UBC REPORTS

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1985 winners of UBC research prizes named

Dean John H. McNeill of the Faculty of Pharmaceutical Sciences and Dr. Daniel R. Brooks of the science faculty have been named winners of top faculty research prizes at UBC.

Dr. McNeill, who has an international reputation for his work in the field of cardiac research, is the 16th recipient of the Prof. Jacob Biely Faculty Research Prize. Dr. Brooks is the first winner of the Charles A. McDowell Award for Excellence in Research, a prize established earlier this year to recognize outstanding achievements in pure or applied science.

Dr. McNeill, one of Canada's leading pharmacologists, has made significant contributions to the understanding of the effects of cardiovascular drugs. He has published more than 200 articles in his areas of research, which include studies on the mechanisms underlying the supersensitivity of cardiac tissues to biogenic amines, the role of cyclic AMP in the relaxation of the uterine smooth muscle, the characterization of histamine receptors, and more recently, the effect of diabetes on the heart.

Dr. McNeill has been the recipient of numerous research awards, including a Research Professorship Award from the Medical Research Council in 1981, the first such award made to a professor in a pharmacy school, the 1983 McNeil Pharmaceuticals Award, and the 1984 Upjohn Award from the Pharmacological Society of Canada, the most prestigious award given by the society.

In addition to his research activities Dr. McNeill is active in education programs for professionals and the public on drug use and abuse. He served as associate dean for graduate studies and research in the Faculty of Pharmaceutical Sciences before becoming dean on Jan. 1.

The Jacob Biely Faculty Prize was established by George Biely, a well-known figure in the B.C. construction industry, in honor of his brother, Prof. Jacob Biely, an internationally known poultry scientist who died in 1981. Jacob Biely was associated with UBC as a student, researcher and administrator for half a century.

Prof. Charles McDowell, former head of UBC's chemistry department who received the special appointment of University Professor in 1981, established the Charles A. McDowell Award of Excellence to encourage outstanding young scientists. The first recipient of the medal, Dr. Daniel Brooks of the zoology department, has made contributions to evolutionary theory that have placed him in the front rank of internationally recognized Canadian biologists.

Dr. Brooks has developed a new theory of evolution which challenges the Darwinian or neo-Darwinian view of evolution and which unifies physics and biology. He has proposed that biological evolution involves a high-level chemical chain reaction and that evolution can be described in terms of the laws of physics governing such reactions.

Under Dr. Brook's theory natural selection plays a minor role and species evolve along the lines of least resistance, accommodating each other's presence rather than competing for existence. He recently co-authored a book with Edward O. Wiley of the University of Kansas entitled "Evolution as Entropy: Toward a Unified Theory of Biology".

Dr. Brooks received the degrees of bachelor and master of science from the University of Nebraska in 1973 and 1975 and earned a Ph.D. in evolutionary systematics from the University of Mississippi in 1978. He joined the UBC faculty in 1980.

UBC cows get a new roof over heads

Some 340 dairy cattle on UBC's 607-hectare agricultural research farm on Vancouver Island have a new roof over their heads.

A new dairy barn 340 feet long and 102 feet wide was officially opened today (Wednesday, Aug. 14th) by UBC's president *pro tem.*, Dr. Robert Smith, at a brief morning ceremony at the farm, which is located between Courtenay and Campbell River.

In addition to providing shelter for the UBC dairy herd, the $240,000 barn is also capable of storing 450 tons of hay. The barn also boasts an eight-station computer feeder so that each milking cow in the dairy herd can be fed in relation to her milk production.

In 1984-85, the 200 milking cows in the herd produced nearly 1.3 million litres of milk valued to $668,253. The sale of milk and farm animals provides the income that makes the research farm a self-supporting operation. The cows are milked in a parlour attached to the new barn where a single farm worker can milk 12 cows at a time.

In addition to serving as a centre for experimental cattle breeding, the UBC farm is the site for forage crop research and is an official test site for the B.C. Corn Committee's performance trials. Graduate students in Agricultural Sciences also use the farm as a site for experiments that serve as the basis for their graduating theses.

The farm is under the direction of Dr. Stan Freyman, who was awarded his master's and Ph.D. degrees by UBC. He heads a staff of ten persons who look after the day-to-day operation of the farm.

The farm was a bequest to the University from the late Barret C. Montford, a retired New York banker and real estate investor, who had an intense interest in the practice and improvement of agriculture.

Dr. Hannah Polowy and the Makarenko Medal

Ukrainian republic honors UBC educator with medal award

Dr. Hannah Polowy of UBC's Faculty of Education is the first non-Russian educator to be awarded the Anton Makarenko Medal by the Ukrainian republic's ministry of education.

