

UBC REPORTS

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October 17, 1984



Dr. Billy Graham began his Vancouver crusade Friday (Oct. 12) in UBC's War Memorial Gym, where he spoke for more than half an hour to an audience of 3,500 students, faculty and visitors to the campus. Throughout his talk, Dr. Graham wore a UBC sweater emblazoned with the letters "B.C." presented to him by President George Pedersen during his introduction of the evangelist. After speaking, Dr. Graham lingered in the gym signing autographs and chatting with students.

California nursing teacher to speak on medical ethics

A woman prisoner has been admitted to your unit with severe malnutrition because of a hunger strike. Her orders call for her to be restrained and fed through a nasogastric tube to save her life. She begs hospital staff to consider her wishes rather than force her to take food. What should doctors, nurses and other health professionals do in such situations? Are there guidelines that can help them face such ethical issues?

Dr. Anne Davis, an internationally known and respected author, speaker, and educator on nursing issues, will address ethical issues in the health sciences as this year's Marion Woodward Lecturer. This annual public lecture, sponsored by the School of Nursing, will be held at 8 p.m. on Thursday, Oct. 25, in Lecture Hall 2 of the Woodward Instructional Resources Centre.

Dr. Davis teaches in the master's and doctoral programs in the School of Nursing at the University of California, San Francisco. She is author of numerous publications and co-author of two widely

acclaimed texts: *Ethical Dilemmas and Nursing Practice* (1978) and *Patients, Nurses and Ethics* (1981). She has held several appointments as a visiting professor at Canadian and U.S. universities.

In addition to her nursing activities, she is sought as a consultant on many national and international committees and as a speaker at health and social sciences conferences. She is currently a member of the advisory council, U.S. National Institute of Mental Health, and was recently an advisor for a conference sponsored by the Friends of the Earth.

She received her basic baccalaureate nursing education at Emory University in Atlanta and holds a master's degree from Boston University and a doctorate from the University of California, Berkeley. As well, she has held post-doctoral fellowships at Harvard and the University of Texas, Galveston.

The West Marion Woodward Lecture is made possible through a special grant to the School of Nursing from the Mr. and Mrs. P.A. Woodward Foundation.

Government, industry combine as UBC gets 3 major grants

UBC has been awarded three major grants totalling \$1.2 million through the University-Industry Program of the Natural Sciences and Engineering Research Council (NSERC).

The grants, announced last week in Ottawa by NSERC president Gordon MacNabb, are:

- An industrial research chair in forest policy totalling \$350,000 over five years in the Faculty of Forestry;
- A cooperative research and development grant of \$633,400 over three years for the establishment of a lead flash-smelting research facility in the Department of Metallurgical Engineering; and
- A cooperative research and development grant of \$246,490 over two years to upgrade the computing facilities in the Department of Oceanography.

To date, 21 firms or agencies have agreed to participate in the three projects. Their contributions total \$680,500.

The University-Industry Program was established by NSERC in January to encourage collaboration between university researchers and Canadian industries that are prepared to make a reasonable commitment to shared-cost ventures.

The program is geared towards joint research and development activities of a long-term nature with good potential for graduate student training.

NSERC is Canada's largest research granting agency, channelling close to \$300 million each year into research and the training of scientists and engineers. In 1983-84, NSERC awarded grants and scholarships totalling \$20 million to the University of British Columbia.

The creation of the research chair in forest policy is in response to a need for a new process of forest policy formulation, one which integrates forest policy research with forestry science, economic modelling, new product development, process engineering, etc., and links the user and the scientist in the process.

This need has been recognized by the forest industry and its labor unions, by the Canadian Forestry Service of Environment Canada, and by the forestry schools of Canadian universities, all of whom endorse this award.

NSERC and the forest industry, including the two largest trade unions in the forest sector, have contributed a total endowment of \$725,000 over five years with an option for renewal for a further five years.

NSERC is contributing \$70,000 per year and the private sector approximately \$75,000. Private sector contributors include a dozen major corporations from the east coast to B.C., the Cariboo Lumber Manufacturers Association, the Northern Interior Lumber Sector of the Council of the Forest Industries of B.C., as well as the Canadian Paperworkers Union and the International Woodworkers of America.

The money will fund the position of Mr. Reed, former assistant deputy minister of the Canadian Forestry Service, who will head the forest policy research program at

UBC, and research associates yet to be appointed.

Mr. Reed was assistant deputy minister from 1980 to 1983. Since then he has been

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See GRANTS*

Master plan started for all buildings

Neville Smith, director of Physical Plant, this week began a special project to assess the state of UBC's academic buildings and develop a renewal and maintenance program.

Mr. Smith will work fulltime on the project, which is expected to take about six months. During the period, assistant directors Dennis Haller and Charles Rooney will report to Bruce Gellatly, vice-president administration and finance.

Mr. Smith said each building would be assessed on a percentage scale for each of ten components — main structure, plumbing, heating, grounds, lighting, etc. — to determine what would be required to make it 100 per cent. He said the planned life of a building would also be considered.

Mr. Smith said the study would determine what expenditure would be required over the next 20 years for renewal and maintenance, and then priorities would be set for a 1985-1990 five-year plan.

Forestry gets block grant

Graduate studies and research in UBC's Faculty of Forestry have been given a boost for the second year in a row by the federal government.

