

## Grants for superconductors

Research on superconductors at UBC has attracted a \$124,000 grant from the Natural Sciences and Engineering Research Council of Canada. The council awarded a total of \$200,000 to UBC and McMaster University as interim funding for projects involving superconductor materials. Superconductors carry electricity at very low temperatures with almost no loss of energy. The urgency in current research follows a recent discovery of superconductivity in materials at a much higher temperature than was thought possible. The NSERC grant will fund researchers in the departments of Physics, Metals and Materials Engineering and at TRIUMF. The Science Council of British Columbia has also stepped in with funds to maintain research continuity while research teams apply for major grants. It has established an emergency fund of \$50,000 for B.C. researchers and is encouraging co-operation among the groups involved in this field.

## Needs of disabled

The President's Committee on the Disabled is officially established. Committee members are: Cheryl Brown, Counselling and Resources Centre; Lee Grenon, fourth-year sociology student and head of the Disabled Students Association; Dr. Charles Laszlo, head of Clinical Engineering; Dr. Charles McDowell, Chemistry; Paul Thiele, Crane Library; and Lila Quastel, Rehabilitation Medicine. Dr. Perry Leslie, Special Education will chair the committee. "We'll be looking at the needs of disabled people at UBC, both academic and social concerns. Generally, the committee wants to ensure the campus provides equal access for students, staff, faculty and visitors to all facilities and services, including academic offerings. For hearing-impaired or visually-impaired students, for example, that means access to lecture material," Leslie says. One area the committee will study is physical access to campus buildings. Leslie says a summer grant is currently funding two students to update an access study done several years ago. The committee will also investigate disabled access at other universities across Canada. All recommendations affecting the academic programs will be referred to the appropriate departmental, faculty and university committees. "We welcome submissions from members of the university community who want to bring individual items to our attention," Leslie says. Interested individuals may contact any of the committee members.

## Chernobyl follow-up

Dr. Terence Anderson, head of the Dept. of Health Care and Epidemiology, currently on sabbatical, has returned from Vienna where he served as the Canadian delegate to an international meeting on Chernobyl called to assist the Russians in establishing a long-term follow-up to the nuclear accident. The meeting, sponsored by the United Nations, involved 20 scientists from 10 countries including the U.S. and Japan. Anderson said the Russians looked to western nations for assistance because doctors in the West are knowledgeable in the long-term epidemiology of cancer. He said North Americans, Britons and Scandinavians have done large human studies on the effects of such things as smoking and occupational diseases whereas epidemiology to the Russians is still more concerned with infectious diseases. Anderson said the meeting assisted the Russians in designing the best approach to follow up over the next 20 or 30 years on the health of the 100,000 people most affected by the accident. They will study, for example, how children and pregnant women were affected by the radioactivity. "It was encouraging to see the co-operation in the face of environmental problems that affect mankind as a whole," Anderson said.

## Research forest tours

UBC's 5,150-hectare Research Forest in Maple Ridge offers free guided tours every Sunday and holiday Monday throughout the summer. The two-hour tours start at 2 p.m. and are led by a registered professional forester. Groups of 20 or more can arrange for free tours Wednesday to Friday between 8 a.m. and 4 p.m. The cost for weekday tours for groups of less than 20 is \$1 per person. If you'd like to explore on your own, the forest is open from dawn till dusk every day. Wheelchair trails are marked. The Research Forest is less than 90 minutes from Vancouver. To book a tour, or for directions, call 463-8148.



Involved in preparation for the upcoming meetings of the International Union of Geodesy and Geophysics are: (front row) Jafar Arkani-Hamed, Prof. Richard Chase; (centre row) assembly program co-ordinator Prof. Richard Lee Armstrong, Debra Varley, Sandra Lieuful, Alison Jones; (back row) Alison Hart and assembly chairman Prof. R. Don Russell.

## 4,000 scientists to meet here for earth sciences conference

by Lorie Chortyk

Four thousand scientists from more than 100 countries will gather at UBC Aug. 9 to 22 for the 19th General Assembly of the International Union of Geodesy and Geophysics. The assembly is one of the largest gatherings of earth scientists held in the world.

Participants will present the latest research findings in areas such as pollution control, earthquakes, mineral resources, weather forecasting, climate change, water quality, measurement of continental drift, and the discovery of new bodies in the solar system.

Prof. Richard Lee Armstrong of UBC's Geological Sciences Department is coordinating the program for the conference.

"Scientists from a wide range of fields, including planetology, geophysics, geology, chemistry, geography, oceanography, soil science and civil engineering, will be attending the assembly," says Armstrong. "The issues being discussed—such as how the thinning of the ozone layer affects agricultural resources, or how to predict and control natural disasters—cross over many disciplines."

Many of the papers being presented at the conference focus on issues of particular importance to Canadians, such as the exploration for minerals off the coast of Vancouver Island, water resources for the forest industry, and the geography of Arctic regions.

The last IUGG conference hosted by Canada was held in Toronto in 1957, a meeting which coincided with the launching of the first artificial earth satellite, Sputnik. UBC President David Strangway, a well known geophysicist, will convene a symposium at the upcoming conference on advances in space exploration since Sputnik.

