

Four free swim days follow today's pool opening

Everybody's invited to the official opening ceremony for UBC's new Aquatic Centre, which is being touted as the finest facility of its kind in North America.

The event takes place today (Wednesday) at 2:30 p.m. inside the new \$5.4 million covered pool adjacent to the Student Union Building. The John M. Buchanan Fitness and Research Centre, which is housed in the same building as the pool, will also be officially opened at the ceremony.

And...if you haven't tried out the new pool yet, here's your chance.

Faculty and staff (and the public) can swim free for the next four days —

Thursday, Friday, Saturday and Sunday.

Free times for faculty and staff will be 7:30 a.m. to 9:00 a.m., 12:30 to 2:30 p.m. and 4:30 to 5:30 p.m. Thursday and Friday — or during any of the public hours on the weekend. UBC students, who have three free swim periods each day anyway, can also take advantage of the free public swimming on the weekend.

The Aquatic Centre, which includes the nearby Empire Pool, is more than just a swimming pool. In addition to meeting the recreational and competitive needs of the on- and

off-campus communities, the centre is equipped to function as a major research centre for faculty and graduate students. (For more details on pool facilities and activities, turn to Page 2.)

UBC's president, Dr. Douglas Kenny, will preside at today's ceremony, which will include brief speeches by Paul Sandhu, president of the Alma Mater Society; Prof. Robert Osborne, who retired earlier this year after 33 years as director of UBC's School of Physical Education and Recreation; Hon. Sam Bawlf, provincial minister of recreation and conservation; and Hon. Iona Campagnola,

federal minister of state for fitness and amateur sport.

Ms. Campagnola and Mr. Bawlf will jointly unveil a plaque dedicating the Aquatic Centre. A second plaque to mark the opening of the Buchanan centre will be unveiled by Donald Brewster, who chaired the Aquatic Centre fund-raising committee, and who was a close personal friend of the late Mr. Buchanan, a UBC graduate and former chancellor.

Other platform guest at the ceremony will be Mrs. Buchanan, representatives of UBC faculty and staff fund-raising committees and the chairmen of committees responsible for the planning of the pool.

UBC reports

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New name, new director, new mandate

UBC's Dean of Women's Office has a new name — Women Students' Office — a new director — Lorette Woolsey — and a new mandate.

But beneath all the changes, says Dr. Woolsey, the basic purpose of the office remains the same: "Above all, our primary purpose is to maintain the tradition of the Dean of Women's Office as a place women students can go for help to overcome the largeness of this institution; a place they can come to with an enormous gamut of problems.

"My vision of the office is one of personal help and service — and part of that service involves identifying problem areas affecting more than just those students who come to us for help — and working in a constructive way to make the University a better place for women, and men."

Dr. Woolsey, a psychologist with experience as a counsellor and teacher in British Columbia, Alberta and Nova Scotia, was appointed director of the Women Students' Office this month after serving as acting director since June. She succeeds the former dean of women, Margaret Fulton, who left UBC to become president of Mount St. Vincent University in Halifax.

Dr. Woolsey graduated from the University of Alberta in 1960 with an honors degree in psychology. She obtained her master's degree in clinical psychology from Alberta in 1964 and received her doctorate there in 1973.

Although Dr. Woolsey sees her office as a traditional institution, created originally to protect women and represent their interests, she says it has been transforming over the years to address modern concerns.

She outlined some of these concerns: "Why is it that the bright girl who has always got top marks in math is not going into engineering? Or the girl student who wants to heal, who is very interested in health care, never considers becoming a doctor? And for men — what happens when a would-be doctor can't get into medical school? Why aren't more men considering rehab medicine and nursing? No one is keeping them out, so the education of women — and of men — is very closely linked to the socialized role of the sexes.

"It is difficult for women students to make the most of their potential. Many fear losing their femininity: what do you do about role models, real feminine women in positions of authority?

"Recent studies suggest that more than 95 per cent of undergraduates plan to marry. What does that mean with regard to the use that women —



Gathered around Dr. Lorette Woolsey, seated, director of the Women Students' Office, are members of the professional and secretarial staff. Standing, left to right are: Mary Jo Claassen, Claire Copp, Nancy Horsman, Maryke Gilmore, Barbara Jefferson, Diane Waterman and April Hamilton. Picture by Jim Banham.

and men — make of their educations? So much money and effort goes into educating women graduates — who's going to do the dishes and raise the children?"

Although Dr. Woolsey has defined some of the issues, she doesn't pretend to have all the answers. "One thing we can do is to represent to the University these and other concerns of women, to work and co-operate with them on issues like the problem of the drop-off in women's enrolment at the Ph.D. level. Why are they dropping off? What special encouragement do they need?

"We have a mandate to put questions like this before the University, to make sure others are aware of their importance to women students. It's all right to encourage women to go into non-traditional fields, but it's a difficult position to be in. It's important to tackle these problems in a structural way in the institution. We can make suggestions to attract women students and develop their maximum potential.