The award was made to Dr. Polowy in May when she was in Kiev as leader of the 6th education study tour of the UBC Centre for Continuing Education.

First awarded 20 years ago, the Makarenko Medal honors one of Russia's leading educators who lived from 1888 to 1939. He is credited with founding the methodology of education in the Ukrainian republic, where more than a million educators are involved in all levels of education from pre-school to universities.

Dr. Polowy, a fourth-generation Canadian whose ethnic background is Ukrainian, was cited by Ukrainian education minister Mykhailo Fomenko at the award ceremony for her dedication to internationalism in education, her contributions to Canadian education nationally and provincially and for her advocacy of humanitarianism, collective process and social responsibility, all principles forwarded by Makarenko.

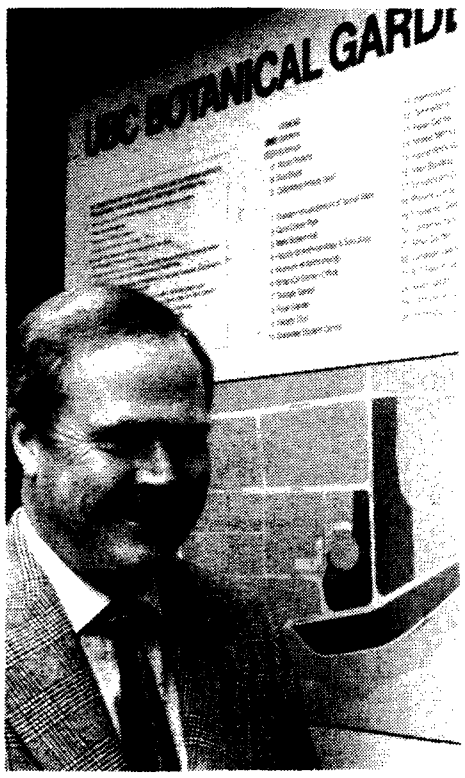
Dr. Polowy is currently involved with a team of researchers in a comparison of child-rearing practices in Japan and Canada.

She has also been involved in organizing an annual set of readings of the work of famed Ukrainian poet Taras Shevchenko (1800-1849) at various Canadian universities for scholars of Ukrainian language and literature. Shevchenko was the first Ukrainian poet to write in his native language and is comparable to Scottish poet Robert Burns in his use of the vernacular.

Man-in-Motion Tour

Update: Aug. 14, 1985. Rick Hansen has travelled 6,100 miles on his round-the-world wheelchair tour to raise funds for spinal cord research and rehabilitation, and is currently in Malmo, Sweden. Contributions in B.C. so far total $407,000. If you'd like to make a donation, call 687-5200. Call this number if you're prepared to volunteer to help with tour administration.

CAMPUS PEOPLE



Roy Taylor

Prof. Roy L. Taylor, director of UBC's Botanical Garden since 1968, has been appointed president and chief executive officer of the Chicago Horticultural Society and director of the Chicago Botanic Garden. Prof. Taylor, an expert on the flora of British Columbia and the author of three books on the subject, has also been a professor in the Department of Plant Science at UBC. He assumes his new position in Chicago in September.

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Dr. Charles Ungerleider of UBC's Faculty of Education is the co-author, with Ernest Krieger of Sentinel secondary school in West Vancouver, of *Television and Society: An Investigative Approach*, published by Irwin Publishing. Although basically a school text for secondary and college-level students, the authors deal with such questions as: "Do camera closeups and angles affect viewers' emotions? Is the news managed?" and "What are the underlying assumptions about the use of violence on television?" The publishers describe the book as a "uniquely Canadian text" that "will enable readers both to improve their own viewing habits and to reach a critical awareness about the use and influence of this pervasive medium."

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Dr. Michael Duke of UBC's Department of Asian Studies is the author of *Blooming and Contending: Chinese Literature in the Post-Mao Era*, published by the Indiana University Press. Chinese literature has been the slave of politics since 1948 and especially during the Cultural Revolution. So repressed and convoluted is most Chinese Literature that the West cannot read it as literature at all but rather as sociological and political texts. Dr. Duke believes that this situation has changed enough since 1977 to permit genuine literary analysis. Chapter one covers the significant changes in the Chinese party line on literature and art during this period and provides the backdrop for literary and artistic endeavour. Subsequent chapters deal with the critique of Chinese literature by China's own writers.

Prof. Edward G. Hauptmann, a 20-year member of UBC's Department of Mechanical Engineering, is one of ten members of his discipline who are the first to be named fellows of the Canadian Society for Mechanical Engineering. Prof. Hauptmann was the only person from B.C. to be named a fellow.

