

SUMMER INSTITUTE



ENVIRONMENTAL

EDUCATION

EDUC 452-8

SIMON FRASER UNIVERSITY,
KELOWNA, JULY 1999



The 28th Annual Summer Institute in Environmental Education.

In the summer of 1999 Simon Fraser University will offer its Summer Institute in Environmental Education in Kelowna, on the South Campus of Okanagan University College. The Institute, now in its 28th year of offering, is intended to provide teachers and other educators with an opportunity to consider the educational opportunities and implications of human-environment interactions.

The Institute is interdisciplinary in nature and considers the environment through the perspectives of the Natural and Social Sciences, Humanities, Economics, and the Arts. It also addresses educational programming from K-Adult levels. The programme provides a wide range of field experiences, seminars, lectures, and hands-on activities in settings ranging from wilderness to the inner city.

In 1999 the Institute will be offered by an Interdisciplinary Team coordinated by:

Dr. Milton McClaren, Emeritus Professor of Education, Simon Fraser University;

Dr. Bill Hammond, Florida Gulf Coast University, Fort Myers, Florida;

Mr. Kim Fulton, Vice Principal, Armstrong Elementary School, Armstrong, B.C.

Milton McClaren is the founding faculty member of the Summer Institute in EE and has coordinated the Minor Program in EE at SFU since its inception. He is a recipient of the Minister's Award for Environmental Education in B.C., and has received the Taft Campus Award in Environmental Education for his contributions to international EE. Bill Hammond was honored as US Conservation Teacher of the Year and has been recognized internationally for his work in the field of environmental and conservation education. He is currently a member of the South Florida Water Commission, the public agency having responsibility for the management and protection of the Florida Everglades. Kim Fulton has also received the Minister's Environment Award in B.C. and was awarded the Newman Award for his contributions to Aquatic Education and Fisheries Enhancement. This team will be joined during the institute by a number of other outstanding resource persons and teachers who add to richness of the experience for participants.

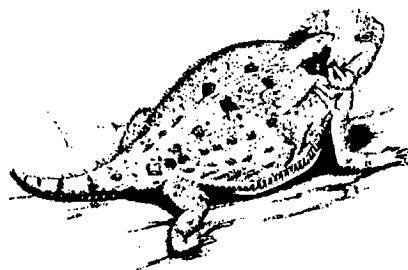
1999 Theme:

Environmental Education at the Start of a New Millennium.

In the summer of 1999 the Institute will address the role of Environmental Education as a means of developing the environmental literacy of students and of preparing them to take appropriate actions in environmental stewardship. The Institute will also explore the EE connections to be found in the new IRP's for the sciences, social studies, language arts, mathematics, and other subjects. Particular attention will be paid to the integration of different subjects through environmental education themes and topics. Since 1994 Institute students and staff have been involved in local action projects on Brandt Creek and at the Rotary Marsh in Kelowna. If appropriate opportunities are found, similar projects will also form part of the 1999 Institute. It is expected that the Wetlands Institute, a program in aquatic environmental education offered for educators, naturalists, and environmentalists from B.C., Washington, Oregon, and Alaska will be held in Kelowna concurrent with the 1999 Summer Institute in EE. We will endeavour to connect the programs of the two Institutes where ever possible in order to enhance the experiences of participants in each and to share resource persons and experiences.

To Apply and Register....

The Summer Institute in Environmental Education is a credit programme of the Faculty of Education at S.F.U. Students taking the Institute enrol for Education 452-8, and receive 8 semester hours of credit on successful completion. Regular course tuition fees apply, and there is an additional field activity fee of \$35.00. Students who have not previously attended SFU must apply for admission before registering. Former SFU students should apply to register as soon as possible, because enrolment will be limited. Information about application, admission, and registration can be obtained from the office of Undergraduate Programs in the Faculty of Education at SFU, at (604) 291 3614.



Accommodation.

