowhere else on earth.

These included meter-long worms that live in tubes and exist by breathing the hydrogen sulphide-laden vent water and ingesting multi-colored bacterial colonies. Large numbers of long-legged crabs were found feeding on the worms.

The ocean floor vents form where crustal plates on the ocean floor pull away from each other. Explorer Ridge is formed at the junction between the Pacific Plate, which is moving in the direction of Japan, and the Explorer Plate, which is moving under Northern Vancouver Island.

These massive plates rest on the almost molten earth's mantle. Slow currents in the mantle help to move the plates.

Prof. Chase, and UBC Prof. Steven Scott, University of Toronto, were chief scientists involved in the 1984, 1985 and 1986 expeditions. UBC students involved in the most recent expedition were geology students Gregory T. Shea and Alexander Denton and engineering student John Criswick.

Both the expeditions were supported by the Natural Sciences and Engineering Research Council of Canada. Profs. Scott and Chase are seeking sources of funding from industry and government to enable them to continue their research.



Looking over volcanic rocks dredged up this summer from the floor of the Pacific Ocean 200 kilometres off Vancouver Island are Prof. Dick Chase, left, of UBC's Department of Geological Sciences and colleague, Prof. Steven Scott of the University of Toronto. Rock samples will be analysed at UBC by Prof. Chase.

## Comment asked on proposal

The University Health and Safety Committee has recently prepared a policy proposal for non-smoking at UBC, the details of which are published below. The committee, made up of eighteen members representing all areas of the campus community, welcome comments from students, staff and faculty. These comments will then be used in preparing a recommendation for consideration by the President in preparing recommendations to the Board of Governors.

Please address any comments you may have to the Wayne Greene, Director of Occupational Health and Safety, Old Administration Building. All comments must be received by September 26th.

### Clean Indoor Air

The University recognizes that no individual has the right to pollute the air of others with any substances known to be hazardous to health. In general, employers are required by the Industrial Health and Safety Regulations to ensure that stringent contamination and air quality conditions are met. Exposure to smoking in the workplace or public areas of the campus is a health hazard as well as an annoyance, and all persons on the University's campus, whether students, staff, or visitors have the right to breathe clean indoor air in places of public assembly, passage, workplace or classroom.

### 1. Public Areas

Smoking is not permitted in public areas, such as the following:

- \* conference rooms
- \* lecture rooms
- \* laboratories
- \* common study rooms
- \* elevators
- \* hallways or foyers
- \* washrooms
- \* indoor recreation areas or change rooms
- \* public reception areas
- \* theatres

A maximum of 50% of the seating in Food Service facilities may be designated as smoking areas, but these areas must be away from access to the servery, and should have ventilation to prevent smoke drifting to pollute the air of non-smokers.

### 2. Places of Employment

In addition to the places noted above, any employee may object about smoke in his or her workplace. They shall address their objections to the Department Head or Director, to the supervisor, or to the safety committee chairman of the area, who shall be responsible for attempting to reach an accommodation, if possible, between the preferences of smoking employees and those employees who do not

wish to have their air polluted by smoke.

Where an agreement cannot be reached which is satisfactory to all of the affected employees, the preferences of non-smoking employees will prevail. The Dean, Director or Department Head will then prohibit smoking in the workplace so that all employees will work in a smoke-free environment. This shall include private offices where the building's air circulation system draws the smoke into the air space of others, and would also include staff lunchrooms.

### 3. Signs

The majority of the adult population of the Vancouver area are non-smokers, thus non-smoking is the norm, and smoking is the exception. Signs, therefore, shall be posted to indicate areas where smoking is permitted. It is emphasized that the absence of non-smoking signs does not infer that smoking is allowed.

All buildings will have a sign at the entrance to inform visitors that the University's policies prohibit smoking except in designated areas.

