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UBC Thunderbird rowing crew, shown above on the water in Vancouver harbor just before leaving for a month-long tour of Great Britain, were a close second to the British Leander crew in the finals for the Grand Challenge Cup for eights at the Henley Royal Regatta last Friday (July 2). However, four members of the eight-oar crew captured the Steward's Challenge Cup with a one-third boat length

victory over the Thames Tradesmen in the fours-without-cox competition on Sunday (July 3). Left to right are Doug Mullins, Dinyar Marzban, Ken Rae, Paul Castner, Michael Moran, Jeffrey Allester, Fred Withers, John Bodnar and coxwain Michael Conway. Rae, Bodnar, Moran and Allester were winners of the Steward's Challenge Cup. Picture by Bill Cunningham.

Grant aids resource economists

A team of UBC economists will receive more than \$806,000 over the next five years from the Canada Council for an integrated study designed to throw light on one of the least-explored areas of modern economics — the management of the world's natural resources.

Up to 45 graduate students will be associated over the next five years with the 10-member team of UBC faculty members in a wide-ranging program of research that will result in a series of reports on such topics as energy policy; petroleum, mineral, fisheries and forestry problems; and the policies of governments and industry in relation to the exploitation and taxation of natural resources.

Prof. A.D. "Tony" Scott, a

long-time member of the UBC faculty and one of the prime movers in the proposal to the Canada Council, said the project is unique in that it will be the first time that any university group in Canada has undertaken an integrated study of natural resource use.

"Up to now," he said, "there have been isolated and sporadic efforts by economists in Canada and elsewhere to come to grips with many of the problems related to the management of natural resources.

"But these dispersed efforts have not really resulted in any useful data or recommendations. Many areas of natural-resource policy — mining, for example — remain almost closed books.

"We don't even know whether we are asking the right questions about many aspects of resource exploitation. This concentrated grouping of 10 UBC specialists, all of whom have teaching and research experience in the area of natural resources, will enable us to mount a large-scale crash effort to illuminate these questions."

Prof. Scott, who is currently serving as co-ordinator of the project, said one reason why the problem of natural-resource management had not been tackled on a large-scale basis lies in the phenomenon of uncertainty that surrounds such things as resource

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tenure and the allocation of resources over time.

"In the field of natural resources, one isn't dealing with a factory-produced, standardized product that can be analyzed in terms of its production and distribution costs," he said.

"Where a factory-produced airplane is standardized to the extent that this year's model is the same as last year's, the opposite applies to ore taken from the ground or a sockeye salmon taken from the Fraser River.

"This year's lump of ore or fish is not the same as last year's, and furthermore you're dealing with an exhaustible natural resource that is altered through mining it or fishing for it.

"Add to this changing world conditions in the demand for natural resources and you create an element of uncertainty and an absence of standardization that results in a lack of guidelines for decision-making by governments and industry on such questions as when to exploit or not to exploit a resource, and what its real value is."

As an example, Prof. Scott cited the various policies of governments and the protests of industry concerning taxes and royalties in the mining industry.

"There is no reliable data available to either party on the relationship between the cost of mining copper or coal and the price at which these commodities are sold. As a result, taxes and royalties are imposed on a haphazard basis without even the barest policy guidelines.

"I don't expect that our studies will tell governments and industry how to solve taxation and royalty problems in every instance, but one of the prime aims of our project will be to develop analytical techniques and generalizations that will enable both parties to ask the right questions about the way in which a specific natural resource should be exploited, taxed and managed."

Prof. Scott said UBC has the largest group of economists in Canada — "and perhaps anywhere" — who are interested in the economics of natural resources. "This concentration of expertise could mean a real breakthrough in terms of a mass attack on the problem of the economics of natural resources," he said.

Here is a list of the UBC faculty members involved in the study and the areas they will be exploring.

Prof. John Helliwell and Dr. Ernst Berndt will deal with various aspects of energy policy. Prof. Helliwell will
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FACULTY WOMEN'S SALARIES ADJUSTED

Recommendations of the President's Ad Hoc Committee on Salary Differentials for Faculty Men and Women were approved Tuesday by the Board of Governors.

The committee of three women and three men, appointed in September by President Douglas Kenny, invited representation from any of the 281 full-time women members of the UBC faculty who wished to have her salary considered.

Those who applied were asked to name male peers, and this "matched-pair" system was used by the committee as part of its deliberations.

The committee found 29 inequities, and the 29 women will receive salary increases of varying amounts retroactive to July 1, 1975, to give them parity with their male counterparts.