The seven associations which make up the IUGG are the International Association of Geodesy, the International Association of Seismology and Physics of the Earth's Interior, the International Association of Volcanology and Chemistry of the Earth's Interior, the International Association of Geomagnetism and Aeronomy, the International Association of Meteorology and Atmospheric Physics, the International Association of Hydrological Sciences and the International Association for the Physical Sciences of the Ocean.

The IUGG planning committee has also organized scientific and general interest tours of the Northwest for conference participants, including points of interest such as Mt. St. Helens and the Canadian Rockies.

Chairman of the 1987 assembly is Prof. R. Don Russell of UBC's Geophysics and Astronomy Department.

UBC will also be the site of a pre-assembly meeting Aug. 8 and 9 in UBC's Woodward Instructional Resources Centre to discuss the role of geophysicists in the International Geosphere--Biosphere Program, a billion-dollar project which will promote cross-discipline scientific research in the 1990s. The project, sponsored by the International Council of Scientific Unions, will bring researchers from every scientific field together to discuss issues of global importance.

## Universities look at economic role

The universities of British Columbia see themselves as key players in a push to establish what they call the "new economy".

In a report prepared at the request of Stanley Hagen, Minister of Advanced Education and Job Training, UBC, Simon Fraser and the University of Victoria emphasized the role of research and teaching in fuelling economic renewal in a world economy altered by technology.

The tri-university report recommends that British Columbia assume "worldwide perspectives in marketing", produce complex products for sophisticated consumers, and recognize the necessity for adding value to its products.

It says the universities contribute to the economy by preparing students and researchers for rapid technological change and strong foreign competition. The report was presented to the provincial cabinet by Hagen.

"Research activities of the universities have a major impact on the provincial economy. They generate more than 60 per cent of the research in the province," the report said.

The universities describe their resources, talent and facilities as "magnets for investment by industry." The report said universities attract more than \$100 million to the province annually in the form of research grants and contracts, and out-of-province students contribute at least \$20 million. Visitors from all parts of the world come to the universities for scholarly conferences and make significant contributions to revenue from tourism.

"Universities are directly responsible for an injection of at

See Economy Page Three

# Campus a town to explore with tour guide

When UBC tour guide Peig McTague takes visitors around the campus she tailors the trek to suit her audience. A group of high school juniors may begin the tour at the War Memorial Gym where they hope to see champion gymnast Lori Fung at work.

"But if I have older adults interested in gardening, we don't just visit the gardens, we treat the campus as a garden," says McTague, a third-year law student who works in the Community Relations Office.

Even a visit to the SUB video arcade is not out of line, although she says she doesn't usually mention video games until the end of the tour, and often checks first with the teacher.

It's all part of her philosophy of presenting the university campus as a town.

"I like to use the metaphor of the town with visitors because with 35,000 day students and 6,800 faculty and staff UBC is the size of a medium-sized town. I may even show them where the mayor's office is," she says, referring to the Old Administration Building where President David Strangway has his office.

If McTague has a restless group of young people she elicits attention with a reward—ice cream on the house for anyone who can stump her with a question about the campus, taken from the visitor's brochure.

She provides tours for school groups, tourists, community organizations, English as a Second Language groups, new employees and individuals.

McTague has initiated a number of enhancements to the campus tour program. She is working on special tours for seniors and disabled people, in keeping with her view of UBC as an accessible, friendly place for all to visit and learn. A tour brochure is being printed in several different languages; and

looking ahead to next summer, she is developing a "kid's treasure hunt" booklet which will fit into the social studies curriculum for use in B.C. schools. When students visit the university next year, they will use the booklet to seek out points of interest on campus.

## Book Ahead

Here are just some of the high spots included on a typical tour: health sciences facilities, sometimes with a sweep through the hospital; the Pulp and Paper Institute to demonstrate the UBC-industry connection; the Geology Museum where youngsters are sent on a treasure hunt to find the fluorescent gem; the Old Barn cafeteria where seniors like to take a break; the Main Library and the Chemistry buildings where their granite exteriors are reminders of Oxford and Cambridge; the Crane Library for visually impaired people with its talking books, and the Main Mall where McTague surprises visitors by telling them they are walking on the roof of the Sedgewick Library.

Tours are free and should be booked ahead of time by calling the Community Relations office at 228-3131. Morning tours which are two hours long begin at 10 and afternoon tours of one hour and 45 minutes begin at 1 and 3 p.m. Groups and individuals can be accommodated.

And just to prove that everyone who comes to UBC is a mover and a shaker McTague invariably takes visitors to the Geophysics and Astronomy building where the group jumps in unison to move the needle on the long-period seismograph.

"It's a do-it-yourself earthquake," she says.



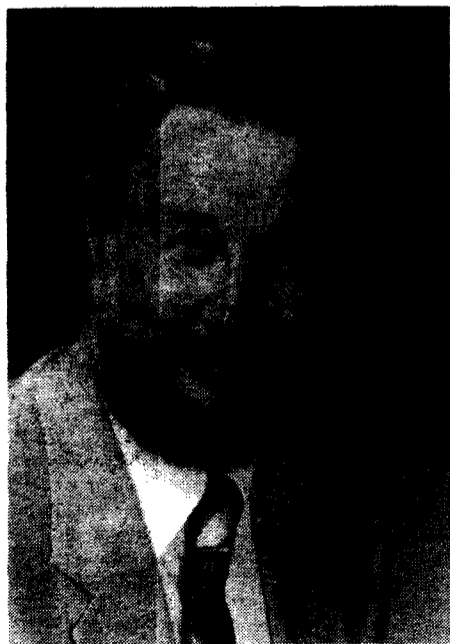
Tour guide Peig McTague gives visiting students a quick social studies lesson.