"I never forget this is an academic institution. All the things we do are designed to help students make the most of their educations, and people hampered by problems in other areas of their lives can't."

Dr. Woolsey and her staff are in the process of deciding how to tackle some of the problems facing women: They see a big part of their role as one of liaison, of bringing to the attention of

faculty and administration some of the issues concerning women students, and working with them to resolve them.

In addition, there are plans for workshops, group counselling, and rap sessions in the residences. Some of the subjects they intend to address include career orientation; the choices open to women and their implications, especially those affecting home and family; and sex stereotypes, especially as they affect education and career.

The Women Students' Office currently runs two career-oriented programs: internship and co-operative education. The internship program offers students the opportunity to work off-campus on a part-time basis during the winter session in a field related to their area of academic interest; and the co-op program integrates formal academic study during the winter with summer work in business, government or industry, particularly in the fields of forestry and engineering.

"We want to use all the resources available to us to co-ordinate programs for women," says Dr. Woolsey.

"We have to be a strong voice for women, and we have to address the issues women raise in a constructive, co-operative way. We have a strong mandate, and our role is very clear. We can act as a catalyst to help the University respond in the most positive and constructive way to the changing role of women."

139 set for leadership conference

Some 139 UBC students, faculty, administrative staff and alumni will be participating in a Student Leadership Conference this weekend, despite a boycott by representatives of the central student government who say they are opposed in principle to such a meeting.

The purpose of the three-day conference is to give students a chance to meet one another and faculty, alumni and administrators, and to discuss in a relaxed atmosphere the problems they face in trying to provide leadership for other students on campus.

"The talks are informal and off the record, and give both students and administrators the opportunity to hash things out and get new perspectives," said Dave Rowat, a graduate student in chemical engineering who chaired the organizing committee.

The Student Representative Assembly and the Alma Mater Society, however, said that such a conference has no record of real success or positive results. "It's more effective for a student leader to meet an administrator and discuss all they want right here on campus," said SRA president Paul Sandhu. "No real success or positive kinds of results came out of last year's conference."

Mr. Rowat disagreed. He attended last year's meeting and said that the consensus was that it had been very useful. "We are naturally disappointed that no representatives of the central student governing body will be attending this year. But we do have good people coming, and good topics, and I anticipate that it will be an enormous success for those attending. In fact, its success will be limited only by the fact that we don't have the AMS there."

At press time, 102 students and 37 faculty, alumni and administrative staff had signed up for the conference. Rowat said the students represent athletic, political, fraternal and other undergraduate clubs. Non-students attending include UBC President Douglas Kenny and vice-presidents C.J. Connaghan and Erich Vogt.

"The agenda will be totally student oriented," Mr. Rowat said. "There will be sessions describing the organizational structure of the University and the AMS; workshops on fund raising and how to structure an organization effectively; a session on the AMS constitution and another on student services. In addition, there will be discussion of 22 topics suggested by the delegates themselves, including the role of students in choosing campus administrators, campus housing policies, student loans, and how to deal with incompetent teachers."

The conference will be held off campus, at Camp Elphinstone on the Sechelt Peninsula from Friday, Sept. 9, through Sunday, Oct. 1.

Senate

A move to have 26 financial awards for students held up for review by a new Student Awards Review Committee was rejected by UBC's Senate at its first meeting of the new academic year on Sept. 13.

The Senate agenda committee recommended that the September awards list be reviewed by the Student Awards Review Committee, which was established last February to make recommendations to Senate on UBC's policy governing awards to students and to consider the desirability of a standing committee of Senate or some other body to keep under review UBC policy governing awards.

Prof. Charles McDowell, head of UBC's chemistry department and a member of the agenda committee, said the September list of awards included two scholarships restricted to women students only, and an award given by a trade union that included provisos that the union had to approve the recipient and that the length of service of the student's parents as members of the trade union had to be taken into account.

He said questions had been raised about some of the awards in the agenda committee, which felt that the new awards review committee should look at the conditions under which the University accepts awards.

Dr. George Beagrie, speaking for the first time at Senate as dean of the Faculty of Dentistry, said he saw nothing wrong with restrictions being placed on awards, so long as they supported "good scholarship and good science."

Dean Robert Will of the Faculty of Arts said there was no proper competition for some awards because restric-

tions resulted in few students being eligible to receive them.

Senate voted to consider the September awards list and then approved it on motions by Dean Peter Lusztig of the Faculty of Commerce and Business Administration.

Later in the meeting Senate approved a report from its nominating committee naming the eight persons, including two students, who will sit on the new Student Awards Review Committee.

Senate approved two new programs and voted to drop a diploma program in nursing during debate on the report of its curriculum committee.

The new programs are:

- A four-year program in engineering in the Faculty of Applied Science; and

- A combined Doctor of Medicine (M.D.) and Doctor of Philosophy (Ph.D.) program.