The faculty has received a 1984-85 block grant of \$323,000 from the Canadian Forestry Service, most of which will be used to support graduate students and research assistants as well as research projects initiated by faculty members.

UBC is one of six Canadian universities with forestry schools which receive block grants from the federal government as part of a program aimed at improving professional manpower development in the forest sector.

Part of these funds will be used for four postgraduate fellowships, each worth \$9,500, and \$48,000 will provide salaries for graduate teaching assistants.

A total of 18 faculty members will receive block support from the block grant for a wide range of projects in the fields of tree growth, harvesting and forest ecology.

\$13.50 parlayed into \$150,000 collection

A foundation that came into existence 31 years ago with assets of \$13.50 has been responsible for providing UBC with Canada's leading collection of books on angling and game fish, according to one of its original members.

The Harry Hawthorn Foundation for the Inculcation and Propagation of the Principles and Ethics of Fly-Fishing, formed in 1953 during a Vancouver Island fishing expedition, is the organization behind the 1,600-item book collection housed mainly in UBC's Woodward Library and in Special Collections.

The foundation's honorary secretary, Prof. Stanley Read, a retired UBC English teacher, estimates that members of the group have "donated" more than \$35,000 to the foundation over the past three decades to enable UBC to purchase much of the collection, now valued at more than \$150,000.

Prof. Read uses the word donation with a grin, because the gifts are actually a series of fines levied on members for real or imaginary violations of the foundation's angling regulations. Members have been fined for everything from being absent from the foundation's annual fishing trip to using angling gear judged by members to be "unethical."

The foundation got its start in May, 1953, when eight UBC teachers and administrators repaired to Upper Campbell Lake near Campbell River on Vancouver Island at the end of the academic year.

Among the original group were UBC's then president, Dr. Norman MacKenzie; deputy president Dr. Geoffrey Andrew; UBC's then head librarian Dr. Neil Harlow; Prof. Read; and, of course, Prof. Hawthorn, then head of the Department of Anthropology and Sociology and a key figure in amassing the collection of West Coast Indian art now housed in UBC's Museum of Anthropology.

"If memory serves", Prof. Read says, "it

was Geoffrey Andrew who suggested making three pools at a quarter apiece — one for the first fish caught, one for the largest fish caught and a third for the most fish caught.

"That evening, when we assembled, various good-natured arguments broke out over the pools. I was disqualified from winning the pool for having caught the first fish because I had fished alone and no one could check the time of my catch."

The upshot, on the last night of the expedition, was the convening of a court presided over by Dr. MacKenzie and the late Roderick Haig-Brown, the noted writer and conservationist who had joined the group from nearby Campbell River, where he was a magistrate.

The friendly arguing over the pool money was resolved when the judges decreed that the cash in hand — about \$6 — would be used to establish the foundation with Prof. Hawthorn's name attached to it. When it was pointed out that the money on hand was scarcely adequate for a foundation, the judges levied fines on all who had won at poker. It all added up to \$13.50. Nevertheless, a few weeks later UBC's then Board of Governors was informed about the establishment of the foundation and gave it official approval.

Nothing that has been written about the founding of the organization indicates who suggested that Prof. Hawthorn's name should be attached to it or who thought up the rather lengthy and pompous description of its purpose. What is clear is that the fines levied by the court were to be used to purchase books for the UBC Library on angling and game fish.

In addition to books purchased with foundation contributions, the collection has been swelled by normal University acquisitions and several notable gifts of both books and money. Haig-Brown donated many of his own works and Tommy Brayshaw, the Yorkshire-born B.C. artist



UBC librarian Dr. Lee Perry displays a few of the more valuable books that are part of a 1,600-item UBC collection of angling and game fish largely funded by the Harry Hawthorn Foundation for the Inculcation and Propagation of the Principles and Ethics of Fly-Fishing, founded 31 years ago. Dr. Perry and fellow librarian Lynn Copeland recently completed a computerized version of the collection with aid of a grant from the Leon and Thea Koerner Foundation.

noted for his woodcarvings and paintings of fish and fishing, willed a valuable collection of books and other material to the foundation.

Many of the books are housed on the open shelves of UBC's Woodward Library, but rare and valuable items are kept in the Library's Sherrington Room in handsome

wooden cases donated by the Fisheries Association of B.C. in memory of Haig-Brown.

Another valuable member of the foundation over the years was the late Dr. Leon Ladner, a former member of UBC's Board of Governors who, in addition to contributing generously to the book-purchase fund, arranged for the group to meet annually at the Pennask Fishing and Game Club near Merritt in B.C.'s southern interior.

The latest bibliography listing all the items in the collection, entitled "For the Contemplative Man: A Bibliography of Works on Angling and on Game Fish in the University of British Columbia Library," has just been produced by computer, a move that will make it easier to update periodically.

The collection contains many rare and valuable items, but lacks one seminal work, according to Prof. Read — a first edition of the famed book by Izaak Walton (1593-1683) called *The Complete Angler: or, The Contemplative Man's Recreation*, published in 1653.

There were five editions of the work published in Walton's lifetime, Prof. Read says, and all five, sold as a unit in London some year's ago, fetched close to 10,000 pounds.