## People

### Director of purchasing named

Keith Rutland Bowler has recently been appointed director of purchasing for the university. Bowler joins UBC with a solid background in personnel management and information systems and 19 years experience in all aspects of purchasing policies, practices, material handling and scientific support operations from his former position at the University of Toronto.

A graduate of the Administrative and Management program at that university, he has served on the board of several professional organizations.



Keith Bowler

The Royal Society of Canada has awarded Economics professor Anthony Scott the Innis-Gerin medal for distinguished and sustained contributions to the literature of the social sciences. Scott is the first recipient from UBC and only the third economist to receive the medal in the 15 years it has been awarded.

Scott's research covers a variety of topics including federal fiscal arrangements, the 'brain drain', fisheries economics, water resources and property rights. The society cited him for "making lasting contributions to the study of resources and conservation".

Twenty-three future scientists and engineers at UBC have been awarded \$13,000 scholarships from the Science Council of British Columbia.

They are: Sharmin Gamlet, Soil Science; Benoit Girard, Food Science; Heather Ashton, Ruth McDougall, Animal Science; Peter Thompson, Oceanography; Mark Decamillis, Zoology; Ken Lertzman, Forestry; Mishtu Banerjee, Botany; Steven Dew, Angela Gallagher, Paul Kinahan, Physics; Walter Chicha, Ian Street, Chemistry; Allan Gibb, Civil Engineering; Martine Breault, Matt Perchanok, John Taylor, Mechanical Engineering; Anne-Marie Boudreau, Metallurgical Engineering; Christine Thlrd, Metals and Materials Engineering; Jantje Been, Chemical Engineering; Dave Fayegh, David Siu-Kau, Civil Engineering; Martin Lord, Electric Engineering.

Graduate Research, Engineering and Technology (GREAT) scholarships are awarded to 39 graduate students at the three B.C. universities and are designed to encourage them to carry out their thesis research in co-operation with an off-campus company, agency or research institute.

Dr. John S. Chase, director of budget, planning and systems management at UBC has received the Association for Institutional Research (AIR) Outstanding Achievement Award. The award is given annually to members of the U.S.-based professional association who "have made extraordinary and sustained contributions to the association." Chase has served the organization for more than 10 years.

AIR is an association of some 20,000 professionals who work in the areas of management research, policy analysis and planning in post-secondary institutions, agencies and organizations. Its executive offices are located at Florida State University, Tallahassee.

### Memorial Fund

A memorial fund has been established in the name of Kenneth Gordon Young, registrar and secretary of Senate at UBC who died May 2. Donations may be sent to: The K.G. Young Memorial Fund, c/o Dept. of Financial Services, UBC, Room 60 General Services Administration Bldg., 305 Westbrook Mall, Vancouver, B.C., V6T 1Z4.

## Letters

Fairness is everyone's business. Students should take an interest in the salary dispute between UBC faculty and administration, both because low faculty morale affects our education and because, according to the Faculty Association's Brief on Salaries and Economic Benefits, significant salary increases are "necessary as a matter of fairness. . ."

What is a fair level of pay for academics? What justifies average salaries above \$50,000 for academics when the average full-time worker in Canada earns barely half that much?

Four main reasons have been suggested: academics should be compensated for lost earnings during their lengthy period of study; their job is unusually demanding; their income should be comparable to that of other professionals; and UBC salaries must be at a competitive level with comparable institutions to retain and recruit talented faculty.

Let us calmly consider these reasons. Should academics be compensated for lost earnings during student years? It is often argued that their lifetime earnings should not fall below those of skilled tradespeople, but this argument is really quite weak. It presupposes that time invested in advanced education must pay off in monetary terms when it already pays off in terms of social prestige and personal fulfillment, and when graduate student life is itself an immensely privileged life. Insofar as graduate students are poverty-stricken, money is surely better spent alleviating this poverty than compensating academics for it.

Are academic jobs unusually demanding? Fierce competition at junior levels has indeed made such jobs stressful, but the solution is obviously not to increase the competition by further increasing salaries. At the senior level, most academic jobs are probably less stressful than many other occupations because they involve fairly routine teaching and research, few structured duties during the summer months and the option of regular sabbaticals.

Should academics have comparable incomes to doctors and lawyers? While admitting that academics are equally worthy professionals, we must nevertheless ask whether the enormous incomes of many doctors and lawyers are socially justified as a necessary incentive for people to enter these professions, or whether they are the unfair outcome of restrictions on admission and political lobbying by powerful professional associations. If the second, then the fact that doctors and lawyers have extorted unfair incomes from society is clearly no reason for letting academics get away with it as well.

Finally must faculty salaries at UBC be competitive with comparable institutions? Here we must insist on a sharp conceptual distinction between fairness and prudence. It may be required by prudence, although not by fairness, to pay competitive salaries. Reputation-hungry universities bid against each other (and sometimes against industry) for the most promising or distinguished researchers, and less distinguished academics have benefited from that. These realities of the

academic marketplace make it prudent to pay highly mobile professors—probably a minority—higher salaries on the basis of special merit.