### 4. Communication

The University's "Clean Air Policy" will be communicated to all students in the University's academic calendar. Students who continue to smoke in restricted areas shall be dealt with first by the Dean of their faculty, and, if necessary, through the President's Advisory Committee on Student Discipline.

The "Clean Air Policy" will be communicated to all University employees. Any member of the University who refuses to cooperate with the policy as stated above shall be dealt with through the normal disciplinary procedures.

### 5. Smoking Areas

Where possible, areas where smoking is permitted will be specifically designated in buildings which have adequate ventilation to separate the smoking room's air to prevent the contamination of the building air supply.

## First Asian Centre visit

The former commissioner-general of the Sanyo Pavilion at Expo 70, a man who played a key role in the building of UBC's Asian Centre, visited the campus this summer for his first-ever look at the handsome centre.

Kazuhiko Nishi was the man who decided to donate the steel girders that support the unique, pyramidal roof of the building.

The idea of relocating Sanyo's Expo 70 pavilion at UBC was suggested to Mr. Nishi by Prof. Shotaro Iida of the Department of Asian Studies.

However, Mr. Nishi, now retired from a public relations post with Sanyo, had never seen the reconstructed building, which was redesigned for University use by Vancouver architect Donald Matsuba and landscaped by Roy Sumi.

President David Strangway invited Mr. Nishi to come to Vancouver this summer to view the

## GRANT DEADLINES

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- \* Agriculture Canada
  - Extramural Research Grant [31]
- \* Alberta Forest Service
  - Forest Development Research Fund Grant [15]
- \* Alberta Heritage Fdn. for Medical Research
  - Medical Research Fellowships [1]
- \* American Chemical Society: PRF
  - Research Type AC [1]
- \* American Council of Learned Societies
  - China Conference Travel Grants [1]
- \* American Lung Association
  - Training Fellowships [1]
  - Trudeau Scholar Awards [1]
- \* Arthritis Society
  - Associateships & Assistantships [15]
  - Fellowships [15]
  - Research [15]
- \* AUCC: International Relations
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- \* B.C. Cancer Foundation
  - Travel Grant for Post-doctoral Fellows [15]
- \* B.C. Heritage Trust
  - Historical Archaeological Program [1]
- \* Cambridge Univ. (Peterhouse)
  - Research Fellowships [25]
- \* Canadian Commonwealth Schol/Fell. Committee
  - Research Fellowships [31]
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- \* Canadian Cystic Fibrosis Fdn.
  - Fellowships for Training and Research [1]
  - Research [1]
  - Scholarship [1]
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- \* Canadian Geriatrics Research Society
  - Research [1]
- \* Canadian International Development Agency (CIDA)
  - CIDA/ICDS Institutional Development Linkages [10]
- \* General Motors Cancer Res. Fdn.
  - Research Prize [2]
- \* Guggenheim, John Simon, Memorial Foundation
  - J.S. Guggenheim Fellowships [1]
- \* Hannah Institute
  - Publications Assistance [1]