A heat-transfer expert of international reputation, Prof. Hauptmann is currently acting head of his UBC department. He is a frequent consultant to governments and industry.

Prof. Hauptmann is a former recipient of the Ralph R. Teetor Award of the Society of Automotive Engineers for engineering education and in 1975 was awarded the Governor-General's Medal for Engineering Design for his work on a complex fish-processing machine.

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Prof. Nelly Auersperg of UBC's anatomy department has been named a Terry Fox Research Scientist by the National Cancer Institute of Canada for her contributions to cancer research.

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Dr. Walter Hardwick, president of the Knowledge Network since its formation in 1980, has relinquished that post but will continue to serve as the chairman of the network's board of directors.

Succeeding Prof. Hardwick, who continues to teach in the UBC geography department, as president of the network will be Glen M. Farrell, presently director of University Extension and Community Relations at the University of Victoria, who assumes the post on Sept. 1.

The Knowledge Network is B.C.'s educational TV service. It telecasts 98 hours of education and information programming each week to 250 B.C. communities.

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Dr. Sydney J. Butler of the Department of Language Education in the education faculty, is a member of a three-person commission formed to investigate the impact of the various external tests which are used by the Ministry of Education, school districts and individual schools and colleges to assess student performance in English, including reading.

The Commission on Testing of English/Language Arts will first survey schools and colleges to determine which tests are being used, for which students, and for what purposes. Then it will analyse the most commonly used tests to determine their validity in respect to the school curriculum and their reliability in terms of their technical construction and standardization.

After publishing an interim report in the fall, the commission will involve teachers and parents in a discussion of its findings to assess the impact of tests on school programs and curricula.

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Dr. Peter Larkin, associate vice-president for research at UBC, has been appointed a member of the Science Council of B.C. Dr. Larkin, currently a member of the B.C. Research Council and the International Development Research Council of Canada, was formerly a member of the National Research Council and the Science Council of Canada.

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Prof. Marvin Tung of the Department of Food Science was the recipient of the W.J. Eva Award for his research accomplishments at recent meetings of the Canadian Institute of Food Science and Technology in Toronto.

Dr. Keith Brimacombe of the Department of Metallurgical Engineering and former UBC graduate student **Dr. Eiichi Takeuchi** have been awarded the 1985 Henry Howe Medal of the American Society of Metals for a paper entitled "The Formation of Oscillation Marks in the Continuous Casting of Steel Slabs."

The paper was based on research done by Dr. Takeuchi while he was a Ph.D student at UBC under the supervision of Dr. Brimacombe. Dr. Takeuchi, who received his degree last year, has now returned to Japan where he works in the research laboratories of Nippon Steel.

The Howe Medal memorializes a distinguished teacher, writer, metallurgist and consultant and has been awarded since 1922. The award is made annually to the authors of a paper selected as the best of those published in a specific volume of *Metallurgical Transactions*.

Dr. Brimacombe will receive the medal at the society's annual awards dinner in Toronto in October.

The award to Dr. Brimacombe makes him a two-time winner of the Howe Medal. He first received it in 1980 for research carried out with departmental colleagues **Prof. Fred Weinberg** and **Dr. Bruce Hawbolt**.

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Patrick Buchannon has been appointed assistant director of Student Housing at UBC. Since 1976 he has served as senior residence advisor and coordinator of residence programs. This year he is also president of the Northwest Association of College and University Housing Officers—an association which brings together professional housing staff from B.C., Alberta, Alaska, Hawaii, Oregon and Washington.

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Prof. Ken Craig of UBC's Department of Psychology has been elected president of the Canadian Psychological Association. Dr. Craig has served on the board of directors of the CPA and has been chairman of its Professional Affairs Committee, Publications Committee, Ethics Committee and Accreditation Panel for Graduate Programs and Internships in Clinical Psychology. He is a past president of the B.C. Psychological Association.

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Dr. John M. Gosline of UBC's zoology department has been elected a fellow of the American Association for the Advancement of Science. AAAS is the leading general scientific organization in the U.S. with 136,000 members.

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Dr. Basil Roufogalis of UBC's Faculty of Pharmaceutical Sciences has been chosen as the winner of the 1985 McNeil Award. The award, which recognizes excellence in pharmaceutical research, is the highest research award made in the field of academic pharmacy in Canada.

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Dr. V.J. Modi, a professor in the mechanical engineering department, has been named a Fellow of the American Society of Mechanical Engineers (ASME). The rank of fellow is conferred upon a member who has had at least 10 years active engineering practice and who has made significant contributions to the field of engineering.