The bargaining position of the Faculty Association seems muddled at this point. On the one hand, its strongest rationale for salary increases is to "retain and recruit" talented faculty; on the other, it criticizes the administration for recruiting new faculty. By far its most irresponsible proposal is to leave unfilled (most?) positions that become vacant through normal retirements and resignations, and to reallocate the savings as salary increases.

It is incredibly unfair and pernicious to suggest that the university could have saved over \$20 million in the past four years through a hiring freeze. Pernicious because in many departments, especially those plagued by stagnation, new faculty is desperately needed to fill gaps in expertise left by departing faculty. Incredibly unfair because established faculty increase their already ample incomes at the expense of denying aspiring faculty a foothold in academia.

Academics tend to reap an enviable triple benefit: ample salaries and self-fulfillment in a challenging social role, along with absolute job security. In every comparative study of intrinsic job satisfaction or social prestige they rank at or near the top of the list. If the academic labor market were governed by supply and demand—rather than by a well-organized monopoly of tenure holders who drive a hard bargain—average salaries in most disciplines would be considerably lower than \$50,000. When UBC faculty members are "bitter and frustrated" about the administration's unwillingness to increase salaries by more than 4 per cent, their complaints are sadly symptomatic of the loss of a wider social perspective which typically accompanies the isolation of the privileged.

Kurt Preinsperg  
Philosophy Graduate Student

Editor's Note: The above letter has been edited in the interest of space.

Thank you for your article in the June 11th edition about our Engineering Physics Project Lab.

Unfortunately, a few words slipped into the last paragraph, which give a wrong impression. It reads as if Moli Energy, Vortek, and TIR Systems started in the Engineering Physics design lab. Instead, these companies were direct spinoffs from the Physics Department. All three companies have recently given challenging problems to the design lab, and the three students in the photo in your article were actually working on a Moli project.

Boye Ahlborn  
Department of Physics



# Historical Atlas of Canada to debut this fall

by David Morton

Dr. Cole Harris is spreading maps over the tables in his Geography Building office. One shows a river mouth settlement in the Bay of Fundy, with the names of Acadian homesteaders who lived there in 1707. Another shows the distribution of Huron villages and trails near Georgian Bay in Southern Ontario between 1615 and 1650.

The maps are immaculately drawn and colored and teeming with fascinating detail. Harris explains the charts showing things like the deployment of Jesuit priests, soldiers and servants in the Lake Huron missions or schematic diagrams of the seasonal round of native economies. And spread judiciously around the maps are concise, 75 to 150-word descriptions of each of the illustrations.

The maps are proofs from the forthcoming Volume One of the Historical Atlas of Canada—a publishing event that will equal the release of Hurtig's Canadian Encyclopedia. Volume One will appear this September.

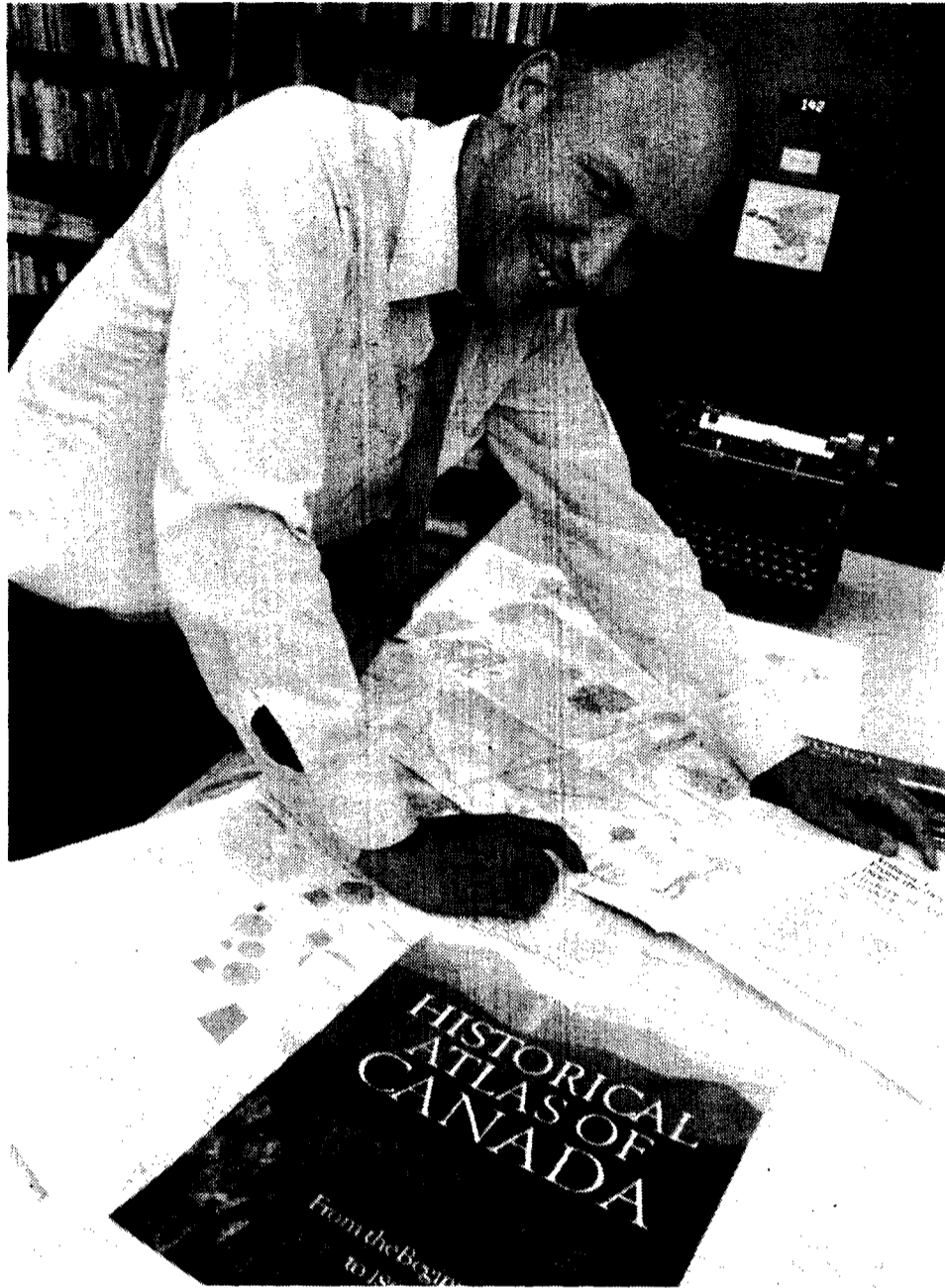
Eight years in the making, this volume, which covers the country's development from the end of the last ice age, some 12,000 years ago, to 1800, involved 60 authors from eight disciplines in many universities across Canada. There are 70 double-page plates and numerous original illustrations. It is being simultaneously published in English and French.