However, someday a purchase of the Walton work may be possible. The foundation continues to meet annually at Pennask Lake. Eleven members gathered this year for three days in August and the annual court at the end of the expedition was presided over, as usual, by Dr. MacKenzie, now almost 91 years old.

Some members were fined \$50 and others \$20 for various infractions and absences. Between one thing and another, Prof. Read says he hopes to add about \$1,000 to the coffers of the foundation in 1984 to continue expansion of its UBC book collection.

Guidelines issued for academic daycare use

There are times when there are more adults than children in UBC's child care centres, says coordinator Mab Oloman. The following guidelines on academic use of the centres were provided by Ms. Oloman.

There are 11 child care centres on the UBC campus in which full day care is provided for up to 275 children whose parents are connected with the University either as students, staff or faculty. The children range in age from 18 months to 12 years.

These facilities are used extensively by students and faculty for research and observation. Departments which have visited the centres in the last year include: Architecture, Audiology and Speech Sciences, Dental Hygiene, Education, Family and Nutritional Sciences, Linguistics, Nursing, Physical Education, Psychology and Business Administration.

Projects have ranged from daycare design to notation of 50 utterances of the 20-month-old child!

Academic use is welcomed so long as it does not disrupt the day-to-day operation of the centres, but the following guidelines should be observed:

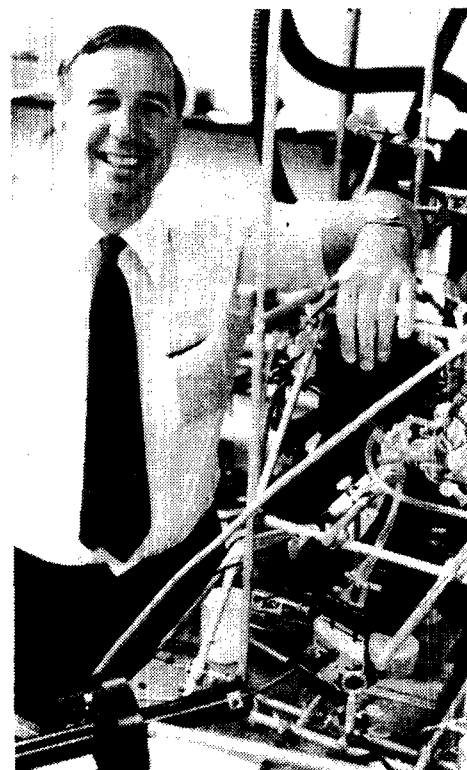
- 1) Contact the Child Care Coordinator, Hut 88, 2727 Acadia Road (228-5343) before you contact the individual centres. The facilities are also used by the community colleges for practica for their Early Childhood Education students so it is important to schedule academic use so as not to overwhelm the children with too many adults.
- 2) For simple observations where verbal interaction with a child, staff or parent will not be

recorded, explain the project and the age of the child you wish to observe and you will be directed to one of the centres.

- 3) If you plan to do research involving human subjects for questionnaires, interviews, testing, video or audio taping you must first submit a request for permission to the Ethics Committee (228-5583). A brief outline of the project should be written for the information of the parents and staff and a release statement for parents to sign should be prepared. As for the above, arrangements for the use of the centres should be made through the Child Care Coordinator's office.

Special Note to Faculty: It would be helpful if you would let the coordinator's office know in advance the course name and number of students and the due date of an assignment that may involve the Child Care Centres. It can be chaotic when 30 or 40 students want to observe that 20-month-old utterer the day before the assignment is due.

Two other facilities on or near the campus which are used for academic purposes are the Berwick Preschool (228-6110) and the Child Study Centre (736-5571). The Berwick Centre is an integrated preschool program for 45 handicapped and non-handicapped children 2½-6 years. It operates from 9 a.m.-2 p.m. weekdays. The Child Study Centre is a research and demonstration preschool operated by the Centre for the Study of Curriculum and Instruction, Faculty of Education. The centre operates a daily program for up to 90 children aged 2 to 4 years.



UBC chemistry professor Anthony J. Merer was honored earlier this month at the 31st annual conference of the Spectroscopy Society of Canada in St. Jovite, Quebec, where he received the society's Barringer Award, made to younger Canadian scientists to encourage applied research in analytical spectroscopy. Over the past 15 years, Prof. Merer has become widely known in the world of chemistry for his unique contributions to atmospheric spectroscopy. In the 1970s he made a major contribution to atmospheric spectroscopy through the analysis of the ultra-violet spectra of two major air pollutants, sulphur and nitrogen dioxide, and more recently he has been using laser spectroscopy to pioneer methods of analysing the spectra of metal oxides at the extremely high resolutions possible with lasers.

Partner program started

UBC's management school, with the assistance of the faculty's advisory council, has created an affiliates program similar to the industrial affiliates or associates programs of several major U.S. universities.

To become an affiliate, firms donate \$4,000 per year while endowments of \$100,000 or more entitle the donor to a life membership.

Dean Peter Lusztig of the Faculty of Commerce and Business Administration says the program is named "Partners in Excellence". "This partnership refers to the affiliate firm's commitment to support excellence in management education at UBC and to the faculty's commitment to keep affiliates abreast of its research activities," he said. Affiliates also receive other benefits, including special assistance in the recruitment of students and invitations as guests to a limited number of executive program offerings — the faculty's professional development courses for senior managers.