- \* Health, Education and Welfare, U.S. Dept. of
  - Small Grants Program [1]
- \* IMASCO-CDC Research Foundation
  - Research [1]
- \* Institute of Urban Studies, Winnipeg
  - CMHC Senior Fellowship [15]
- \* International Union Against Cancer
  - Eleanor Roosevelt Cancer Fellowships [1]
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- \* Japan Society for the Promotion of Science
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- \* Japan World Exposn. Commemor. Fund
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- \* Juvenile Diabetes Fdn. (US)
  - Career Development Award [1]
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- \* Kidney Foundation of Canada
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- \* Malignant Hyperthermia Assoc.
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- \* MRC: Grants Programs
  - MRC Group [1]
- \* MRC: Special Programs
  - France/Canada MRC Exchange [1]
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- \* Multiple Sclerosis Society of Canada
  - Career Development Grants [1]
  - Postdoctoral Fellowships [1]
  - Research [1]
  - Research Studentships [1]
- \* National Defence Canada
  - Military and Strategic Studies Program [10]
- \* National Inst. of Education (US)
  - NIE Research Grants [6]
- \* National Kidney Foundation
  - Research Fellowships [1]
- \* National Research Council of Canada
  - The Steacie Prize [4]
- \* NSERC: Fellowships Division
  - University Research Fellowship [1]
- \* NSERC: Intl. Relations Division
  - CIDA/NSERC Research Associates: LDC's [15]
  - Exch: Braz., Czech., Japan, Bulg., UK, Suisse, Germany, Austria [15]
  - International Collaborative Research [15]
  - International Scientific Exchange Awards [15]
- \* NSERC: Major Installation
  - Major Installation [1]
- \* NSERC: Vector Computer Facility
  - Dorval Vector Access [1]
- \* Osgood Society
  - Fellowship in Canadian Legal History [15]
- \* Royal College of Physicians and Surgeons of Canada
  - Detweiler Clinical Traineeship [1]
- \* Secretary of State c/o S.S.H.R.C.
  - Bora Laskin Fellowship in Human Rights [1]
- \* Solicitor General of Canada
  - Criminological Research [1]
- \* SSHRC: Fellowships Division
  - Canada Research Fellowships [1]
  - Jules & Gabrielle Leger Fellowship [1]
  - Postdoctoral Fellowship [1]
  - Sp. PDF for Research on Urban Poverty in Canada [8]
- \* SSHRC: Intl. Relations Division
  - Aid to International Secretariats [1]
  - Bilateral Exchange: China [1]
  - Bilateral Schol. Exchange: Japan & Hungary [1]
  - Bilateral Scholarly Exchange: France [1]
  - International Collaborative Research [1]
- \* SSHRC: Research Commun. Div.
  - Aid to Learned Journals [14]
  - Aid to Occasional Conferences [30]
- \* SSHRC: Research Grants Division
  - Research [15]
  - Research Time Stipend [15]
  - Standard Research Grants [15]
- \* St. John's College
  - Commonwealth Fellowship [1]

Please turn to Page 4  
See DEADLINES

# UBC CALENDAR

## Calendar Deadlines.

For events in the period Sept. 28 to Oct. 11, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, Sept. 18 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

## FRIDAY, SEPT. 12 Finance Workshop.

The Interaction Between Equity Financing Decisions and Share Price Behaviour. Wayne Mikkelsen and Megan Partch, University of Oregon. Penthouse, Henry Angus Building. 3:30 p.m.

## Vancouver Baroque Ensemble.

A mixed bag of musical surprises from the 17th to the 20th centuries played by a trio led by flautist Paul Douglas, Department of Music, and "surprise guests." Free. Recital Hall, Music Building. 8 p.m.

## SATURDAY, SEPT. 13 Football.

UBC Thunderbirds host the Calgary Dinosaurs, 1985 Canadian University Champions. Thunderbird Stadium. 7:30 p.m.

## Graduate Student Society Dance.

The UBC Graduate Student Society is sponsoring a welcome back dance featuring the Crimpoles. Graduate student admission is \$4. Regular admission is \$5. Graduate Student Centre. 8 p.m. - 1 a.m. Tickets available at the Graduate Student Office or Lounge.

## TUESDAY, SEPT. 16 Modern Languages Lecture.

French Dialectology and Regional Atlases. Prof. Patrice Brasseur, University of Nantes, France. Room 1004, Scarfe Building. 12:30 p.m.

## Chemistry Seminar.

Organometallic Chemistry from a Nitrosyl's Point of View. Prof. Peter Legzdins, Chemistry, UBC. Room 250, Chemistry Building. 1 p.m.

## Oceanography Seminar.

Stable Carbon Isotope Variations in Marine Macrophytes. Dr. L. W. Cooper, Institute of Marine Science, University of Alaska. Room 1465, Biological Sciences Building. 3:30 p.m.