Volume Two of the Historical Atlas of Canada will deal with the 19th century and is expected to be completed in 1992-93. Volume Three, which will precede Volume Two, will cover the 20th century. It is expected to be published in 1989-90. The project is being funded by the Social Sciences and Humanities Research Council of Canada.

Cole Harris, of UBC's Geography Department, had the monumental task of editing Volume One. He has recently finished his work on the project and is anxiously awaiting the book's release.

"The volume represents a massive outpouring of new data. It is among the largest compilation of scholarly information on the historical development of Canada," he says.

Harris explains that the purpose was to produce a scholarly reference atlas that was, at the same time, accessible to the general public. The process of attracting contributions from the country's best scholars, co-ordinating the cartography (by University of Toronto cartographer Geoffrey Matthews) and producing a work that was accurate in detail and a persuasive interpretation of the evolution



Dr. Cole Harris and Volume One of the Historical Atlas of Canada.

of early Canada has taken up most of his time since the work began in 1979.

"We've had to be exceedingly careful in every detail," he says. "For instance, there

were many long distance telephone conversations about the spelling of French place names. Lac La Pluie is current Canadian usage, but Lac a la plule is correct modern

French. After much discussion, we settled on Lac La Pluie in the English edition and Lac a la plule in the French."

## Fantastic Work

But as Harris talks, it's obvious he wouldn't have traded his involvement in the project for the world.

"There was travel all the time—from one end of the country to the other. I'd drop into one city to meet with an author, and end up meeting someone else who was doing outstanding work that deserved a place in the atlas.

"There is a remarkable pool of scholarship across this country and the atlas could not have been produced without the total co-operation of this impressive group of authors.

"I was coming across new things all the time. As an editor, I had to play my hunches and keep the table of contents open as long as possible."

Much of the work in the atlas is original, according to Harris. For the first time, maps have been used to illustrate the evolution of primitive cultures into the native populations first encountered by Europeans. As well, a map has been created showing late Pleistocene glaciation that led to the formation of the continent. And Dr. Dale Kinkade of UBC's Linguistics Department has authored a remarkably detailed map of the distribution of languages and dialects in the northern cordillera in 1800.

What emerges from the atlas is that the country we know as Canada has evolved slowly out of 500 years of European involvement with North America. By 1800, many basic characteristics of Canada were in place. The Canada-U.S. border, Harris suggests, is not a geographical accident.

"The border as we know it is a tolerably accurate boundary between two different European experiences—a northern experience with staple trades and limited agricultural opportunities that became Canada, and a more southerly experience with a more bounteous land that became the United States.

"In many ways, an atlas is an appropriate medium to describe the early evolution of the country. An atlas can deal with problems like distance, regions and settlement in a way that a textual account cannot."

The Historical Atlas of Canada will be published in September. Pre-publication orders can be placed at the UBC Bookstore for \$85. After publication, the price is \$95.

UBC Photo Warren Schmidt

## B.C. physics students Canada's best

B.C. high school physics students came off with some spectacular results in Canadian competition, and as a result three of them will take part in the International Physics Olympiad in Jena, East Germany July 5 to 12.

Dr. Michael Crooks of UBC's Physics Department, coordinator of B.C. participation in the competition, said the students placed first, second and third on the five-person Canadian team. A fourth B.C. student who ranked sixth is an alternate.

"The results are spectacular," he said, "More than we hoped for. The high school level of physics appears to be excellent. The competition stimulates our best physics

students and encourages good physics teaching."