Dr. John Wisenthal, chairman of Senate's curriculum committee, said the four-year engineering program is designed for exceptional, highly motivated, very well-qualified students who have outstanding high school records.

The ten to 15 students who would be accepted into the program will be able to complete it in four years, instead of five. UBC's five-year program in engineering requires students to take one year in the Faculty of Science, followed by four years in Applied Science.

Several faculty members and student senators had reservations about the program because of its heavy academic load.

Prof. S.O. Russell, of the Department of Civil Engineering, told Senate all reservations had been carefully considered by the applied science faculty's curriculum committee. He said UBC is one of the few universities in Canada that has a five-year program leading to a degree in engineering. Most universities offer a four-year program, he said.

He assured Senate that the faculty would report back in two years on student progress in the new program.

The new combined M.D. and Ph.D. program is intended for exceptional students contemplating an academic career in the biomedical sciences. A minimum of six years will be required to complete the program and to be eligible for it students must hold a Bachelor of Science degree with first-class honors and have been accepted as a first-year medical student and as a Ph.D. student in the Faculty of Graduate Studies.

Senate agreed to delete the two-year program in the School of Nursing after being told that similar programs were available elsewhere and there was no great demand for it at UBC.

Dr. Marilyn Willman, director of the School of Nursing, said that of the total number of students who have enrolled for the diploma program since it was established in 1973, only 16 have opted not to return for further training leading to a degree.

Senate was also told that dropping the diploma program would allow the nursing school to reallocate resources presently spent on the program to baccalaureate and graduate education "which can be provided only by the University School of Nursing."

In other business, Senate approved motions:

- To encourage all UBC faculties to offer a greater number of courses in French; and

- To establish an ad hoc committee to investigate the form of degrees and diplomas awarded by the University.

Women sought for research

UBC women students are needed to participate in two contraception research projects being conducted by Dr. Robin Percival-Smith at the University Health Service.

One project involves a new copper intra-uterine device. The second is to test a new contraceptive pill. Both studies will run for two years.

Dr. Percival-Smith hopes results will demonstrate that the two new contraceptive aids are more effective than what is presently available.

Thirty-six volunteers are needed to test the new copper IUD.

"The new copper IUD has a different shape that we hope will mean less pain, less bleeding and a decreased pregnancy rate compared to current copper IUDs," said Dr. Percival-Smith.

Volunteers should never have used IUD as a method of contraception before. Dr. Percival-Smith said about half of the volunteers would receive the new IUD and half a conventional copper IUD.

The second study will involve 90 women and the use of a new low-dose pill.

"Low-dose pills have been developed to decrease the amount of estrogen women are exposed to. Estrogen, the female sex hormone manufactured in the ovaries, is the major component of birth control pills.

"We hope the new low-dose pill will produce a more normal hormonal pattern. We already know that it has the same effectiveness in birth control as other pills."

Anyone interested should make an appointment to see Dr. Percival-Smith. Health Service is in the Westbrook Building. The telephone number is 228-2151.

UBC's long-awaited Aquatic

UBC's long-awaited Aquatic Centre will be officially opened today, three years and more than \$5 million after the first sod was turned in the fall of 1975.

The new centre is much more than just a swimming pool: it is designed to meet the recreational, competitive and academic needs of UBC's students, faculty and staff; and to supplement existing pool facilities in the community. In addition, the John M. Buchanan Fitness and Research Centre at the pool will offer exercise apparatus and fitness testing as well as research facilities for faculty and graduate students.

For the past 24 years, UBC's outdoor Empire Pool has been a less-than-adequate substitute for a year-round facility. Built in 1954 for the British Empire Games, it is only usable between May and September. UBC has been the only major university in Canada without proper swimming facilities and attempts to acquire them go back to 1921. With the opening of the Aquatic Centre — which

incorporates the Empire Pool — it will have one of the best aquatic facilities in the country.

Jack Pomfret, associate professor of physical education and recreation and one of the people responsible for making the centre a reality, described some of the considerations that went into the planning of the new pool: "First and foremost, the School of Physical Education and Recreation has always needed a facility for an academic program to give a concentration in the aquatics area and meet the needs of the community for trained people."

The centre's academic possibilities are numerous: in addition to filling the needs of the physical education school, it has uses for other disciplines such as rehabilitation medicine in the areas of physiotherapy and work with the handicapped, and in science for teaching scuba diving techniques to future oceanographers and marine biologists.

Mr. Pomfret said there has also long been a need for the recreational aspects



Varied configuration of UBC's new indoor pool provides shallow area for swimming lessons, foreground; marked lanes for recreational and competitive swimming, upper left; and deep water for diving at far end.

Pictures by Jim Banham

UBC gets a new swim coach

Look for a revival of a strong competitive swimming program at UBC as the result of the completion of the new covered pool in the Aquatic Centre and the appointment of Jack Kelso to the staff of the School of Physical Education and Recreation.

A total of 66 students have signed up as members of the UBC swim team and have started two-a-day workouts at the Aquatic Centre. Mr. Kelso is also in the process of putting the finishing touches on a schedule of home-and-away swim meets for the team.