The committee was co-chaired by Dr. Margaret Prang, head of the Department of History, and Dr. Jim Richards, Department of Food Science. Other members were Prof. Alan Cairns, head of the Department of Political Science; Prof. Penny Gouldstone, Faculty of Education; Prof. Julia Levy, Department of Microbiology; and Prof. Donald Whitelaw, Department of Medicine.

also carry out independent studies on pricing policy and the movement of gas and oil.

Prof. Paul Bradley and Dr. Harry Campbell will research the economics of mineral exploration. Dr. Bradley will also study technical and economic factors related to petroleum reserves.

Dr. Gordon R. Munro will specialize in fisheries problems.

Prof. Philip Neher will deal with capital theory and how it applies to natural resources.

Prof. Peter Pearce will specialize in forestry topics.

Prof. Scott plans to explore governmental arrangements for resource planning over time.

Dr. James E. Wilen will be involved in empirical aspects of optimal resource taxation.

Dr. Russell Uhler, a statistical expert, will use statistical techniques to estimate reserves of natural resources, and will also be responsible for development of a data bank for use by the research group.

Each graduate student working with one faculty member will tend to specialize rather more than most master's degree students. However, in their research and course work they will gain experience and familiarity with more than one area of natural-resource inquiry, Prof. Scott said.

The graduate students will be subject to all UBC course requirements. They will utilize the material accumulated in their research to satisfy the thesis and essay requirements for degrees.

"One of our real concerns in recent years," Prof. Scott said, "has been to attract to UBC a number of outstanding graduate students commensurate with faculty interest in the area of natural resources. The Canada Council grant, and other funds available to support the students, will enable us to mount this integrated research program."

He said that one of the long-range benefits of the program to governments and industry was the creation of a pool of talent who would bring to their future jobs expertise in the economics of natural resources. "Many of the graduate students may choose jobs unrelated directly to resource management," he said, "but the expertise they acquire in this program will always be there for future use in government and industry."

Looking on the project as a whole, Prof. Scott described its future benefits as "incalculable. We obviously have British Columbia in the back of our minds in mounting this project, but our studies will not necessarily be confined to the West Coast. Gordon Munro's fisheries studies will encompass both the East and West Coasts.

"The research studies we produce should enable governments, industry and related agencies to ask the right questions and refer to a set of generalizations and guidelines on resource management.

"On a larger scale, our research will be applicable anywhere there are natural resources being exploited, for example in Zambia and Chile, which have economies based on the exploitation of copper.

"In the final analysis, it's conceivable that this project could be of benefit to all mankind. We're enormously pleased that the Canada Council has chosen to back us."

Urban almanac gets help from UBC

Many UBC departments and inhabitants of the Point Grey campus, including faculty members and students, have played a major role in compiling and writing material for *The Vancouver Book*, a newly-published 500-page "urban almanac" about Canada's third-largest city.

Vancouver writer and broadcaster Chuck Davis, who conceived the idea for the volume in 1967, claims it's the largest book ever written about a Canadian city.

Some 200 people contributed material for the book and more than 1,000 gave it "time, effort or money, or a combination of those important things," says Mr. Davis.

People associated with UBC have made contributions to each major section of the book, including history, neighborhoods, environment, the physical city, civic government, and ethnic groups and churches.

The book includes material by the following UBC people: Prof. Philip Akrigg, English, and his wife, Helen, on Vancouver place names; Dr. David Bates, dean of Medicine, on air pollution in Vancouver; Tony Dorcey, of the Westwater Research Centre, on lower Fraser River water quality; Dr. Tim Oke and Dr. John Hay,

geography, on Vancouver's climate; Prof. Charles Rowles and Prof. Leslie Lavkulich, soil science, on Vancouver soils; Dr. Peter Moogk, history, on the historical guns of the city; Sheila Neville, of the UBC library, on community theatre; Prof. Emeritus Stanley Read, English, on Vancouver public libraries; Prof. Geoffrey Scudder, zoology, on the insects of Vancouver; Dr. Paul Tennant, political science, on civic politics; Paul Thiele, of the Crane Library for the blind at UBC, on services for the blind in Vancouver; and Peter Thompson, assistant information officer in UBC's Department of Information Services, who wrote a 10-page section on city health services.

Mr. Davis also tips his hat to the more than 1,000 persons who provided basic material for the book or offered suggestions for items to be included.