He said the competition, now in its second year, began in the fall when the province's 300 teachers of Grade 11 and 12 physics were contacted. A large number of students were interested in participating in the program which involved monthly tutorials and problem-solving involving "something a little more demanding" than normal course work. Students' work was marked once a month. In April, most wrote the Canadian Association of Physicists exam. Based on their monthly marks and the exam, 20 Grade 11 and 12 students were invited to UBC campus for a

weekend May 29 to 31. During that time, they had lectures and some lab experience before writing the three-hour national exam used to choose the Canadian team. When the results came in, B.C. physics students performed better than others in Canada.

The students who will spend a week at the Olympiad are: Greg Wellman of Richmond, a student at Sir Winston Churchill school; Karl Berggren of Coquitlam, St. George's School and Richard Kiss, Vernon Secondary School. Patrick Tang of Steveston Secondary in Richmond is a first alternate.

## Economy continued from Page One

least \$150 million annually into the British Columbia economy from out-of-province sources," the report said.

The report said the provincial economy must feature:

- Efficient, highly-productive and technologically-advanced resource-based industries.

- Sophisticated, internationally-oriented service industries, capitalizing on opportunities for tourism, trade and transportation.

- Diversification of business in high-technology, value-added manufacturing, cultural and knowledge-based industries, financial services, transportation and distribution.

- A highly-educated and adaptable human resource, a pool of talent.

"Growth in the economy and growth in employment are closely related to the level of education," the report said. It stated that the universities must collaborate with government, industry and labor to target development in the following areas:

- New fields of advanced education in

emerging areas such as micro-electronics, computer science, biotechnology, materials science and health sciences.

- Advanced education for the next generation of managers and entrepreneurs to lead the commercial thrusts of a new economy in the resource-based, service-oriented, and diversified industries of the future.

- Subject areas of particular economic and social significance to the province such as Pacific Rim studies.

- Graduate programs specializing in areas relevant to current economic growth.

- Maintenance of the highest standards of training for the various professions that are critical for the health, social services and economic development of the province.

- Expansion of co-operative advanced education programs with all industrial sectors.

- Expansion of continuing education and professional retraining, recognizing that 80 per cent of those who will be in the workforce in 2001 are already adults and half their training will be out of date within five years after graduation.



Dr. Michael Crooks

## UEL position outlined

While controversy over the future of the University Endowment Lands continues, President David Strangway stated UBC's position in the press and in a memo to faculty.

The president said the university supports the concept of a major park in the UEL, but he made it clear that the Board of Governors believes some land should be set aside for UBC. He pointed out that benefits to the university derived from the lands would benefit the community as a whole.

Strangway said that if UBC's proposal were adopted, 1,300 acres would be set aside for park, and a large portion of foreshore land would be reserved.

His proposal suggested that 287 acres be set aside to allow the university to generate a flow of income by a suitable residential development scheme. This would include faculty as well as other market housing.

"The university is itself a major resource to the people of the province and the income would be used for a wide variety of projects. Foremost among these at the present is the development of major capital facilities—new or replacement—on the campus. We have an aging physical plant that needs major renewal."

The president said the university would develop new facilities including a library, a concert/convocation hall, athletic facilities and research space.

"These needs," he said, "are all important to the university, but they also are important to the community as UBC develops...to better serve the people of the province. I need not tell you how important a steady source of endowment income will be to the university."

Since the present research park is nearly full, the university has also requested an additional 100 acres to provide for expansion.

# UBC Calendar

## SUNDAY, JULY 5

### Metis Music

The Museum of Anthropology presents award winning fiddler, Riel Aubishon, performing authentic Metis music. Free with Museum admission. For more information, call 228-5087. Great Hall, Museum of Anthropology.

## TUESDAY, JULY 7

### Chemistry Seminar

REMPE - PES of Molecular Chlorine. Professor C.A. de Lange, Department of Physical Chemistry, Free University, Amsterdam, The Netherlands. Chemistry Room 225. 2:30 p.m.

### Biochemical Discussion Group

N<sup>6</sup>-aminocytidine, a mutagenic nucleoside - mechanism and application. Dr. Hikoya Hayatsu, Faculty of Pharmaceutical Sciences, Okayama University. IRC3. 4 p.m.

## WEDNESDAY, JULY 8

### Theology Lecture

Vancouver School of Theology Summer Public Lecture Series. Evangelical Preaching: Malpractice or Mandate? Dr. Harrell Beck, Boston University of Theology. Chapel of the Epiphany, Van. School of Theology. 7:30 p.m.

## THURSDAY, JULY 9

### Medical Grand Rounds

Thyroid Hormone Resistance. Dr. David Thompson, Endocrinology and Internal Medicine, HSC. Room G-279, Lecture Theatre, Acute Care Unit, Health Sciences Centre Hospital. 12 noon.

### Music for Summer Evenings

John Loban, violin; Gene Ramsbottom, clarinet; and Melindar Coffey, piano. The opening concert features a piece originally composed for famous clarinetist Benny Goodman and violinist Josef Szigeti entitled Contrasts, by Bela Bartok. Romantic piano solos and Milhaud's Whimsical Trio complete the program. Free admission. Recital Hall, Music Building. 8:00 p.m.

## FRIDAY, JULY 10

### Obstetrical, Paediatric and Family Practice

Breastfeeding and the Role of the Physician. Maureen Minchin, Victoria, Australia. Room D308, Shaughnessy Hospital, 4500 Oak Street. For more information, call 875-2335. 8 a.m.