Mr. Kelso, who will teach undergraduate courses in physical education and recreation in addition to his coaching duties, has returned to his home province after 12 years of coaching and teaching in the United States, Jamaica, Pakistan, the Netherlands and Japan.

A native of Ireland, Mr. Kelso came to B.C. in 1952 with his family, which settled in the northern coastal town of Ocean Falls, which is widely known for the development of some of Canada's top international swimmers.

He is a former Canadian record holder in the 100 and 200-yard breaststroke and the 200 and 400 individual medley and won silver and bronze medals at the 1962 Commonwealth Games in Australia and the 1963 Pan American Games in Sao Paulo, Brazil.

In the U.S., Mr. Kelso attended Long Beach City College, where he was selected for the All-America Junior College Swim Team and was national junior college champion in the 200-yard individual medley; the University of Denver, where he attained All-America honors in 1961 and 1962; and the University of Oregon, where he was awarded his Master of Science degree and coached that university's swim teams.

After three years as aquatics director at Sandy, Oregon, Mr. Kelso joined International Schools Services and for the next nine years administered athletic programs and coached a variety of sports abroad, mostly recently at the Canadian Academy in Japan.

Centre is a place for teaching, research and recreation

of a pool, both on campus and for the use of the community at large. For the public, the centre will offer facilities to swim and scuba clubs for competitive and casual swimming, scuba training and Red Cross water safety training, especially during the summer.

From the competitive point of view, Mr. Pomfret said: "Although the facilities are not designed specifically as a competitive unit, over-all they meet those needs probably better than any other pool in North America."

For competitive swimmers, the centre has everything: the new pool has eight 50-metre lanes, eight 25-metre lanes and six 25-yard lanes. There are two one-metre diving boards, two three-metre diving boards and one five-metre diving platform. The Empire Pool has a ten-metre platform and five-, three- and one-metre diving boards, as well as six 55-yard lanes. The new pool also has a large deep area for synchronized swimming and two water polo courts.

For recreational swimmers, there are areas for people wanting a workout by swimming lengths, and a pool slide. The pool is also designed to accommodate beginning swimmers: there is a warm, shallow corner for tots and in the pool proper, the depth tapers from four metres to 1.2 metres. An added plus for recreational and beginning swimmers is a thermogradient which provides for warmer water at the shallow end, becoming progressively cooler towards the deep end where more active pursuits take place.

The location of the centre is also regarded as a significant factor in its use. The proximity of the War Memorial Gymnasium, MacInnes playing field and four tennis courts combine to make a year-round recreation centre. Nearby are the Walter Gage Residences, used to house conference delegates when UBC is not in session, and the Student Union Building where conference delegates hold meetings. During the summer, these facilities are expected to make UBC attractive as a site of athletically-oriented conferences and a potential training centre for athletes. In addition, the centre's proximity to the main bus route serving the campus is expected to encourage community use.

The pool's location, size and unique design not only lend themselves to a variety of uses, but also make many of them possible at the same time. In can accommodate as many as 738 people at once.

"It is a very versatile unit," said Mr. Pomfret. "You could easily have five dif-

ferent things going on at once: swim team practice, diving practice, synchronized swimming, beginners' lessons and tots' lessons. And the soundproofing is so good that noise from one group won't interfere with that from other groups."

During the first month of the centre's operation, a sampling of some of the numerous activities included: UBC student lessons from the so-called "scared-stiff" beginners level to advanced; Red Cross lessons for levels up to senior; a fun-oriented introduction to the water for toddlers; keep-fit sessions for women; sessions for handicapped people and for old people; synchronized swimming; diving lessons; Royal Lifesaving Society lessons; midnight swims; parents and tots, and sessions for general recreational swimming. Students can swim free during specified hours.

In addition to the pool, there is a heated whirlpool, saunas and steam-baths for men and women, and a fitness and exercise area. The centre also has a large classroom area, a conference room, teaching and administration offices and dressing rooms which serve both the new pool and the adjacent Empire Pool. Carpet-covered bleachers on the upper level can accommodate up to 250 people and portable bleachers can provide seating for 200 more. The centre is fully equipped for handicapped people with such features as ramps and an elevator which can accommodate two wheel chairs.

In the Buchanan Fitness and Research Centre, the exercise apparatus and testing equipment will serve a dual purpose. In addition to research centring on exercise physiology and sports medicine, the area provides facilities for physical fitness testing and exercise programs for members of the University community and the public.

Graduate students in physical education will administer a sophisticated battery of tests to measure such things as cardio-respiratory stress, pulmonary function and muscular strength, flexibility and endurance. They will also prescribe exercises based on the test results and suggest ways people can modify their lifestyles to improve their physical fitness.

Dr. Ted Rhodes, director of the fitness and research centre, says everyone is welcome to have an assessment. The program, including exercise prescription and counselling, costs \$20 (\$15 for students). Anyone interested can make an appointment by calling 228-4521 after Oct. 2.