Students in UBC's School of Architecture recently received three out of five awards presented in a national competition sponsored by the Aluminum Company of Canada and the Royal Architectural Institute of Canada. The competition was for the design of a waterfront pavilion representing Canada at a world exposition. The UBC winners are **Philip Gowland** (first prize), **Christopher Vadja** (third prize), and **Elizabeth Shotton** (honorable mention).

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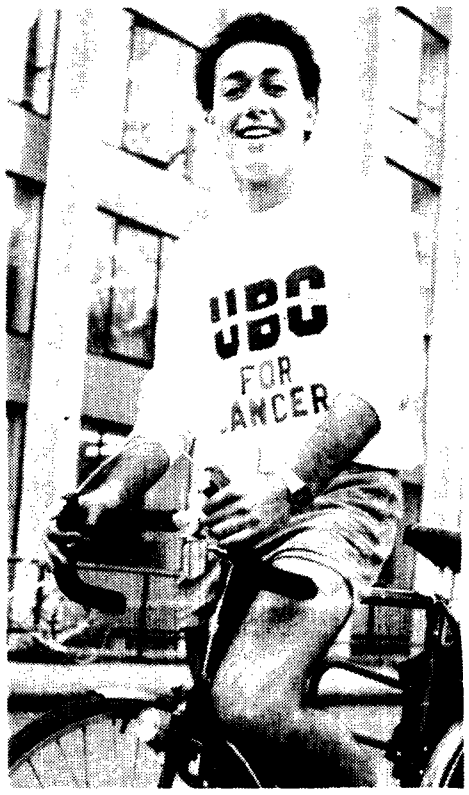
Maggie Brady, a graduate of UBC's Faculty of Law and until recently the director of the Real Estate Division in the Faculty of Commerce and Business Administration, is one of four English-speaking candidates to receive a Fellowship in Legislative Drafting issued by the Department of Justice. The fellowship, worth a total of $10,250 plus one year's tuition, will allow Ms. Brady to complete graduate work at the University of Ottawa in the 1985-86 academic year.



Aymen Nader

Third-year UBC philosophy student **Aymen Nader** arrived in Montreal safe and sound on June 4, 41 days after setting out on a cross-country bicycle trip to raise funds for cancer patient care services.

Nader, whose 4,850-kilometre bike trip began on April 25 at the Student Union Building on campus, undertook his journey with the blessing of the B.C. and Yukon Division of the Canadian Cancer Society.

The society is still open to contributions in recognition of Nader's journey. Contributors, who will receive receipts for tax purposes, should send cheques to the society's headquarters at 955 West Broadway, Vancouver, V5Z 3X8. Please note on your cheque that the contribution is for the "21 Vancouver to Montreal" special event.

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Prof. James V. Zidek, head of the Department of Statistics, has been appointed to Statistics Canada's eight-member Advisory Committee on Statistical Methods. The committee will advise and consult on methodological issues arising in Statistics Canada's programs. The committee's recommendations take the form of advice to the chief statistician, and the committee should play a critical role in ensuring the development and utilization of efficient statistical methods within Statistics Canada's programs.

Joint project studies Peace fur trade

A joint University of B.C.-Simon Fraser University research team has been awarded a $300,000 grant by the provincial Heritage Trust for a three-year study of the early fur trade in the Peace River area of northeastern B.C.

The project will involve archeological excavations near the Peace River city of Fort St. John, where an SFU team headed by Dr. K.R. Fladmark will excavate the site of Rocky Mountain Fort, the oldest fur-trade establishment on the B.C. Mainland.

The fort, operated by the Northwest Company, may have been built in 1794 by John Finlay, after whom the northerly branch of the Peace River is named. It continued in operation until at least 1804.

Other aspects of the project will be carried out by UBC historian Dr. Arthur J. "Skip" Ray and Dr. Charles Bishop, a former visiting professor at SFU who now teaches in the eastern U.S. and an expert in the field of ethnology, the branch of anthropology that deals with cultural groups of people, including their origin, distribution and characteristics.

Dr. Ray will undertake detailed investigations of national and regional archives as well as those of the Hudson's Bay Company with a view to delineating the essential characteristics of native Indian culture in the Peace River area at that time as well as building up a similar picture of the European fur trade.

Dr. Ray says the three-year project being funded by the Heritage Trust is the first phase of a long-term research commitment to the fur-trade history and archeology of interior B.C.

Arthur "Skip" Ray

"The early economic development of B.C. was dominated by the fur trade," Dr. Ray said. "Most of the attention has been focussed on the maritime fur trade, which largely ended in the 1820s, and there are only relatively brief accounts of the land-based trade."

He said there are no studies of the fur trade of eastern or interior B.C. comparable to those that have been done for Quebec, Ontario, the prairies and the Northwest Territories.