"First call on the funds raised will be support for increased placement activity by the faculty," Dr. Lusztig said. "With the assistance of our advisory council task force we expect to enrol 25 affiliates by the end of 1984 and to reach our target of 50 by the end of next year."

Asian exhibit

The Art of Bonnie Ngan Siu Mui is on display until Oct. 28 in the auditorium of the Asian Centre. The exhibit is open daily from noon to 6 p.m. with free admission.

UBC CALENDAR

CALENDAR DEADLINES

For events in the weeks of Nov. 4 and 11, material must be submitted not later than 4 p.m. on Thursday, Oct. 25. Send notices to Information Services, 6328 Memorial Road (Old Administration Building). For further information call 228-3131.

The Vancouver Institute.

Saturday, Oct. 20

Misplaced Priorities: The Human Costs of the Arms Race. Dr. Howard H. Hiatt, dean, School of Public Health, Harvard.

Saturday, Oct. 27

The Fractal Cosmos: New Shapes in the Sciences and Art. Dr. Benoit Mandelbrot, IBM Thomas J. Watson Research Centre, and mathematics department, Harvard.

Lectures take place in Lecture Hall 2 of the Woodward Instructional Resources Centre at 8:15 p.m. Admission is free.

SUNDAY, OCT. 21

Lutheran Campus Ministry.

'Boat People: Then and Now.' Panel discussion. Lutheran Campus Centre. 7 p.m.

Early Music Recital.

John Gibbons: Bach's Goldberg Variations. Ticket information at 732-1610 or 228-3113. Recital Hall, Music Building. 8 p.m.

MONDAY, OCT. 22

History of Medicine Lecture.

Pharmacy in Recent Times. Dr. A.G. Mitchell. Room 80B, Woodward Instructional Resources Centre. 8:30 a.m.

Plant Science Seminar.

Research on Forest Tree Seed. Dr. O. Sziklai. Forest Sciences, UBC. Room 342, MacMillan Building. 12:30 p.m.

Mahlzeit.

An opportunity to hear and speak German. Everyone welcome. International House. 12:30 p.m.

Mechanical Engineering Seminar.

Fluctuating Lift on Cylinders of Rectangular Cross Section in Smooth and Turbulent Flows. F. Namiranian; and Investigation into Introduction of a Third Element in Friction Welding. J.R. Neelam. Room 1202, Civil and Mechanical Engineering Building. 3:30 p.m.

The Pedersen Exchange.

An opportunity for members of the University community to meet with President George Pedersen to discuss matters of concern. Persons wishing to meet with the president should identify themselves to the receptionist in the Librarian's office, immediately to the left of the main entrance to the Main Library. 3:30 to 5 p.m.

Applied Mathematics Seminar.

Some Phenomena Arising in Discrete Modeling of Reaction-Transport-Systems. Prof. Erich Bohl, Mathematics and Statistics, University of Calgary. Room 229, Mathematics Building. 3:45 p.m.

Biochemical Discussion Group Seminar.

Specific DNA/Drug Binding, or How to Read a Helix. Dr. R.E. Dickerson, Molecular Biology Institute, University of California, Los Angeles. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Zoology Physiology Group Seminar.

Current Perspectives on the Physiology of Decompression. Dr. B. D'Aoust, Common Sensing Inc., Bainbridge Island, Wa. Room 2449, Biological Sciences Building. 4:30 p.m.

Children in Sport.

Film festival focuses on children and youth in sport. Continues Oct. 29 at 7 p.m. at Simon Fraser University. For details, call 228-5342. Room 1224, Scarfe Building. 7 p.m.

TUESDAY, OCT. 23

Computer Science Colloquium.

A Microprogramming Logic. Werner Damn, Lehrstuhl für Informatik II, RWTH Aachen, W. Germany. Room 301, Computer Science Building. 11:30 a.m.

Film/Discussion.

On Our Own: Focusing on the lives of two women. For details, call the Women Students' Office at 228-2415. Rooms 106, A, B and C, Brock Hall. 12:30 p.m.

Marketing Workshop.

A Comparison of Methods for Improving Prediction of Conjoint Analysis. Vinay Kanetkar and Philippe Cattin. Penthouse, Angus Building. 12:30 p.m.

Chemistry Lecture.

Ligand Substitution and Electron-Transfer Processes in Organo-f-Element Chemistry. Prof. Richard A. Anderson, Chemistry, University of California, Berkeley. Room 250, Chemistry Building. 1 p.m.

Botany Seminar.

Fluorescence Microscopy: Research Applications in Agriculture and Plant Research. Gary Fulcher, Agriculture Canada, Ottawa. Room 3219, Biological Sciences Building. 12:30 p.m.

Statistics Workshop.

Consistent Estimation in Partially Observed Random Walks. Dr. Peter Guttorp. Room 101, Ponderosa Annex C. 3:30 p.m.

Oceanography Seminar.

An Oceanic Carbon Model of CO₂ Transfer Between Atmosphere, Surface and Deep Ocean by a Productivity Detritus Pump. Dr. C.S. Wong, Institute of Ocean Sciences, Sidney, B.C. Room 1465, Biological Sciences Building. 3:30 p.m.