The fitness and research centre, like the centre as a whole, encompasses

educational, research, recreational and community service aspects. It is no accident that the Aquatic Centre fills all these needs: its planning and design, over a period of years, involved consultation with all its potential users: all faculties on campus, students and representatives of the community at large.

Management of the centre also reflects the varied interests of its users. It is managed by a committee of six, including three University appointees and three Alma Mater Society appointees, of which one from each group represents the community. The committee members are: John Lomax, chief accountant in UBC's finance department; Mr. Pomfret; Grant Burnyeat, a Vancouver lawyer; Bernard Grady, AMS general manager; Bruce Curtis, a Vancouver teacher; and David Jiles, a student, who will be replaced for the 1978-79 term by Steven Jung, AMS director of services.

The need for an indoor pool at UBC was perceived as far back as 1921, but it was not until 1954 that the campus got a pool at all — the existing Empire Pool, constructed for the British Empire Games. Over the years, many plans for an indoor pool — including one to cover Empire Pool — were put forward and rejected for one reason or another.

It wasn't until 1972 when a new approach was initiated that things began to move. The current project was launched in January of 1972 by the formation of the Ad Hoc Committee to Get a Covered Pool for UBC under the chairmanship of Mr. Burnyeat, then president of the Alma Mater Society. More than 12,000 signatures were received in support of a request to the Board of Governors for help on the project. In October, 1972, students voted to approve a \$5 levy to provide \$925,000 for the project, and in

November, a student-faculty committee was formed to begin planning the new facility.

Community groups and individuals lent their active support and negotiations began with federal and provincial governments to assist with financing. Students conducted a city-wide drive to raise additional funds. (See box on how the pool was financed.)

During the planning and co-ordinating stage, a users' committee sent questionnaires to all students asking what they would like to have in the new facility, and all faculties were invited to submit their ideas.

The centre's designers, Carlberg Jackson Partners, sat in on hours of committee meetings, listening to the wants and needs of different groups, and the resulting unique configuration of corners and angles was determined by the need for different activities and course lengths.

The architects were faced with the task of reconciling many seemingly incompatible needs. In appearance, for example, the structure had to be easy to clean and maintain and indestructible for administration and building services; for competitive swimmers, there had to be lines in the pool and solid masses for a sense of scale; for instructors, it had to be clean, bright, pleasant, safe, inviting and non-intimidating; for recreational swimmers, it had to be light and bright and colorful.

Mr. Pomfret and the others on the planning committee are pleased with the final result: a building with wide outdoor decks and patios that blends in with its exterior surroundings; and inside, an airy, spacious, indoor-outdoor effect achieved by wide decks, skylight, windows and natural cedar panelling on the upper walls and suspended ceiling.



Swim coach Jack Kelso demonstrates isokinetic training equipment for members of UBC's revived competitive swim team.

How pool was financed

Funds for construction of the new covered pool in the UBC Aquatic Centre came from a variety of sources: the University community, including students, faculty, staff and the Board of Governors; the provincial and federal governments; and the community at large. Here's a breakdown on where the funds came from and the amounts contributed by each group.

THE UNIVERSITY COMMUNITY

| | | |
|--|------------------|-------------|
| Alma Mater Society | \$ 925,000 | |
| Staff appeal | 8,550 | |
| Faculty appeal | 74,012 | |
| President's alumni appeal | 6,755 | |
| Contributions through Alumni Fund | 35,356 | |
| Alumni Association contribution for Buchanan Fitness and Research Centre | 100,000 | |
| University of B.C. capital funds | <u>2,783,584</u> | \$3,933,257 |

GOVERNMENTS

| | | |
|---|----------------|-------------|
| B.C. Educational Institutions Capital Financing Authority | \$1,000,000 | |
| B.C. Community Recreational Facilities Fund | 333,333 | |
| Sport Canada (Physical Resources Development Program) | <u>435,000</u> | \$1,768,333 |

COMMUNITY

| | | |
|--|--------------|-----------|
| Foundations (Harold Cabtree Foundation, Montreal - \$10,000; H.R. MacMillan Family Fund, Vancouver - \$50,000) | \$ 60,000 | |
| Student community blitz | 15,743 | |
| Other | <u>2,542</u> | \$ 78,285 |

GRAND TOTAL

| | | |
|--------------------------------------|----------------|-------------|
| And here's how the funds were spent. | | |
| Project construction | \$5,493,533 | |
| Planning committee expenses | 2,000 | |
| Fund-raising costs | 124,342 | |
| Buchanan Fitness and Research Centre | <u>160,000</u> | |
| TOTAL | | \$5,799,875 |

UBC Calendar

UBC CALENDAR DEADLINES

Events in the week of

Oct. 8-14 Deadline is 5:00 p.m. Sept. 28
Oct. 15-21 Deadline is 5:00 p.m. Oct. 5
Oct. 22-28 Deadline is 5:00 p.m. Oct. 12

Send notices to Information Services, Main Mall North Administration Building, Campus. Further information is available at 228-3131.