The expansion of the fur-trading empires of the Northwest and Hudson's Bay companies into New Caledonia, the name by which B.C.'s interior was known in those days, presented challenges to the European fur traders. "They had been operating on the prairies between the Rocky Mountains and Hudson's Bay and were faced with a whole set of physical and cultural challenges when they expanded westward," Dr. Ray said.

As a result of the neglect of this aspect of B.C.'s history, "we know relatively little about the process of adaptation that took place and enabled the European companies to come to grips with the local environment," Dr. Ray added. "And it follows that we know little about the ways in which the interior and eastern B.C. fur trade differed from that of the coast and the western interior of Canada."

It's also important, he said, to determine what impact the fur trade had on the socioeconomic system of the native peoples of the northern interior.

"A project of this kind, combining archeological, historical and ethnohistorical data, is aimed at a better understanding of the land-based trade of B.C. and will make an important contribution to B.C., native and fur-trade history."

Contributing to the study will be artifacts found by an SFU archeological team at the site of a Northwest Company fort called St. John's, which is also close to the present-day Fort St. John.

Classification of the St. John's artifacts, excavated in 1975 and 1976, will be completed over the next year by SFU graduate student Elizabeth Bedard. The collection will then be turned over to the North Peace Historical Society, which plans to display them in a museum in Fort St. John.

Dr. Fladmark paid tribute to the members of the historical society, who he said had been "very co-operative" in assisting his work in the Peace River area. He also emphasized that the Rocky Mountain Fort excavations focus on a site exclusively occupied by Europeans and there were no plans to excavate sites which had been occupied by native Indians.

GRANT DEADLINES

Grant Application Deadlines: Sept. 1985

Faculty members wishing more information about the following research grants should consult the Research Services Grant Deadlines circular which is available in departmental and faculty offices. If further information is required, call 228-3652 (external grants) or 228-5583 (internal grants).

(Deadline Date in Parentheses)

- *Alberta Oil Sands Technology & Research Authority*
  -Research Contract (1)
- *Alcoholic Beverage Medical Research Fdn.*
  -Research (1)
- *American Council of Learned Societies*
  -Fellowships (30)
- *B.C. Medical Services Foundation (BCMSF)*
  -Research (23)
- *Canada Council: Aid to Artists*
  -Aid to Artists (15)
- *Canada Council: Explorations Prog.*
  -Explorations Grant (15)
- *Canada Mortgage & Housing Corp.*
  -Research Contract Type B (over $3500) (6)
- *Canadian Heart Foundation*
  -Cardiovascular Travelling Lectureships (15)
  -Grants in Aid of Research or Development (15)
  -Nursing Research Fellowship (15)
  -Research in Professional Education (15)
  -Teaching Fellowship (15)
  -Visiting Scientist Programme (15)
- *Canadian Intl. Development Agency (CIDA)*
  -Institutional Development Linkages (6)
- *Canola Council of Canada*
  -Canola Utilization Assistance Program (6)
- *Committee to Combat Huntington's Disease (U.S.)*
  -Research (30)
- *Cystic Fibrosis Foundation (U.S.)*
  -Clinical Fellowships (1)
  -Research (1)
  -Research Scholar Awards (1)
- *Hamber Foundation*
  -Foundation Grant (5)
- *Health Effects Institute (U.S.)*
  -Research (12)
- *Koerner, Leon & Thea Foundation*
  -Foundation Grants (15)
- *Korean Traders Scholarship Fdn.*
  -Development of Korean Studies (30)
- *March of Dimes Birth Defects Fdn. (U.S.)*
  -Research (1)
  -Social and Behavioral Sciences Research Program (1)
- *MRC: Grants Program*
  -MRC Group (1)
  -Program Grants (1)
- *MRC: Special Programs*
  -Symposia & Workshops (1)
- *North Atlantic Treaty Organization*
  -Advanced Research Workshops Programme (15)
  -Advanced Study Institutes (ASI) (15)
- *Puritan-Bennett Foundation*
  -Parker Fellowship in Pulmonary Research (15)
- *Royal College of Physicians and Surgeons*
  -H.K. Detweiler Travel Fellowships (30)
- *Secretary of State*
  -Canadian Ethnic Studies Conferences (15)
  -Canadian Ethnic Studies Program: Professorships (15)
  -Ethnic Research (15)
- *Shastri Indo-Canadian Institute*
  -Research, study & language training in India (10)
- *Sloan, Alfred P. Foundation (U.S.)*
  -Sloan Research Fellowships (15)
- *University of British Columbia*
  -UBC-SPCA Animal Alternatives Committee (19)
  -UBC-SSHRC Grants to New Faculty (HSS) (27)
- *World University Services*
  -Awards to Foreign Nationals: Fellowships (30)

The Office of Research Services has a booklet listing granting agencies which offer salary supplement or training awards for faculty. Although these granting agencies have deadlines throughout the year, this has been brought up now to give advance warning of the major deadlines which are in October and November.