UBC people and departments included in this category are:

Education V, a division of the UBC Faculty of Education; Prof. Irving Fox, director of the Westwater Research Centre; *The Ubyyssey*, the campus student newspaper; Dr. Robert McKechnie, mechanical engineering, and three Engineering students for a paper on waste disposal; Dr. William C. Gibson, head of the Department of the History of Medicine and Science; Prof. Emeritus of Education Leonard Marsh; Prof. J. Lewis Robinson, geography; and Arnie Myers, Al Hunter and Jim Banham, of the Department of Information Services.

The book's index also contains more than 60 references to the UBC campus proper or UBC-related subjects, including the University Endowment Lands, the Great Trek of 1923, the UBC Press (which also contributed photographs for a section on Vancouver's architecture), and *UBC Reports*.

The Vancouver Book is available at the Bookstore for \$10.95 a copy.

Lady Jackson 'autographs' Crane book

The Crane Memorial Library for the blind has received a collector's item — an autographed copy of Barbara Ward Jackson's book, *The Home of Man*. But there's something different about this autograph. It's a tape-recorded message for a talking book.

Lady Jackson recorded the autograph during her recent stay in Vancouver to attend the United Nations Conference on Human Settlements. The Crane library contacted her to request copyright permission for the recording of her book, which focusses on the problems of human settlements. Not only did she grant permission, but she agreed to record a greeting for blind and handicapped readers in which she encourages blind readers and supports their efforts to gather information through non-print means.

The talking version of *The Home of Man* with its autograph will soon be available through the Crane library in the Brock Hall Annex.

English tutorials start

What would you do if you had some senior students who really loved English as a subject and wanted to teach it, and some first-year students who, for the life of them, just couldn't put a sentence together? Why, introduce them to each other, of course.

And that's exactly what the Department of English at UBC has done this summer, with money for salaries of the student teachers supplied through the provincial Department of Labour's seasonal employment university program.

The English composition tutorial program, which began Monday, July 5, was available free of charge to students planning to enrol in English 100 in the fall. More than 100 students have enrolled in the program and it is now full. The six tutors are from the English department's graduate, honors and majors programs, chosen for their competence in English and their interest in teaching.

"Almost all the students in the tutorials are those retaking English 100," explained Dr. Jon Wisenthal who, as chairman of English 100, is looking after the summer program.

The number of students in each class of English 100, the wide range

of ability the students have with the language and the limited time available for individual instruction prohibits English 100 from stressing basic language training as much as is necessary for some students, he explained.

"In this program there will be no such obstacles to language training," he said.

Tutorial sessions can be arranged with the tutors from 9 a.m. until 10 p.m. and as often as the student wishes and time permits. The sessions are based on essays which the students will write, with the tutors going over the essays individually with the students. The tutors have been given advice on teaching this kind of program by members of the English faculty, who will also be available during the summer for consultation.

"We don't have enough people during the year for this kind of remedial help," Dr. Wisenthal said. "Now we have six people for two months whose sole concern will be the teaching of remedial composition."

"And the program has the additional advantage of giving good teaching experience to the tutors," he added.

NEXT WEEK AT UBC

Notices must reach Information Services, Main Mall North Admin. Bldg., by mail, by 5 p.m. Thursday of week preceding publication of notice.

In addition to listing events of interest to the campus community scheduled for the week of July 11 – 17, this week's column includes a list of activities which will take place during Summer Session. These events, listed under the title "Summer Scene," are open to faculty, staff and students, unless otherwise noted.

For Summer Students: This column is the place where you'll find lectures, seminars, plays, concerts and anything else that might be happening at UBC next week. It will appear on the back page of *UBC Reports*, which is published every Wednesday by Information Services and placed in major campus buildings. If you can't find a copy of *UBC Reports*, pick one up at our office, second floor, Main Mall North Administration Building.

If you have notices you'd like to have published, the deadline is Thursday at 5 p.m. of the week before the edition of *UBC Reports* you'd like to have it appear in is published. Send notices to "Next Week at UBC," c/o Department of Information Services, UBC.

MONDAY, JULY 12

- 10:00 a.m. **CANADIAN RED CROSS** Blood Donor Clinic. Student Union Building. Continues until 4 p.m.
- 7:30 p.m. **SUMMER SCREEN SERIES** featuring five films about women from the National Film Board. *Woman on the March, Great Grand Mother, Spring and Fall of Nina Polanski, Housewife and Our Dear Sisters* will be shown. Lecture Hall 2, Woodward Instructional Resources Centre. Free.
- 8:00 p.m. **SUMMER THEOLOGY LECTURE SERIES.** Prof. Peter L. Berger, Graduate School, Rutgers University, on *Reflections on the Idea of Progress*. Theatre, Student Union Building.

TUESDAY, JULY 13

- 10:00 a.m. **CANADIAN RED CROSS** Blood Donor Clinic. Student Union Building. Continues until 4 p.m.