## WEDNESDAY, SEPT. 17 Noon-Hour Concert.

Hans-Karl Piltz, viola d'amore, Ailsa Zaenker, piano and harpsichord. Recital Hall, Music Building. 12:30 p.m.

## Forestry Seminar.

The State of the University and the Role of the Faculty of Forestry Within It. Dr. David Strangway, President, UBC. Room 168, MacMillan Building. 12:30 p.m.

## Classical Music Nights.

The Graduate Student Society will be sponsoring classical music nights every Wednesday evening. Graduate Centre Lounge. 8 p.m. - 11:30 p.m.

## THURSDAY, SEPT. 18 Women Students Workshop.

How to Pass the ECT. Nancy Horsman, Women Students Office. Free workshop. For further information, call 228-2415. Room B212, Buchanan Building. 12:30 p.m.

## Distinguished Artists of India.

First in a series of four concerts by visiting Indian artists. The series begins with a lecture-demonstration entitled "The Art of the South Indian Veena," a plucked instrument related to the sitar, by Muthulakshmi Ranganathan, winner of numerous prizes including the President of India Award. Auditorium, Asian Centre. 12:30 p.m.

## Faculty Association Meeting.

General meeting. Room 100, Mathematics Building. 1:00 p.m. - 2:30 p.m.

## FRIDAY, SEPT. 19 Medical Genetics Seminar.

Psychological Aspects of the CVS Trial. Dr. John Spencer, SFU. Parentcraft Room, Main Floor, Grace Hospital. 1 p.m.

## General Systems Forum.

First in the 1986/87 series of biweekly seminars on general systems theory and the viewpoint which it affords in various branches of knowledge. Salon F, Faculty Club. 4 p.m.

## MONDAY, SEPT. 22 Applied Mathematics Seminar.

Exact Representation for Acoustical Waves When the Sound Speed Varies in Space and Time. Dr. Brian R. Seymour, Institute of Applied Mathematics, UBC. Room 229, Mathematics Building. 3:45 p.m.

## Ballroom Dance Lessons.

UBC Graduate Student Society will be sponsoring ballroom dance lessons for the next 8 Monday evenings. Beginners at 7:30 p.m. and Intermediates at 8:30 p.m. Graduate student admission is \$20. Regular admission is \$25. Graduate Student Centre Ballroom. For more information, call 228-3203. Everyone welcome.

## TUESDAY, SEPT. 23 Women Students Office.

"Coping with Campus" Follow-up - Mature Students Support Group. Room 223, Brock Hall. 12:30 p.m.

## Theatre Lecture.

Delusions, Illusions and Reality. Sharon Pollack, Canadian playwright. Sponsored by Committee on Lectures. Frederic Wood Theatre. 12:30 p.m.

## Chemistry Seminar.

The Element Displacement Principle: A New guide in p-Block Element Chemistry. Prof. Mult A. Haas, Lehrstuhl für Anorganische Chemie 11, Ruhr-Universität Bochum, West Germany. Room 250, Chemistry Building. 1 p.m.

## Metallurgical Process Engineering Lecture.

Economic Metallurgy. Dr. Gordon H. Geiger, North Star Steel Company. Room 317, Frank Forward Building. 3:30 p.m.

## DEADLINES

Continued from Page 3

- \* Supply and Services Canada
  - Project Funding: Public Awareness Program for Science & Technology [15]
- \* Tyler, John and Alice, Ecology Energy Fund
  - Tyler Prize [15]
- \* University of British Columbia
  - Research Development Grant [1]
  - UBC-NSERC Equipment Grant [1]
  - UBC-SSHRC Travel Grant [10]
- \* University of Cambridge
  - Visiting Fellowships [1]
- \* University of Tasmania
  - University Research Award [31]
- \* Woodward's Foundation
  - Foundation Grants [1]
- \* World Wildlife Fund (Canada)
  - General Research [1]

## WEDNESDAY, SEPT. 24 Pharmacology and Therapeutics Seminar.

The Voltage-Calcium Hypothesis for Neurotransmitter Release. Dr. I. Parnas, Neurobiology, Hebrew University of Jerusalem. Room 317, Basic Medical Sciences Building, Block C. 12 noon.