For further information, see your department head, who has been sent this booklet, or phone local 5584 for a copy.

Faculty Fellowships for Leave of Absence or Further Training Awards:

- Alzheimer's & Related Disorders Assoc.
  -R.M. Parsons Fdn. Research Grants
- American Council of Learned Societies
  -Fellowships
  -Mellon Fellowships for Chinese Studies
- American Lung Association
  -Trudeau Scholar Awards
- Arthritis Society
  -Associateships & Assistantships
  -Fellowships
- Association of Commonwealth Universities
  -Administrative Travelling Fellowships
  -Commonwealth Medical Fellowships
  -Staffing Assistance to Developing Universities
- Atlantic Salmon Federation
  -Bensinger-Liddell Salmon Fellowship
  -Olin Fellowships
- AUCC: International Relations
  -Canadian Studies Visiting Prof. in Japan
- B.C. Health Care Research Fdn.
  -Research Scholar Award
- B.C. Heart Foundation
  -Clinical Fellowship in Cardiovascular Disease
- B.C. Min. of Univers., Science & Communic.
  -China Professorial Exchange Program
- Baker, E.A. Fdn. for Prevention of Blindness
  -Fellowship
- Canada Council: Killam Program
  -Killam Research Fellowship
- Canada Israel Fdn. Academic Exchange
  -Canadian Studies Program at Hebrew University
- Canadian Cystic Fibrosis Fdn.
  -Fellowships for Training and Research
  -Scholarship
- Canadian Heart Foundation
  -Awards to Individuals
  -Stroke Research Fellowship
  -Teaching Fellowship
  -Visiting Scientist Programme
- Canadian Life & Health Insurance Assoc. Inc.
  -Medical Scholarships
- Canadian Liver Foundation
  -Fellowship Program
  -Scholarship
- Canadian Lung Association
  -Fellowship
- Cattell, James McKeen Fund
  -James McKeen Cattell Sabbatical Award
- Committee to Combat Huntington's Disease (U.S.)
  -Research Fellowship
- Cystic Fibrosis Foundation (U.S.)
  -Clinical Fellowships
  -Research Scholar Awards
- Diabetes Canada
  -Research Scholarship
- French Ministry of External Affairs
  -Post-doctoral
- Grant (William T.) Foundation
  -Faculty Program in Mental Health of Children (one-time grants)
- Guggenheim (Harry Frank) Foundation
  -Career Development Awards
- Guggenheim Memorial Foundation
  -Guggenheim Fellowships
- Health & Welfare Canada: NHRDP Awards
  -National Health Research Scholars
  -National Health Scientists
  -Visiting National Health Scientist Awards
- Health & Welfare Canada: Welfare
  -National Welfare: Senior Research Fellowship
- International Agency for Research on Cancer
  -Fellowships for Research Training in Cancer Visiting Scientist Award
- International Union Against Cancer
  -Eleanor Roosevelt Cancer Fellowships
  -International Fellowships
- Japan Foundation
  -Fellowship Programs

Continued on Page 4
See GRANT DEADLINES

UBC CALENDAR

Calendar Deadlines

Notices for the weeks of Sept. 15 and 22 must be submitted no later than 5 p.m. on Sept. 5 to the Community Relations Office, Room 207, Old Administration Building, 6328 Memorial Road. Notices must be submitted on proper Calendar forms. For more information, call 228-3131.

FRIDAY, AUG. 16

Early Music Festival

Early music from Italy, featuring soprano Suzie LeBlanc and tenor Bruce Pullan, and faculty members of the Early Music and Dance Workshop in a program of medieval, renaissance and baroque music. Tickets at $9 (students and seniors $6) available at the UBC Music Building, Recital Hall, Music Building, 8:00 p.m.

WEDNESDAY, AUG. 28

Women Coping with Campus.

A one-session program for women planning to enter UBC this fall after a break of five or more years in their education is presented by the Office for Women Students. The program is free, but pre-registration is required. Register at Brock 203. Enquiries: 228-2415. Room 223, Brock Hall (Women Students' Lounge). 9 a.m. to 3 p.m.

MONDAY, SEPT. 2

Labour Day, University closed.

SATURDAY, SEPT. 7

Football.

UBC Thunderbirds home opener against the University of Saskatchewan. Thunderbird Stadium. 7:30 p.m.

NOTICES . . .

Community Sports Program

There is still room in many of the summer sports programs for children and adults held at UBC. Keep active and have a fun summer! For further information call the community sports office at 228-3688.