WEDNESDAY, JULY 14

- 7:30 p.m. **SUMMER SCREEN SERIES** featuring three films of political commentary and satire from the National Film Board. *A Propaganda Message, The Hecklers, and We Sing More Than We Cry* will be shown. Lecture Hall 2, Woodward Instructional Resources Centre. Free.
- 8:00 p.m. **STAGE CAMPUS '76** presents *Shelley* by Ann Jellicoe. Dorothy Somerset Studio. Tickets, \$3; students, \$2. Continues nightly until July 24. For reservations, call 228-2678.
- SUMMER THEOLOGY LECTURE SERIES.** Dorothy H. Donnelly, Jesuit School of Theology, Berkeley, on *Consciousness, The Spirit and You*. Theatre, Student Union Building.

FRIDAY, JULY 16

- 2:30 p.m. **CHEMISTRY SEMINAR.** Dr. L. Josef F. Hermans, Rijksuniversiteit, Leiden, The Netherlands, on *Experiments on Gas Transport Properties in a Magnetic Field*. Room 225, Chemistry Building.
- 7:30 p.m. **SUMMER SCREEN SERIES** featuring *Cactus Flower* with Walter Mathau and Goldie Hawn. Lecture Hall 2, Woodward Instructional Resources Centre. Free.
- 8:00 p.m. **MUSIC FOR A SUMMER EVENING.** Chamber ensemble performs *Music of Mozart, Dvorak and Brahms*. Recital Hall, Music Building.

summer scene

SUMMER STUDENTS' ASSOCIATION

If you need help with anything during Summer Session, contact the Summer Students' Association located in West Mall Annex, Rooms 140-142 or phone 228-6178. Office hours 2 to 4 p.m. weekdays.

SUMMER SESSION OFFICE

Summer Session is now part of the Office of Extra-Sessional Studies. The new office is located in the Coach House, 6323 Cecil Green Park Road. Phone 228-2581 or 228-2657.

SUMMER SOUNDS

Free noon-hour concerts held outside the Student Union Building begin on Wednesday, July 7. Everyone welcome.

SUMMER FOLK DANCE FIESTA

Wednesday evenings, 7:30 – 9:30 p.m. on the SUB plaza, folk dance sessions will be held. All that's needed is a pair of comfortable dancing shoes and your enthusiasm. All of the dances are easy to learn and exciting to dance, so come and bring your friends. For further information, call Richard Spratley, 228-3653.

LIBRARY ORIENTATION

If you are unfamiliar with the Library facilities on campus – Main Library + 13 branch libraries with more than 1.6 million books and periodicals, 1.6 million microforms, 400,000 government documents, 100,000 maps and 132,000 recordings, films, videotapes, slides, transparencies and pictures – take a tour! They're available each day until Friday, July 9 at 10:30 a.m. and 12:30 p.m., beginning in the Main Library entrance hall. One half-hour later, the Sedgewick Library is giving orientation to undergraduates. If you can't make the tour, pick up the *UBC Library Handbook* near the card catalogues in the main concourse.

FOR CHILDREN

A series of activities which will study trees and wooded areas of the campus, with direct concern for the ecology of these areas, will be held through July and the first two weeks of August. The mini-course is open to children aged 9 to 13. Parents interested in enrolling their children in the course should contact John Coates, 228-5056 (office) or 224-9182 (home phone after 5 p.m. weekdays).

YOUTH SPORTS CAMP

Information on this co-educational camp sponsored by Physical Education for children aged 7 to 14 can be obtained by calling 228-3341. Camps run for two weeks from July 5 to Aug. 13, 9 a.m. to noon, and cost \$32 for each two-week session.

RECREATION

Free swimming is once again available to Summer Session students. Check for times at the swim office at Empire Pool. Equipment for use in the gymnasium (basketballs, badminton, etc.), is also available from the swim cage.

GOLF LESSONS

The Summer Students' Association is sponsoring golf lessons. Package of eight lessons only \$8 or single lessons at \$1 for an hour's instruction. Lessons also available for faculty and staff for \$2 each hour of instruction. Register at the Summer Students' Association office, Room 140, West Mall Annex. Call 228-6178 for more information.

TENNIS LESSONS

Lessons held on Place Vanier Residence courts beginning Thursday, July 8, at 1 p.m. Cost to Summer Session students is \$1 each lesson or \$6 for a six-lesson package. Also open to faculty and staff for \$2 a lesson. Register at the Summer Students' Association office, Room 140, West Mall Annex. Call 228-6178 for more information.