## Reading.

Reading by Canadian dramatist Sharon Pollack, author of Blood Relations, Walsh and the recent Doc. Sponsored by the English and Theatre Departments. Room A104, Buchanan Building. 12:30 p.m.

## Noon-Hour Concert.

Elmer Gill, jazz piano and vibraphone, Buddy Caplett, bass. Recital Hall, Music Building. 12:30 p.m.

## Germanic Studies Lecture.

Austro-Hungary: On Austria's Conception of Herself on the Eve of the Destruction of the Monarchy (illustrated). Prof. Wendelin Schmidt-Dengler, University of Vienna. Buchanan Penthouse. 12:30 p.m.

## Obstetrics and Gynaecology Seminar.

Ovarian Hyperstimulation Induced by PMSG in the Rat: Effects on the Oocyte. Dr. Young Won Yun and Prof. Young S. Moon, Obstetrics and Gynaecology. Room 2J41, Grace Hospital. 3:00 p.m.

## Germanic Studies Lecture.

Die österreichische Literatur der Gegenwart: Eine Einführung. Prof. Wendelin Schmidt-Dengler, University of Vienna. Buchanan Penthouse. 3:30 p.m.

## THURSDAY, SEPT. 25 11th Annual Dr. John F. McCreary Lecture.

Teenagers in Distress. Carol Nadelson, M.D., Psychiatry, Tufts University, Boston. Lecture Hall 2, Woodward Instructional Resources Centre. 12:30 p.m.

## Habitat Lecture.

Formation of World Cities: Urbanization in a World System. Prof. Arie Shachar, Canadian Studies Programme, Hebrew University of Jerusalem. Room 107, Lasserre Building. 1:00 p.m.

## Theatresports.

The Graduate Student Society will be sponsoring Theatresports, featuring the Vancouver Theatresports League. Graduate student admission is \$4. Regular admission is \$5. Bar service available. Graduate Student Centre Ballroom. 8 p.m. - 10 p.m.

## FRIDAY, SEPT. 26 Reading.

Duo reading, sponsored by the English Department and the Canada Council, by Canadian poets Douglas Barbour and Stephen Scobie, joint authors of The Pirates of Pen's Chance. Buchanan Penthouse. 12:30 p.m.

## Medical Genetics Seminar.

Diabetes. Dr. W. J. Tze, Endocrinology, Children's Hospital. Parentcraft Room, Main Floor, Grace Hospital. 1 p.m.

## Continuing Education Seminar.

Two-day seminar entitled The Web of Being There: Stories and Poems on Place, begins with a Friday lecture at 8 p.m. and continues on Saturday from 10 a.m. to 5 p.m. Given by Gary Snyder and Gioia Timpanelli. \$70 fee includes lunch, refreshments and Friday evening lecture. Friday evening lecture only cost is \$8 (students \$6). More information: 222-5261. Graduate Student Centre.

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## NOTICES Curling.

B & G Mixed Curling Club needs curlers - beginners welcome. Thunderbird Winter Sports Centre beginning Oct. 8 and continuing every Wednesday until March. Cost \$90. For more information, call R. McIndoe, 228-3106.

## UBC Conferences.

Two international conferences -- one dealing with the oceans, the other with the art world, will be held under UBC auspices in September. A three-day conference on "OCEAN EXPLORATION AND TECHNOLOGY," associated with EXPO 86, opens Friday (Sept. 12) with a public session in the ballroom of the Hotel Vancouver. American astronaut Dr. Kathryn Sullivan and Titanic expedition co-director Mr. Jean Jarry are two of the opening session speakers. Tickets at \$15 each are available from VTC-CBO outlets. Details on registration for the three-day conference are available by calling 688-9122. A three-day conference entitled "HOT PAINT FOR COLD WAR: the Cultural and Intellectual Relations between Paris, New York and Montreal During the Years 1945 to 1964," opens on Sept. 25 and continues until Sept. 27. Details are available from Serge Guilbaut, UBC Department of Fine Arts, 228-4340 or 2757.