Students who do not live in the South Okanagan Region can arrange to live in Skaha Court residence on the KLO Road Campus of Okanagan University College. Skaha Court is within easy walking distance of the Institute's teaching facilities located on the KLO Road Campus. Room rates vary depending on the type of accommodation chosen and range from approximately \$275.00/month to 410.00/month, although these may be subject to some adjustment in 1999. Further information can be obtained from KLO Student Housing, FAX 250 861 7018 or from Undergraduate Programs at SFU. Full information about clothing and equipment will be sent to students who are accepted into the programme. Students sometimes wish to know if it is possible to camp in campsites in the Kelowna area. In general camping spaces are at a premium and the amount of time which a person can stay at provincial campsites is limited. There are some commercially operated camp grounds near the KLO Road campus, but they tend to be very crowded in the summer. Inquiries are best made directly to commercial campsite operators.



Format of the Institute.

The Institute is offered as an intensive, total immersion Summer programme lasting four weeks. The session will commence in Kelowna on the South Campus (KLO Road Campus) of Okanagan University College on **Monday, July 5 and will conclude Thursday, July 29.** In a typical week students should expect to be involved in program activities from Monday-Friday, although some Monday's and Friday's are designated for optional activities. It is not possible to work part time or to take other courses during the Institute. Participants will spend four days in residence in the field at the McQueen Lake Environmental Study Centre (near Kamloops) during Week Two of the course (July 12-16). McQueen Lake provides basic residence and cooking facilities in a camp-type setting. Students will need basic cooking and eating utensils, sleeping bags and mattresses, and outdoor clothing and footwear. More details will be sent to successful applicants.

Recommended Pre-Reading.

Because the Summer Institute is a very intensive, total immersion experience. We recommend that registrants do some prior reading before coming to the Institute. Of particular use will be:

- Ecological Literacy, by David Orr. (Albany, NY: State University of N.Y. Press.) 1992.
- The Sacred Balance, by David Suzuki and Amanda McConnell. Greystone Books/Douglas and McIntyre, Vancouver. 1997.
- Ishmael, by Daniel Quinn. NY/Toronto: Bantam (Turner). 1992.
- The Diversity of Life, by Edward O. Wilson, N.Y. : W.W. Norton, 1992.

Teachers may wish to bring along to the Institute copies of the provincial IRP's for Science and Social Studies, in particular. They can be useful to have on hand during class sessions and discussions. Participants are also invited to bring along favorite books which address environmental topics so that these can be shared with others.

SIMON FRASER UNIVERSITY

FACULTY OF EDUCATION



8888 UNIVERSITY DRIVE
BURNABY, BRITISH COLUMBIA
CANADA V5A 1S6
Telephone: (604) 291-3395
Fax: (604) 291-3203

Dear 1999 Summer Institute in Environmental Education Participant:

This letter is intended to provide you with some added information regarding the Summer Institute in Environmental Education for this summer. You should be registered in Education 452-8, to be offered in Kelowna on the South Campus of Okanagan University College on K.L.O. Road. (There is a North Campus which is off Highway 97 near the Kelowna Airport, but we are working from the South Campus which is more central to amenities and the city itself.) As usual, the demand for the Summer Institute has been great this year. So, if for some reason your plans have changed and you aren't going to attend, please let Sally Lee in Undergraduate Programs at SFU (604 291 3614) know so she can consider people who are on the waiting list.

People who need residence accommodation should apply directly to Okanagan University College to stay in Skaha Court, the residence at the South Campus of the College. This residence is located close to the classrooms we will be using and is convenient to shops, local parks, and the beach. The college housing offers different sorts of living arrangements, ranging from private apartments to units with shared kitchens, at different price levels. In previous years they have been most helpful and the students at the institute have generally found the living situation to be acceptable. You should contact the OUC housing people directly in order to make arrangements. They may be reached at (250) 862 5422 or via the general college information number, (250) 762 5445. Some people have asked about the possibility of camping in the Kelowna area. I have checked into this in past summers and have found that camp sites are very limited in the area, and those which are available are in high demand. Additionally, the provincial park campsites, which are very limited in the Kelowna area, have restrictions on the number of days which you may stay. Thus, we advise against the camping option for this programme.