Gardner Foundation Seminar.

Viruses, Genes and Cancer. Dr. Harold Varmus, Microbiology and Immunology, School of Medicine, University of California. Lecture Hall 1, Woodward Instructional Resources Centre. 4 p.m.

Archaeological Institute Lecture.

Posidonius and the Celts. Dr. Frederick Winter, A.I.A., New York. Theatre, Museum of Anthropology. 8 p.m.

WEDNESDAY, OCT. 24

Pharmacology and Therapeutics Seminar.

Clinical Problems Associated with Rubella Infection. Dr. A. Tingle, Paediatrics, Faculty of Medicine, UBC. Room 317, Block C, Medical Sciences Building. 12 noon.

Noon-Hour Concert.

Music of Brahms and E. Wilson. Michael Borschel, clarinet; and Robert Rogers, piano. Recital Hall, Music Building. 12:30 p.m.

Ethnic Studies Lecture.

Australian Attitudes Towards Immigrants. Ronald Taft, emeritus professor, Monash University, Melbourne. Room 2206, Anthropology and Sociology Building. 12:30 p.m.

Classics Lecture.

The Conversion of Constantine. Prof. T.D. Barnes, Classics, University of Toronto. Room A100, Buchanan Building. 12:30 p.m.

Forestry Seminar.

Ecological Problems in Northern Forests and Woodland. Prof. Stanley J. Rowe, Plant Ecology, University of Saskatchewan. Room 166, MacMillan Building. 12:30 p.m.

Policy Seminar.

Using Mental Accounting in a Theory of Consumer Behavior. Dr. Richard Thaler, Cornell Graduate School of Management. Penthouse, Angus Building. 1 p.m.

Chemical Engineering Seminar.

A Study of Particle Flow Between Fluidized Beds. J. Zhu, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 2:30 p.m.

Geography Colloquium.

Meinig's 'Geography as an Art'. Debate. Room 201, Geography Building. 3:30 p.m.

UBC Press gets CAUT contract

The paperback series, the CAUT *Liaison Books*, has been taken over by a new publisher, the University of British Columbia Press, and will appear with a new format and a new logo.

The general editor of the series is Allan Evans, professor of classics at UBC, and enquiries from potential authors are welcome. Call 228-4063.

Biochemical Discussion Group Seminar.

Messenger RNA Degradation and Its Roles in Gene Expression. Dr. Joel Belasco, Genetics, Stanford University School of Medicine. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Animal Resource Ecology Seminar.

Merganser Predation of Juvenile Salmonids: Salmon Enhancement or Merganser Enhancement? Dr. Chris Wood, Pacific Biological Station, Nanaimo, B.C. Room 2449, Biological Sciences Building. 4:30 p.m.

Cerebral Palsy Education Series.

A Problem-Solving Approach to Cerebral Palsy. Laurie Snider, occupational therapist. Activity Room, Vancouver Neurological Centre, 1195 W. 8th Ave. 7 p.m.

Cinema West.

The Horse's Mouth. Admission is \$1.50. Auditorium, Student Union Building. 7:30 p.m.

Dorothy Somerset Studio.

Opening night of Tom Stoppard's play *Enter a Free Man*. Continues until Saturday, Oct. 27. Tickets are \$5, \$4 for students. Two shows on Saturday at 5 and 8:30 p.m. For more information, call 228-2678. Dorothy Somerset Studio. 8 p.m.

Sedgewick Lecture.

'Diminutive Observations': The Book World of Dr. Samuel Johnson. Roy Stokes, former head of Librarianship, UBC. The fifth in a series of lectures honoring Dr. Garnett Sedgewick (1882-1949), founding head of UBC's English department. Recital Hall, Music Building. 8:30 p.m.

THURSDAY, OCT. 25

Leslie L. Schaffer Lecture.

Understanding Forest Landscapes. Prof. Stan Rowe, Plant Ecology, University of Saskatchewan. Room 166, MacMillan Building. 12:30 p.m.

Asian Centre Film.

Golden Mountain. Free admission. Auditorium, Asian Centre. 12:30 p.m.

Religious Studies Colloquium.

Messenger, Saviour and Revolutionary: The Roles of Maitreya in Chinese Popular Religion. Prof. Daniel L. Overmyer, Asian Studies, UBC. Room A202, Buchanan Building. 1 p.m.

Health Promotion Exchange.

Can a Private Clinic Do Health Promotion and Evaluation — and Survive? Fee is \$15. Room 253, Mather Building. 1 p.m.

Condensed Matter Seminar.

Physics of Ternary Systems. Jeff Dahn, Chemistry, NRC, Ottawa. Room 318, Hennings Building. 2:30 p.m.

China Seminar.

Is There a Work Ethic in Chinese Society? Prof. Steven Harrell, Anthropology, and the Jackson School of International Studies, University of Washington. Room 604, Asian Centre. 3:30 p.m.

Physics Colloquium.

The First Measurement of the Lamb Shift in Muonium. Chris Oram, TRIUMF. Room 201, Hennings Building. 4 p.m.

Social Work Workshop.

Dream Analysis: Understanding the Symbols of the Sub-Conscious. Led by Lorraine Milardo. Fee is \$55. Continues on Friday from 9 a.m. to 5 p.m. Details at 228-2255. A/V Lounge, School of Social Work. 7 to 10 p.m.