THE VANCOUVER INSTITUTE

SATURDAY, SEPT. 30

Prof. R. Cole Harris, UBC Department of Geography, speaks on **Quebec and the Canadian Land**.

SATURDAY, OCT. 7

Dr. Leonard Kurland, Mayo Clinic, Rochester, Minnesota, speaks on **Incidence, Trends and Outcome of Disease**. All lectures in Lecture Hall 2, Woodward Instructional Resources Centre, at 8:15 p.m. A brochure listing all pre-Christmas lectures is available from the Centre for Continuing Education, 228-2181, or Information Services, 228-3131.

SUNDAY, OCT. 1

3:00 p.m. MUSEUM OF ANTHROPOLOGY. Illustrated lecture entitled **Japanese Archaeology**, by Prof. Richard Pearson, the museum's curator of archaeology. Currently on display in the museum are two special exhibitions: **Image and Life: 50,000 Years of Japanese Prehistory**; and the second annual exhibition of the **Northwest Coast Indian Artists' Guild**. Both continue until Oct. 15. The museum is open Tuesday through Sunday. Closed on Mondays. Admission is free on Tuesdays. Hours are 12 noon to 9:00 p.m. Tuesdays and 12 noon to 5:00 p.m. Wednesday through Sunday. Museum of Anthropology, 6393 Northwest Marine Drive.

7:00 p.m. SUBFILMS. *The Spy Who Loved Me*, with Roger Moore as James Bond. \$1. Student Union Building Theatre.

MONDAY, OCT. 2

9:30 a.m. URBAN LAND ECONOMICS RESEARCH SEMINAR. James Cameron and Wilson Wong, graduate students, Urban Land Economics Division, UBC, on **Neighborhood Change and Zoning**. Penthouse, Angus Building.

3:30 p.m. COMPUTING CENTRE. **Graphic Facilities at UBC.** The first in a series of three lectures by John Coulthard of UBC Computing Centre. Room 447, Computer Sciences Building.
COMPUTING CENTRE. **Survey of Statistical Programs.** The first of two lectures by Darlene Osterlin of UBC Computing Centre. Room 107, Computer Sciences Building.
OCEANOGRAPHY SEMINAR. N.G. Freeman, chief of research and development, Fisheries and Oceans Canada, Burlington, Ont., on **Fresh Water Plumes under an Ice Cover and Other Physical Oceanographic Studies at C.-C.I.W.** Room 1465, Biological Sciences Building.

3:45 p.m. MECHANICAL ENGINEERING SEMINAR. E. Fabricius, DISA Electronics, on **Velocity Measurements of Fluids and Solids Using the Laser Doppler Effect**. Room 1215, Civil and Mechanical Engineering Building.
MANAGEMENT SCIENCE SEMINAR. Prof. Daniel Granot, Commerce and Business Administration, UBC, on **Minimal Spanning Tree Co-operative Games**. Room 328, Angus Building.

4:30 p.m. ZOOLOGY/PHYSIOLOGY SEMINAR. Dr. Allen M. Scher, Department of Physiology and Biophysics, University of Washington, Seattle, on **Control of Arterial Blood Pressure: Effects of Denervation of Arterial Baroreceptors**. Room 2449, Biological Sciences Building.

TUESDAY, OCT. 3

12:30 p.m. MEDIEVAL STUDIES LECTURE. Dr. Pamela Gradon, fellow and tutor, St. Hugh's College, Oxford, on **Gower's Lover: A Late Medieval Commentary on Courtly Love**. Room 100, Buchanan Building.

BOTANY SEMINAR. Dr. Nina Pearlmutter, Botany, UBC, on **The Resistance of a Green Alga to the Herbicide Copper Sulfate**. Room 3219, Biological Sciences Building.

1:30 p.m. FACULTY WOMEN'S CLUB. First general meeting and reception for 1978-79. Speaker: C.J. Connaghan, UBC vice-president for administrative affairs, on **The Campus Scene**. General meeting and registration for interest groups will follow. Cecil Green Park.

ELECTRICAL ENGINEERING SEMINAR. Dr. Stephen Foster, Education, UBC, on **Teaching Improvement in the University: What Can be Done?** Room 402, Electrical Engineering Building.

2:00 p.m. BOARD OF GOVERNORS meeting. Tickets for the observer's gallery, which is limited to 15 persons, can be reserved by calling Debbie Lerner, President's Office, 228-2121, at least 24 hours in advance of the meeting. Board and Senate Room, Old Administration Building.

TUESDAY, OCT. 3 (Continued)

2:30 p.m. COMPUTING CENTRE. The first in a series of 12 lectures on the **FORTRAN Language** by Darlene Osterlin, Bruce Jolliffe and Carol Bird of UBC Computing Centre. Room 107, Computer Sciences Building.