## Badminton Club.

Faculty and Staff Badminton Club meets Tuesdays 8:30 - 11:30 p.m. and Fridays 7:30 - 10:30 p.m. in Gym B of the Robert Osborne Sports Centre. Fees \$15.00 per year. New members welcome. For more information, call 228-4025.

## Frederic Wood Theatre.

The Frederic Wood Theatre is presenting Blood Relations by Sharon Pollack, directed by Charles Siegel. Wednesday, Sept. 17 through Saturday, Sept. 27 (except Sunday). Student and senior admission is \$5. Regular admission is \$7. There will be a special price of two-for-one regular admission on the Preview Nights, Sept. 17 & 18. Curtain time is 8 p.m. For further information and reservations, phone 228-2678 or drop by Room 207 of the Frederic Wood Theatre Building.

## AMS Student Bargain Days.

The AMS presents Student Bargain Days, a vendor event for student lifestyle and budget. Free admission. SUB Main Concourse. Monday 10 a.m. - 5 p.m. Tuesday through Thursday 9 a.m. - 5 p.m. Friday 9 a.m. - 3 p.m.

## SOFA and CPR Courses.

St. John Ambulance will offer its Safety-Oriented First Aid Course (SOFA) and Cardiopulmonary Resuscitation Course (CPR) to UBC students on Saturdays in October and November. These courses are strongly endorsed by the Health Sciences' faculties and schools and have been given excellent ratings by students who have taken the courses in previous years. The SOFA course requires 8 hours to complete. Upon completion an Emergency First Aid Certificate will be issued, valid for three years. The CPR course requires 4 1/2 hours to complete. Each course costs \$20, payable at registration on Sept. 23 and 25 from 10:30 a.m. to 2:30 p.m. in the centre mall of the Woodward Instructional Resources Centre.

## Pipers and Drummers.

Any pipers and drummers among faculty, students and staff interested in practicing and playing on campus are asked to contact Dr. Edward Mornin, Germanic Studies, 228-5140.

## Language Programs.

Non-credit conversational programs in French, Spanish, Japanese and Chinese begin the week of September 22. A Saturday morning class in Teaching Languages to Adults is also available. For more information, contact Language Programs and Services, Centre for Continuing Education, 222-5227.

## Library Tours.

Guided tours of Main and Sedgewick Libraries will be given weekdays September 8 to 19. Groups meet in the Main Library entrance. Tours last about 45 minutes. Everyone is welcome. 10:30 a.m. and 12:30 p.m.

## Plant Sale.

The Friends of the UBC Botanical Garden are holding their annual student plant sale Sept. 9, 10 & 11 from 12 noon to 5 p.m. The sale will be held in a NEW LOCATION this year -- The Main Garden Centre, 6250 Stadium Road (west of the Thunderbird Stadium). Parking available.

## Radiation Protection Courses.

The first session of the Radiation Protection Course is scheduled for Sept. 22-25. The course is aimed at UBC faculty, technicians and students who will be using radioactive materials this year. All new users must attend the course before ordering or handling any radioisotope. Course sessions are scheduled for the following periods: Sept. 22-25; Oct. 20-23; Nov. 17-20; Dec. 15-18; Jan. 19-22; Feb. 23-26; March 23-26. All sessions will be held from 9 a.m. to noon, except those in December and January, which will meet from 1 to 4 p.m. To register, send a memo to Armando E. Zea, Radiation Protection Office, G-325, Acute Care Unit, giving name, department, supervisor's name (if applicable), office or lab phone number and first or second choice of course dates. Telephone applications are not allowed.