SUB Films.

Romancing the Stone. Continues at 7 and 9:30 p.m. on Friday and Saturday and 7 p.m. on Sunday. Admission is \$1.50. Auditorium, Student Union Building. 7 p.m.

CUSO Information Session.

Ray Clark, CUSO Regional Field Officer in Papua New Guinea, will talk about CUSO postings overseas. Film: *A Path of Their Own*. Recruitment information will be available. Free admission. Upper Lounge, International House. 7:30 p.m.

Marion Woodward Lecture.

Ethical Issues in the Health Sciences: How Can We Be Sure of the Answers When We Are Not Sure of the Questions? Prof. Anne J. Davis, School of Nursing, University of California. Lecture Hall 2, Woodward Instructional Resources Centre. 8 p.m.

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assistant to the president of Weyerhaeuser Canada Ltd., a special consultant to the Nova Scotia Royal Commission on Forestry, and consultant to the B.C. Ministry of Forests and the U.S. Forest Service.

At UBC Mr. Reed will direct research in a number of policy areas where Canada is weak compared with its competitors because of a lack of adequate information upon which to base decisions.

The areas include trade policy, Pacific Rim marketing strategy, labor, management and capital productivity, income tax treatment of forestry and increased biotechnology research.

The flash-smelting research facility in the Department of Metallurgical Engineering will be one of few in the world.

New flash-smelting processes are seriously being considered as replacement for the aging sinter strand/blast furnace process currently used in Canadian lead smelters.

The basic advantages of flash-smelting over current methods are the rapidity and labor-saving aspects of the reactions and that the reactions are carried out in a single, sealed reactor confining all fumes and noxious gases to an easily handled gas stream.

Although the flash-smelting process has been developed on a pilot scale in the U.S.S.R. and Finland, it has not yet operated on a commercial basis; thus Canadian lead producers could be the pioneers in this area.

Because little experimental and technical data exists on the process of flash smelting, fundamental research in this area is urgently required by the Canadian lead industry.

With the assistance of the NSERC grant, Dr. Keith Brimacombe, a recognized expert in the field of process metallurgy, and Prof. Gregory Richard, both of UBC's Department of Metallurgical Engineering, will construct a small flash system capable of smelting up to 2 Kg/min of lead

concentrates. The flash system will be used to study the effect of concentrate type, feed rate, concentrate/oxygen ratio, and burner design on the smelting of lead concentrates supplied by Canadian lead producers.

This project is also supported by four prominent Canadian companies — Cominco, Noranda, Inco, and Hatch Associates (major consultants to the metallurgical industry). The total contribution of these companies over the three-year period amounts to \$180,000.

NSERC will contribute \$246,490 over two years to the upgrading of the current tracking-antenna and satellite receiving facility in the Department of Oceanography through the development of a computer preprocessor and computer system.

The original facility has been funded primarily through NSERC strategic grants with an additional five-year loan of equipment from MacDonald-Dettwiler & Associates Ltd. (MDA). The upgrade will make it possible to record incoming satellite data directly on disk rather than on magnetic tape; in so doing, subsequent processing will be streamlined and problems with tape systems avoided.

The data collected are used by Dr. William Emery in a variety of projects studying wind and sea surface temperature patterns. In addition, data are made available to scientists at the Institute of Ocean Sciences at Patricia Bay and to fisheries scientists in Vancouver.

This satellite receiving facility, the only one located within a Canadian university, offers a unique training environment for graduate students and other professionals. The training received by UBC graduates should prove valuable to both government agencies and industries interested in satellite data.

The commitment of MacDonald-Dettwiler and Associates Ltd. to the funding of this equipment amounts to \$130,500 over two years.

UBC CALENDAR

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FRIDAY, OCT. 26

Social Work Workshop.
Helping Couples with Sex-Role Conflicts. Led by Mary Russell. Fee is \$28. For details, call 228-2255. Room E, School of Social Work. 9 a.m. to 3 p.m.

Faculty Recital.

Music of Bolcom, Berio and others. Patrick Wedd, organ. Recital Hall, Music Building. 12:30 p.m.

Medical Genetics Seminar.

Multiple Sclerosis in B.C. - Genetics and Prevalence. Dr. A.D. Sadovnick. Parentcraft Room, Grace Hospital. 1 p.m.

Linguistics Colloquium.

Stratum Theory in Mandarin. Marjorie Chan, Linguistics, UBC. Room D224, Buchanan Building. 3:30 p.m.

Mathematics/Computer Science Colloquium.

Iteration of Rational Functions. Prof. Benoit Mandelbrot, Harvard University and IBM Watson Lab. Room 201, Hennings Building. 3:30 p.m.

Football.

UBC vs. the University of Alberta. Thunderbird Stadium. 7:30 p.m.

Ethnic Studies Lecture.

Rewriting Myths from the West and the East in a Feminist Perspective. Suniti Namjoshi. Room A106, Buchanan Building. 12:30 p.m.

SATURDAY, OCT. 27

Social Work Workshop.
The Poverty Game: Playing for Real. Led by Michael Clague and Gus Long. Fee is \$30. For details, call 228-2255. A/V Lounge, School of Social Work. 9 a.m. to 4 p.m.