Volunteers Wanted

Mothers of children between the ages of 3 and 8 are required for a research project with the Department of Psychology. The project involves evaluating a program that teaches parenting skills. Approximately 60 minutes are required and $5 will be paid for participation. For additional information, contact Susan Cross, 321-4346.

International House

International House needs volunteers for incoming international students to UBC. Volunteers are needed to provide 3-4 nights temporary accommodation after arrival, drive students from the airport, and/or to attend the reception booth at the airport (Aug. 12—Sept. 9). If you can help, please contact Juanita Darmono at International House, 228-5021.

Summer Field Trip

Aug. 21-25, 1985. Exploring Johnstone Strait: Michael Bigg, marine mammalogist, and Peter Macnair, anthropologist. Fee: $485. For further information, please call the UBC Centre for Continuing Education at 222-5207.

Guided Walking Tours

UBC offers free guided walking tours of the campus at 10 a.m. and 1:30 p.m. Monday through Friday until the end of August. Self-guided walking tour packages are also available. For more information, call the Community Relations Office at 228-3131.

TRIUMF Tours

The TRIUMF cyclotron facility offers free tours at 11 a.m. and 2 p.m. weekdays throughout the summer. For more information, call 222-1047.

Dairy Barn Tours

Free tours of UBC's Dairy Barn, a modern centre for dairy cattle teaching and research, are offered six times a day Monday through Friday until the end of August. To book a tour, call 228-4593.

Olde English Teas

Afternoon teas are offered every Sunday afternoon from 1 to 5 p.m. at Cecil Green Park, a turn-of-the-century mansion overlooking Georgia Strait. Reservations (228-2018) are recommended.

Museum of Anthropology

The Museum of Anthropology is open from 11 a.m. to 5 p.m. Wednesday through Sunday, 11 a.m. to 9 p.m. on Tuesdays, closed Mondays. Admission is free on Tuesdays. For details on museum activities, call 228-5087. Two new 20-minute programs on the traditional uses of cedar are presented hourly from 1 to 4 p.m. Wednesday through Friday and on Sunday until the end of August.

Food Services

The following outlets are closed and will reopen on Sept. 3: IRC Snackbar and Yum Yum's (Old Auditorium). The following units will reopen Sept. 9: Arts 200, Edibles (Education Building) and the Ponderosa. The Barn and the Bus Stop outlets remain open Monday to Friday. The SUBway in the Student Union Building is open seven days a week (closed Aug. 31, Sept. 1, 2, 7 and 8). SUBway will be open 6 days a week from Sept. 9 (closed Sunday).

Tinnitus Research

Research is being conducted in the Department of Psychology into psychological factors associated with aspects of tinnitus (ringing or buzzing in the ears). If you would like to participate in one research session on campus, please call Les Leader at 224-2551.

Graduate Student Centre

The Garden Room Lounge is open Monday to Friday, 4:30 to 11:30 p.m. Full bar service and snacks. Special nights with special prices: Mondays, Wednesdays and Fridays from 4.30 to 8 p.m. Graduate students, faculty, staff, guests and visitors welcome.

Asian Centre Exhibitions

Aug. 2-15—Paintings by Xu Min, Australian Association of Chinese Artists. 11:30-5:30 p.m. daily.
Aug. 16-25—Works by Huang BinHong (1864-1955). 12-6 p.m. daily.
Aug. 29-Sept. 13—Traditional Chinese watercolors by Daih Bei-juhn. 12-8 p.m. daily.

Botanical Garden Hours

The Nitobe Japanese Garden, located adjacent to the Asian Centre, is open daily from 10 a.m. to 6 p.m. The Main Garden, located on Stadium Road, is open daily from 10 a.m. to dusk with free admission.

Bookstore

Annual sidwalk book sale continues until the end of August, 10:00 a.m. to 3:00 p.m. rain or shine. Annual clearance sale continues until Aug. 23. Up to 50 percent off on stationery and poster art items, sports and swim wear, and electronic items.

Ballet UBC Jazz

Club is offering unique T-shirts in two logos for $12 each. On sale Aug. 15, 16, 22 and 23 from 1:00 to 3:00 p.m. in Room 216E, Student Union Building.

Tillicum Daycare

Tillicum Daycare, UBC campus, has immediate openings for three- and four-year olds for full-time daycare. Tillicum is non-profit, parent-run with professional staff. For information, contact admissions parent, 266-5071.

UBC library ranks high in survey

UBC is in the big leagues in North America when it comes to the size and scope of its library holdings.

UBC ranks 18th overall in a listing of 105 North American university libraries in terms of research holdings in 1983-84, according to a table compiled by the Association of Research Libraries and published in the May 15th edition of the *Chronicle of Higher Education*.