## MONDAY, JULY 13

### Theology Lecture

Vancouver School of Theology Summer Public Lecture Series. Political Theology in Canada: A Dialogue. Dr. William Crockett and Dr. Brian Fraser, Vancouver School of Theology. Chapel of the Epiphany, V.S.T. 7:30 p.m.

## WEDNESDAY, JULY 15

### Theology Lecture

Vancouver School of Theology Summer Public Lecture Series. The Birth of the New Testament. Dr. Etienne Trocmé, University of Strasbourg. Chapel of the Epiphany, V.S.T. 7:30 p.m.

### Friends of the Geological Museum

Dr. R. Allan Freeze will be presenting a program on Nuclear Waste Disposal. Dr. Freeze is a member of the Department of Geological Sciences and an internationally-known consultant. This presentation will include both technical and social aspects of waste disposal. All are welcome, but seating is limited and priority is given to members. Room 135, Geological Museum. 8:00 p.m.

## THURSDAY, JULY 16

### Medical Grand Rounds

Prostatic Carcinoma - Present Status. Dr. Kevin Murphy, St. Paul's Hospital. Room G-279, Lecture Theatre, Acute Care Unit, HSC. 12 noon.

### Music for a Summer Evening.

Kathleen Rudolph, flute; and Rita Costanzi, harp. Free admission. UBC Music Building. 8 p.m.

## NOTICES

### Exhibition of Tibetan Thangkas

Shambhala: An Enlightened Society by Noepud Rongae. Free admission. Opening reception: Wednesday July 1, 5 - 7 p.m. Special guest: Mynak Tulku, Director of the National Museum of Bhutan. Lecture presentations on Mondays and Fridays at 6 p.m. Co-sponsored by International Development Education through the Arts (IDEA) and the Institute of Asian Research, UBC. For more information, call 228-2748. July 2 - July 18. Asian Centre Auditorium. 2 p.m. - 7 p.m. daily.

### Library Tours

Tours of the Main Library daily July 6 - 10 at 10:30 a.m. and 12:45 p.m. Meet at the Main Library entrance. Tours last 45 minutes. All welcome.

### Graduate Student Centre Summer Hours

The Grad Centre Lounge is open Mon. - Thurs. 4:30 p.m. - 11:30 p.m. and Fri. from 4:30 p.m. - 1:00 a.m. The view is beautiful and the public are welcome. Lunch service begins July 8 in the Garden Room, 11:30 a.m. - 2:00 p.m.

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UBC Photo Warren Schmitz

High flying skateboarder is a Canadian amateur world champion performing at the recent International Council for Health, Physical Education and Recreation conference hosted by UBC's School of Physical Education and Recreation.

Special events include the Monday video nights in the Lounge (free of charge). Schedules are available at the Centre. Wednesdays we present live music in the Lounge and on Friday evenings recorded music and dancing. Every Friday at 4 p.m. come and visit the ever popular Beergarden in the Garden Room. For more information, call 228-3203.

### Recreation UBC Summer Hours

The Recreation UBC outdoor rental shop has full-time summer hours now through September 1. All types of outdoor equipment may be rented for reasonable prices. Open daily 7:30 a.m. - 3:30 p.m. except Sunday. Located in the dispensary of the War Memorial Gym. For more information, call 228-3515 or 228-3996.

### Research Participants Required

Participants between the ages of 18-25 who are employed full-time are required for a research project associated with the Department of Counselling Psychology. The project examines ways in which parents have attempted to influence young adults regarding their occupation, career, and life plan. Participants willing to complete a questionnaire requiring approximately 1-1/2 hours will be paid \$10 and \$20 for a two hour interview. For more information, call Dr. Richard Young or John Schneider at 228-8380.

### Decision Workshop

A group of interested faculty will meet weekly on Wednesday afternoons from 1:30 to 2:30 in Henry Angus Penthouse to discuss research issues related to important recent books in the general area of decision making and choice. The first book we will consider is *Ulysses and the Sirens: Studies in Rationality and Irrationality* and we will follow this with *Sour Grapes: Studies in the Subversion of Rationality*. Both books are authored by Jon Elster and are published by Cambridge University Press. Copies are on reserve in the Main Library. The first meeting will be on Wednesday, July 8 and we will focus on Chapter 1 of *Ulysses and the Sirens*. All interested faculty are welcome - just come or contact Ken MacCrimmon (224-8350) for more information.

### Forestry Presentation

Western Red Cedar - Does it Have a Future? Presentations include biology, ecology, marketing, economics, harvesting, growth modeling, anthropology, industrial health, wood properties and processing and sooth-saying! July 13 and 14. 8:30 a.m. - 5 p.m. Room 155, MacMillan Bldg. Sponsored by Faculty of Forestry. For more information, call 228-5889 or 228-2504.

### Chinese Brush Painting Exhibition

Sponsored by the Institute of Asian Research. "Visions" paintings by Margaret H. Chinn. Free admission. Demonstration on Sunday July 19 at 2 p.m. For more information, call 228-2748. Asian Centre Auditorium. July 18 - July 26. 10:30 a.m. - 5:30 p.m. daily.

### Museum of Anthropology Exhibitions

The Flute and The Sword. Exhibition featuring popular religious poster art which explores the passionate nature of two Hindu deities, Krishna and Kali. Until July 26.