Women's Fieldhockey.

Vancouver Secondary School Championships. Spenser Field. All day.

SUNDAY, OCT. 28

Autumn Colors at UBC.

The Botanical Garden presents a slide presentation and tour on new introductions to the garden and a conducted walk through the Asian Garden to see the marvellous fall colors at UBC. Cost is \$3, \$2 for Davidson Club members. For information, call 228-3928. Botanical Garden, 6250 Stadium Road. 10 a.m.

Lutheran Campus Ministry.

Job: William Blake's Spiritual Development. Peter Taylor will show slides and reveal another exciting facet of this complex, 'Renaissance' man. Lutheran Campus Centre. 7 p.m.

MONDAY, OCT. 29

Plant Science Seminar.

Life Without a Host: Some Aspects of Development in Asexually Grown Flax Rust Fungus. Linda Verbeek, Plant Science, UBC. Room 342, MacMillan Building. 12:30 p.m.

Mahlzeit.

An opportunity to hear and speak German. Everyone welcome. International House. 12:30 p.m.

The Pedersen Exchange.

An opportunity for any member of the University community to meet with President George Pedersen to discuss matters of concern. Persons wishing to meet with the president should identify themselves to the receptionist in the Librarian's office, which is immediately to the left of the main entrance to the Main Library. The president will be available every Monday when he is on campus, from 3:30 to 5 p.m.

Mechanical Engineering Seminar.

TBA. Room 1202, Civil and Mechanical Engineering Building. 3:30 p.m.

Biochemistry/Biochemical Discussion Group Seminar.

Liver Cancer and Unusual Sphingoglycolipids. Dr. Gu Tian-jue, Shanghai First Medical College. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Zoology Physiology Group Seminar.

Hormonal Control of Reproduction in the Rainbow Trout. Dr. J.P. Sumpter, Applied Biology, Brunel University, U.K. Room 2449, Biological Sciences Building. 4:30 p.m.

Cinema 16.

Pourquoi Pas? Admission is \$2. Student Union Building. 6:30 and 8:30 p.m.

TUESDAY, OCT. 30

Botany Seminar.

Research on Energy Transfer in Chloroplast Membrane and its Practical Implications. Radovan Popovic, Biological Sciences, SFU. Room 3219, Biological Sciences Building. 12:30 p.m.

Marketing Workshop.

Who are the Consumer Activists? Trent Punnet and Jim Forbes, Commerce, UBC. Penthouse, Angus Building. 12:30 p.m.

Chemistry Lecture.

Novel Behavior of 1,5-Biradicals Generated by δ -Hydrogen Abstraction in Photoexcited States. Prof. Peter J. Wagner, Chemistry, Michigan State University, East Lansing. Room 250, Chemistry Building. 1 p.m.

Oceanography Seminar.

Arsenic Speciation in the Marine Environment. Dr. Ken Reimer, Chemistry, Royal Roads Military College, Victoria, B.C. Room 1465, Biological Sciences Building. 3:30 p.m.

WEDNESDAY, OCT. 31

Pharmacology and Therapeutics Seminar.

Behavioral Neurophysiology of the Feline Locus Coeruleus Complex. Dr. Peter Reiner, Neurological Sciences, UBC. Room 317, Block C, Medical Sciences Building. 12 noon.

Forestry Seminar.

Tree and Stand Simulation Research. Dr. Ken J. Mitchell, Research branch, Ministry of Forests. Room 166, MacMillan Building. 12:30 p.m.

Noon-Hour Concert.

Music of Vivaldi, Nussio, Cascerino, Jeanjean. Camille Churchfield, flute; Christopher Millard, bassoon; and Jane Gormley, piano. Recital Hall, Music Building. 12:30 p.m.

Chemical Engineering Seminar.

The Influence of the Circumferential Heat Conduction on the Perimeter Average Heat Transfer Coefficient with Flow Boiling in Horizontal Tubes. H. Muller-Steinhagen, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 2:30 p.m.

Geography Colloquium.

Inner City Revitalization in Canada since 1971. David Ley, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.

Water-filled Treeholes: Intercontinental Comparisons, Community Dynamics and the Experimental Testing of Food-Web Theories. Dr. Roger Kitching, Australian Environmental Studies, Griffith University, Australia. Room 2449, Biological Sciences Building. 4:30 p.m.

SUB Films.

The Rocky Horror Picture Show and *Frankenstein*. Shows at 7 and 9:30 p.m. Wednesday through Sunday. Auditorium, Student Union Building. 7 and 9:30 p.m.

THURSDAY, NOV. 1

UBC Chamber Ensembles.

Martin Berinbaum, David Branter, Gordon Cherry, Jane Coop, Paul Douglas, Lee Kum Sing, Robert Rogers and Eric Wilson, directors. Recital Hall, Music Building. 12:30 p.m.

Condensed Matter Seminar.

Conjugated Polymers in Solution: Coils, Rods and Gels. Alan Heeger, University of California, Santa Barbara. Room 318, Hennings Building. 2:30 p.m.

Physics Colloquium.

TBA. William Unruh, Physics, UBC. Room 201, Hennings Building. 4 p.m.

UBC Chamber Singers.

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

FRIDAY, NOV. 2

Social Work Workshop.