The ranking of university research libraries is based on an index developed by the Association of Research Libraries for quantitative purposes. The index takes into account volumes held; gross number of volumes added; microforms held; current serials received; expenditures for library materials, binding, salaries and wages, other operating costs; and number of professional and non-professional staff members.

Only one other Canadian university, Toronto, ranks ahead of UBC in the listing. Toronto's overall rank is 8th. Other major U.S. institutions that rank ahead of UBC include Harvard, which is first in the overall ranking, the University of California at Los Angeles and Berkeley, Yale, Stanford, Columbia, and Princeton. The University of Washington in Seattle ranks 13th in the overall listing.

Ten other Canadian universities are ranked in the ARL listing. The University of Alberta ranks 27th, McGill and Western Ontario rank 53rd and 54th, York is 63rd, Manitoba is 81st, Queen's, McMaster and Waterloo are grouped together as 88th, 89th and 92nd in the overall ranking, and Saskatchewan and Guelph are back to back in the 99th and 100th positions.

None of the universities, however, come remotely close to the holdings of the Library of Congress in Washington, D.C., which boasts just over 20.1 million volumes and spends $139 million on salaries.

By comparison, first-ranked Harvard has just over 10.7 million volumes and spends nearly $15 million on salaries. UBC's book total is just over 2.35 million, with salary expenditures of just over $8.3 million in terms of U.S. funds.

Info night for part-timers set

An Advisors' and Admissions Night for those interested in attending UBC on a part-time basis takes place on Thursday, Aug. 29 from 6 to 8 p.m. in the lounge area of the Scarfe (Education) Building.

Students who wish to attend UBC will receive counselling about admission requirements, registration procedures and career planning as well as information on UBC support services.

Students new to UBC must bring all secondary and post-secondary school transcripts if they wish to apply to the University at the meeting. Returning students will also be able to register.

For more information, call the Office of Extra-Sessional Studies at 228-2657.

GRANT DEADLINES
Continued from Page 3

- Japan Society for the Promotion of Science
  -JSPS Fellowship for Research in Japan
- Juvenile Diabetes Fdn. (U.S.)
  -Career Development Award
- Lady Davis Fellowship Trust
  -Fellowships
  -Visiting Professorships
- Lalor Foundation
  -Fellowship
- Matsumae International Fnd.
  -Matsumae Fellowship
- MRC: Awards Program
  -Centennial Fellowship
  -MRC Scholarship
  -MRC Scientist Award
- MRC: Special Programs
  -Queen Elizabeth II Scientist Awards
- National Cancer Institute of Canada
  -Career Award Appointments
- National Multiple Sclerosis Soc. (U.S.)
  -Junior Faculty Awards
- New Zealand Natl. Research Adv. Council
  — Senior and Postdoctoral Fellowships
- North Atlantic Treaty Organization (Roy. Soc.)
  — Research Fellowship
- NSERC: Fellowships Division
  — E.W.R. Steacie Memorial Fellowships
  — Senior Industrial Fellowships
- Osgoode Society
  — Fellowship in Canadian Legal History
- Rhodes University
  — Hugh Kelly Fellowship
  — Hugh Le May Fellowship
- Rockefeller Foundation
  — Fellowships in International Relations
- Royal Society of New Zealand
  — Captain James Cook Fellowship
- Secretary of State c/o S.S.H.R.C.
  — Bora Laskin Fellowship in Human Rights
- Shastri Indo-Canadian Institute
  — Research, study & language training in India
- Sloan, Alfred P. Foundation (US)
  — Sloan Research Fellowships
- SSHRC: Fellowships Division
  — Jules & Gabrielle Leger Fellowship
  — Leave Fellowship
- SSHRC: Strategic Grants Division
  — Management Science: Doctoral Completion
  — Population Aging: Reorientation Grants
  — Population Aging: Visiting Scholars
- St. Hilda's College
  — McIlrath Junior Research Fellowship
- St. John's College
  — Commonwealth Fellowship
- Stanford Humanities Centre
  — Marta Sutton Weeks Fellowships
- University of British Columbia
  — UBC: Killam Senior Fellowship
- University of Cambridge
  — Visiting Fellowship in Commonwealth Studies
- Von Humboldt Fdn. (W. Germany)
  — Research Fellowship
- Wang Inst. of Graduate Studies
  — Fellowships in Chinese Studies
- Weizmann Inst. of Science
  — Charles H. Revson Career Development Chairs
  — Joseph Meyerhoff Fellowship

FIRST CLASS MAIL

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The Librarian,
Special Collections Division,
Main Library,
CAMPUS

1