The Third Eye. An exhibition featuring non-destructive scientific techniques used to yield information beyond the scope of normal methods of curatorial investigation. Until September 27.

The Literary Heritage of Hinduism. Exhibition of sacred Hindu texts discussing the significance of Spiritual Knowledge. Until November.

### Revised Calendar Deadlines

A reminder to the campus community that UBC Reports takes a holiday in August with only one issue published August 6. Deadlines for submission to UBC Calendar are altered. For events in the period July 19 to Aug. 8, notices must be submitted no later than 4 p.m. on Thursday July 9. For events in the period Aug. 9 to Sept. 12, notices must be submitted no later than 4 p.m. on Tuesday July 28. All submissions must be made on proper Calendar forms to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

Brock 200. For information, call 228-4347. For an appointment, call 228-3811.

### Botanical & Nitobe Memorial Gardens

The Botanical Garden and Nitobe Memorial Garden will be open daily 10 a.m. - 8 p.m. Free admission Wednesdays. For information, call 228-4208.

### Halda Houses Project

Northwest Coast artist, Norman Tait and a team of five carvers are turning a 29.5 ton, 20 metre-long log into a Nishga cargo canoe - the first of its kind in over 100 years. It will be paddled down the west coast to California, tracing the ancient abalone trading routes. For further information, call 228-5087. Halda Houses, Museum of Anthropology. Continues throughout the summer.

### Summer Sun, Fun and Fitness

UBC Leisure Pursuits Instructional Program. Outdoor aerobics, weather permitting, Monday to Friday 12 - 12:40 p.m. Call 228-3996 for location, or if you would like to see classes offered at other times. Aerobics to music - in UBC's newest weightroom, basement War Memorial Gym. Monday to Friday 1 - 1:40 p.m. Weightroom is open Monday to Thursday 12 - 7:45 p.m. and Friday 12 - 5:45 p.m. Expert and helpful supervision on location. \$2 drop-in charge for all activities, summer passes available. For more information, call 228-3996.

### English Conversation Class

English Conversation Class, with a variety of music, stories and films - all free! International House, Upper Lounge. For more information, call 228-5021. Monday evenings, 7:30 p.m.

### Language Exchange Program

This program is for those interested in learning foreign languages or in exchanging a foreign language for English. Call International House between 9 a.m. and 5 p.m. Monday - Friday at 228-5021.

### Golf Lessons

Get in the swing of things with UBC golf lessons. Lessons are held Monday and Wednesday evenings at various times. There are basic and intermediate levels. Small classes ensure personal attention. A video session helps you see the problems with your swing. Equipment is available at no extra charge. The cost is \$55. Tuition waivers welcome. For more information contact: Community Sport Services at 228-3688.

### Ice Hockey for Adults

UBC is offering adult ice hockey lessons this summer at beginner, intermediate and advanced levels. They run either Tuesday or Wednesday evenings starting mid-July. Cost is \$90 per six week session. Tuition waivers welcome. For more information contact Community Sport Services at 228-3688.

## GRANT DEADLINES

### AUGUST 1987

- \* Assoc. for Canadian Studies - Intercultural/Interregional Enrichment [31]
- \* Association of Commonwealth Universities - Staffing Assistance to Developing Universities [31]
- \* Australian Inst. of Nuclear Science and Eng. - AINSE Research Fellowship [31]
- \* Bell, Max, Foundation - Research [1]
- \* Canadian Inst. for Intl. Peace and Security - Research [15]
- \* Canadian Res. Inst. for Advancement of Women - Grants-in-Aid [31]
- \* CUSO - George Drew Commonwealth Travel Bursaries [31]
- \* Donner Canadian Foundation - Programme and Research [1]
- \* Epilepsy Foundation of America - Clinical Research Fellowships [30]
- \* European Molecular Biology Organization - EMBO Fellowships [15]
- \* Grant (William T.) Foundation - One-time Grants [1]
- \* Guggenheim (Harry Frank) Foundation - Career Development Awards [1]
- \* Grants for Research [1]
- \* Health and Welfare Canada: NHRDP AIDS Program - AIDS Research [17]
- \* Health Effects Institute (US) - Preliminary Research Applications [1]
- \* International Copper Research Association - Research Contract [15]
- \* March of Dimes Birth Defects Fdn. (US) - Clinical Research - Human Birth Defects [1]
- \* Social & Behavioral Sciences Research Program [1]
- \* McLaughlin, R. Samuel, Foundation - McLaughlin Fellowship in Medicine [15]
- \* Multiple Sclerosis Society, National U.S. - Research [1]
- \* New Zealand Natl. Research Adv. Council - Senior and Postdoctoral Fellowships [1]
- \* North Atlantic Treaty Organization - International Collaborative Research [15]
- \* Senior Scientist Programme [15]
- \* Runyon, Damon-Winchell, Walter, Cancer Fund - Clinical Scientists Fellowship [15]
- \* Postdoctoral Fellowship Grant [15]
- \* Spencer, Chris Foundation - Foundation Grants [31]
- \* Steel Structures Education Foundation - Research [31]
- \* Wildlife Habitat Canada - Research [1]
- \* Wolf Foundation (Israel) - Prize in Science and Arts [31]
- \* World Wildlife Fund (Canada) - General Research [1]