Working with Women Who Were Sexually Abused as Children: A Workshop for Experienced Practitioners. Led by Louise Doyle and Leigh Forrest. Fee is \$33. Details at 228-2255. A/V Lounge, School of Social Work. 9:30 a.m. to 4:30 p.m.

Computer Science Colloquium.

PARLOG: Parallel Programming in Logic. Steve Gregory, Imperial College, London. Room 301, Computer Science Building. 11:30 a.m.

Women and Alcohol.

Ms. Gaynor Simpson of the Alcohol and Drug Program, Ministry of Health, will lead a discussion on women and alcohol. For details, call the Women Students' Office at 228-2415. Room 223, Brock Hall. 12:30 p.m.

UBC Chamber Singers.

Cortland Hultberg, director. Recital Hall, Music Building. 12:30 p.m.

Reading.

Reading by Canadian novelist and short-story writer, Audrey Thomas, author of *Mrs. Blood, Real Mothers* and the recent *Intertidal Life*. Sponsored by the Canada Council. Room B322, Buchanan Building. 12:30 p.m.

Linguistics Colloquium.

Reduplication in Nisgha. Wendy Thompson, Linguistics, UBC. Room D224, Buchanan Building. 3:30 p.m.

Women's Basketball.

Blue-Gold Game. War Memorial Gym. 6:45 p.m.

Early Music Recital.

Anner Bylisma: Bach's Complete Cello Suites. Repeated on Saturday, Nov. 3, at 8 p.m. Ticket information at 732-1610 or 228-3113. Recital Hall, Music Building. 8 p.m.

SATURDAY, NOV. 3

Social Work Workshop.

Teaching Patients and Families about Schizophrenia. Led by Roger Neill. Fee is \$33. For details, call 228-2255. A/V Lounge, School of Social Work. 9:30 a.m. to 4:30 p.m.

Football.

UBC vs. Montana Tech. Thunderbird Stadium. 7:30 p.m.

Notices . . .

Nuclear war conference

An international conference focusing on the risk of nuclear war, the scope for arms control and the chance for a secure peace takes place at UBC from Friday, Oct. 19 to Sunday, Oct. 21. For details, call 222-5238 or 733-3161.

Continuing Ed programs

UBC's Centre for Continuing Education offers a wide range of non-credit programs, including the following: *Where Animals Appear* - animal helpers in dreams, folktales and nature stories, Nov. 23 and 24; *Christianity and Challenge*, Nov. 3; *Peter Koesternbaum on Clinical Philosophy: A New Image of the Person*, Oct. 26; *Reality Therapy for the Busy Counsellor and Therapist*, Dec. 1 and 2; *Adventures in Consciousness*, Nov. 9 and 11; *Releasing the Natural Voice: Learning to Speak Out*, Oct. 20 and 21; *The Art of Emotional First Aid*, Nov. 3 and 10; *Meditation of Self*, Part I on Nov. 3, Part II on Nov. 4; *Orwell: A Road from Mandalay*, Oct. 26; *Self-Employment Opportunities in the Computer Industry*, Oct. 27. For information on these programs, call 222-5261.

Military College dinner

The Vancouver branch of the Royal Military College Club of Canada is sponsoring a dinner at the UBC Faculty Club Nov. 8, to mark the 100th anniversary of the club. Prof. Robert Reid, branch president, said the cost is \$30 per person and anybody interested is welcome. Guest speaker is Dr. R.B. Byers, director of the Research Program in Strategic Studies at York University, who will speak on Canadian Defence Policy. Reservations should be made through Prof. Reid in UBC's law faculty, 228-3435.

Daycare

Tillicum over-three co-op daycare has a vacancy for Nov. 1. For information, call Valerie Raoul, 224-3723 (evening) or 228-4033 (day).

Residences available

Sir John Wilton, director of London House, a British graduate student residence for Commonwealth, American and Common Market students, will be on campus on Friday, Oct. 19. He will be in the Board Room of International House between 11 a.m. and noon, and he would be glad to meet with any student planning to take graduate work in London who might be looking for reasonably-priced, centrally-located accommodation, and with faculty members who are looking for apartments in London for themselves and/or their families when they are on study leave.

Faculty Club exhibit

An exhibit of recent paintings by Mona Goldman will be on display at the Faculty Club from Oct. 22 to Nov. 9.

Film library

UBC's Film Library, located in Room 316 of the Library Processing Building, has a large collection of films and videos available for rent by UBC personnel and the public. For more information, call 228-4400 or 228-4520.

AMS art gallery

Works by Jean Kempinsky. Gallery open Monday to Friday, 10 a.m. to 4 p.m. Student Union Building. Exhibit takes place Oct. 22 to Nov. 2.

Daycare

Daycare openings now available for children 18 months-3 years at UBC Campus Co-op Unit II. Call 224-3828 (days).

Museum exhibit

The Museum of Anthropology is sponsoring a special exhibit on the Western red cedar and its role in the traditional cultures of the northwest coast Indians. A series of demonstrations by local native Indians are being presented in conjunction with the exhibit. For details, call 228-5087.

Faculty/Staff exercise class

Faculty/Staff exercise classes take place Tuesdays and Thursdays, 12:30 to 1:05 p.m. in Gym E of the Robert Osborne Centre. For information, call 228-3996.

First Class Mail

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