3:30 p.m. ENGLISH COLLOQUIUM. J.F. Stewart on **Expressionism in *The Rainbow***. 6th Floor Lounge, Buchanan Tower.
MEDIEVAL STUDIES LECTURE. Dr. Pamela Gradon on **Some Aspects of Narrative Technique in Middle English**. Penthouse, Buchanan Building.

4:30 p.m. CHEMISTRY RESEARCH CONFERENCE. C.A. Grob, Institute for Organic Chemistry, University of Basel, Switzerland, on **Polar Substituent Effects in Reactions of Saturated Compounds**. Room 250, Chemistry Building.

7:30 p.m. MUSEUM OF ANTHROPOLOGY film series. Four films on Japan. Admission is free on Tuesdays. Museum of Anthropology, 6393 Northwest Marine Drive.

8:30 p.m. UBC PUBLIC AFFAIRS, presented by the Centre for Continuing Education, UBC. This week's program is on **Indigenous People and the Majority Culture: The Maori Experience in New Zealand**. Guest speaker is Dr. Ranginui Walker, senior lecturer in Maori Studies and Adult Education, University of Auckland. Host, Gerald Savory. Channel 10, Vancouver Cablevision.

WEDNESDAY, OCT. 4

12 noon CENTRE FOR CONTINUING EDUCATION. Dr. Max Walters, clinical professor, Medicine, UBC, on **Living Longer**. Robson Square Theatre, corner of Robson and Hornby Sts. in downtown Vancouver.

PHARMACOLOGY SEMINAR. Dr. Max M. Cohen, Surgery, Vancouver General Hospital, on **The Role of Prostaglandins in Gastric Mucosa**. Room 114, Block C, Medical Sciences Building.

12:30 p.m. NOON-HOUR CONCERT. Baroque Strings of Vancouver, directed by Gwen Thompson, perform **Music of Wilson**. Recital Hall, Music Building.

12:35 p.m. WOMEN STUDENTS' OFFICE FREESEE film series with general title **Romantic Versus Classic Art**. Continues for eight consecutive weeks until Nov. 22. Today's film is **The Romantic Rebellion**. Admission free. Student Union Building Theatre.

1:00 p.m. DEVELOPMENTAL MEDICINE SEMINAR. Prof. Peter Hahn, Paediatrics and Obstetrics and Gynaecology, on **Review of the International Congress of Nutrition in Rio de Janeiro**. Conference Room, Centre for Developmental Medicine, 811 W. 10th Ave.

3:30 p.m. CHEMICAL ENGINEERING SEMINAR. R.M. O'Brien, University of Victoria, on **Interferometry as a Chemical Tool**. Room 206, Chemical Engineering Building.

7:30 p.m. CENTRE FOR CONTINUING EDUCATION. First in a series of four lecture-discussions with the general title **New Ideas in Counselling Women**. Sue Stephenson and Gillian Walker speak on **Women and Psychiatry: An exploration of the difference between traditional and feminist counselling**. \$25. Media Centre, Robson Square, Robson and Hornby Sts. in downtown Vancouver. Information 228-2181, local 218.

THURSDAY, OCT. 5

12 noon DENTISTRY SEMINAR. Dr. Michael Cohen, professor of Oral and Maxillofacial Surgery and Pediatrics, Schools of Dentistry and Medicine, University of Washington, Seattle, on **Syndromology's Message for Craniofacial Biology**. Room 388, J.B. Macdonald (Dentistry) Building.

12:30 p.m. UBC CONTEMPORARY PLAYERS, directed by Stephen Chatman and Eugene Wilson, perform **Music of Stravinsky, Albright and Berry**. Recital Hall, Music Building.
CAREER ORIENTATION FOR STUDENTS. First in a series of panel discussions. Today's discussion is on **Career Opportunities in Federal, Provincial and Municipal Government**. Panelists include officials from the campus Canada Employment Centre, the Public Service Commission of Canada, the B.C. Public Service Commission and the District of Burnaby. Panel moderator: Dennis Magrega, UBC Office of Student Services, which is sponsoring the series with the Women Students' Office and the Canada Employment Centre. Room 106, Buchanan Building.

3:30 p.m. APPLIED MATHEMATICS AND ASTRONOMY SEMINAR. Prof. Alar Toomre, Department of Mathematics, M.I.T., on **One of the Secrets to Making Spiral Waves in Galaxies**. Room 203, Mathematics Building.

3:45 p.m. UBC JAPAN SEMINAR. Prof. Richard Pearson, Anthropology, UBC, speaks on **New Discoveries in Japanese Archaeology**. Room 217, Museum of Anthropology, 6393 Northwest Marine Drive.

4:00 p.m. PHYSICS COLLOQUIUM. A. Arrott, Simon Fraser University, on **Nucleation, Remanence, Cohesivity and Irreversibility in Ideally Self Ferro-Magnetic Metals**. Room 201, Hennings Building.

THURSDAY, OCT. 5 (Continued)

7:00 p.m. SUBFILMS. *Led Zeppelin in The Song Remains the Same*. Subfilms are shown at 7:00 p.m. Thursday and Sunday and at 7:00 and 9:30 p.m. Friday and Saturday. Admission \$1 with Library/AMS card. Student Union Building Theatre.

FRIDAY, OCT. 6

9:00 a.m. PAEDIATRICS GRAND ROUNDS. John D. Atwell, consultant paediatric surgeon, Wessex Region, Southampton Children's Hospital, on **Neonatal Intestinal Obstruction**. Lecture Hall B, Heather Pavilion, Vancouver General Hospital.

12:30 p.m. HISTORY/HISPANIC STUDIES LECTURE. A.E. Blanchette, Canadian ambassador to the Organization of American States, on **Canada's Role in Latin America: Prospects for the Future**. Room 104, Buchanan Building.

3:30 p.m. MATHEMATICS COLLOQUIUM. Prof. Alar Toomre, Department of Mathematics, M.I.T., on **Interacting Galaxies**. Room 1100, Mathematics Building Annex.

SATURDAY, OCT. 7

2:00 p.m. FOOTBALL. UBC Thunderbirds meet the University of Puget Sound. Thunderbird Stadium.

SCIENCE SPECTRUM

Members of the University community are welcome to attend the annual Science Spectrum conference to be held in the Neville Scarfe Building on Nov. 3 and 4. The theme of this year's meeting is **Energy and the Environment: New Technology in the Energy Field and the Ecological Impact on the Environment**. Preliminary programs and registration forms are available from Dr. J.R. Kamp, Science Education Department, Faculty of Education, 228-4313. Pre-registration closes Oct. 23. Conference sponsors are UBC, the Thomas Alva Edison Foundation and the B.C. Science Teachers' Association.

RECREATION UBC

MODERN DANCE CLASSES start on Oct. 3. Sessions on Monday from 5:30 to 7:00 p.m.; on Tuesdays from 4:00 to 5:30 p.m. and on Thursdays from 12:30 to 2:00 p.m. Other sessions may be available if requested. All sessions in the Armory. Register in Room 203, War Memorial Gym. Fees: \$10 for faculty and staff; \$2 for students.

FACULTY-STAFF PROGRAM: Deadline for team entries for volleyball and indoor soccer is Tuesday, Oct. 3. Entry fee is \$15 per team. Volleyball teams will play 7:30-9:30 p.m. on Mondays beginning Oct. 9. Indoor soccer teams will play 7:30-9:30 p.m. Tuesdays and Thursdays starting Oct. 10. Participants must join Recreation UBC. For full information on the faculty-staff program, contact the Intramural Office, Room 201, War Memorial Gym, 224-2401, or call Frank Maurer, 228-4329.

STUDENT PROGRAM: Upcoming events and deadlines are as follows: Joggers' three-mile run on Sept. 29 at 12:30 p.m.; overland hike at Seymour Mountain on Sept. 30 (deadline is Sept. 28), fee \$3; basketball beginning Oct. 10 (deadline is Sept. 29), fee \$15 per team and players must be Recreation UBC members; hockey beginning Oct. 10 (deadline is Sept. 29), fee \$125 per team; cross-country turkey trot on Oct. 10 at 12:30 p.m.; Arts '20 relay (8 runners from Vancouver General Hospital to campus) on Thursday, Oct. 12.

TREASURES OF TUTANKHAMUN

One hundred spaces are available for faculty, staff, students and families for a Nov. 4 visit to the Seattle exhibition at 10:00 p.m. Send \$10 per person (for admission only, non-refundable) and self-addressed envelope (stamped if off campus) to H.E. Kassis, Department of Religious Studies. No telephone calls, please.

TOASTMASTERS INTERNATIONAL CLUB

Inaugural meeting of the UBC Toastmasters International Club, open to men and women students, faculty and staff, will take place in the faculty lounge (Room 278) of the Faculty of Forestry in the H.R. MacMillan Building on Thursday, Oct. 5, at 7:30 p.m. Organizer is Dr. Ralph I. Yorsh of the Faculty of Dentistry. Experienced toastmasters from the 14 clubs in the Lower Mainland will act as program officers to get the club under way. The object of the club is to improve the public-speaking abilities of participants. The club functions without lectures in speech making or delivery. Members are expected to participate in meetings and are evaluated by other members. Membership fee of about \$30 per person includes a magazine and a speaker's manual.

CURLING

A mixed league for novices and experienced curlers will meet on Tuesdays from 5:00 to 7:00 p.m., beginning Oct. 3. For more information call Roy Taylor, 228-4186, or L. Lowe, 228-3478.

FINE ARTS GALLERY

An exhibit entitled **Selections from Corporate Collections** is currently on display in the gallery and will continue until Oct. 6. Gallery hours are 10:30 a.m. to 5:00 p.m. Tuesday through Saturday. Fine Arts Gallery, basement of north wing of Main Library.