The Summer Institute in Environmental Education is based at the South Campus of Okanagan Regional College. We will be using classrooms in their main buildings, specifically lecture theatre B112 in the B (Business) building and seminar rooms H107, 109A, and H112. Please see the attached map for directions to the south campus. In previous summer we used our own SFU trailers, but all the college portables are being demolished to make way for a new secondary school which will be located on the college grounds so we will be in the main college facilities this summer. Because of this we will not have a separate phone line of our own. You may however advise people that they may leave messages for you at (250) 764 8781 or FAX at (250) 764 8720. There are also several "Internet Cafe's" in Kelowna where you can check email, etc. without having a computer of your own. If you do have a laptop you may find it convenient to bring with you, especially if you have a portable printer. At the time of this letter we are checking with the college library re the use of their computers for Internet access. However, we do expect our computer access to be more limited than it was in the past when we had our own computer lab.

Okanagan College does have a library at each campus. Students in the summer institute have used the library at the college in past years and we expect this arrangement to continue this summer, but if you have books or other resources you wish to use or share with others, please bring them along. We will also establish a resource room in our spaces during the Institute.

The Summer Institute is an intensive, total immersion experience. We will generally meet at the Centre at 0830 and break from our activities about 1530-1600 each regularly scheduled day. We may be in the field during the day, but we often meet at the college first and then car pool to avoid having too many cars in use. We let students establish their own car pool arrangements for field travel and generally drivers get assistance with gas, etc. in exchange for sharing their cars. Typically people switch roles so that one person doesn't always have to drive. There is a large parking lot directly beside our building, and a parking lot at the residence as well. You may wish to bring a bike to the course, but you will want to store your bike in the residence when you are not using it and be sure you have a good lock. There is a shopping complex within easy walking or biking distance of the residence and our centre with a full range of shops including two large grocery stores (Save-On Foods and Coopers). There is a second shopping complex quite close to the campus with a produce market and a fish store. In the immediate area there is a variety of speciality shops and restaurants as well as a local pub. There is a community park and beach along Lakeshore Road, within biking or walking distance of the site as well.

During most weeks we will be involved in scheduled whole class activities on Monday-Tuesday-Wednesday-Thursday. We also offer optional or differently structured activities on Fridays, and we sometimes use Fridays as open days for student group or individual projects. Students in the Institute often arrange special field trips, games, events, discussions, etc. during the programme. These add greatly to overall experience and we certainly invite you to do likewise. If you have a skill, hobby, experience, etc. that you like to share with people, please come prepared to offer it should the opportunity present itself. **The program will begin in 1999 at 0900 on July 5, in Room B112** and will conclude around 1200 on Thursday, July 29. Please be on time on the opening day. If you are travelling to Kelowna and plan to arrive on Sunday, July 4, be sure to check with the OUC residence people concerning check in on the weekend. You don't want to arrive and find you can't get to your room.

During one four day period of the programme (July 12-15) we will be at the McQueen Lake Environmental Study Centre, located NW of the city of Kamloops. This Centre offers accommodation in log cabins. We take our own food, basic cooking and eating utensils, and a sleeping bag plus some sort of foam mattress or ensolite. You can drive right to the Centre so you don't need back packing gear, but you will need the sort of clothing, sleeping, cooking, and eating gear you'd take on a camping trip. We ask students to organise themselves into groups in order to plan meals and share cooking tasks and cooking equipment. coolers, etc. The McQueen Lake Centre has propane cooking ranges in a large mess hall, and there is well water on the site. There is also a single propane fridge, but cold storage is VERY limited. While the accommodation is rustic it is very adequate and the site itself is superb for field work in fresh water, forest, and rangeland settings. So, you should plan to be away from Kelowna and the SFU site and residence for those four days. We will conclude the McQueen Lake trip on Thursday, July 15 by 1200. There will be no scheduled activities for that weekend.

Regarding clothing and equipment, we recommend comfortable outdoor clothing, including a light rain jacket and a hat, running shoes or light weight boots, and sunglasses. We walk a lot, so make sure you have well-fitted comfortable shoes. A small day pack will be very useful. You will likely want a camera, a flashlight, and a water bottle. A good sun screen is advised, as is insect repellent or some form of insect protection. A clip board will be of value and a hard covered field note book may be good as well. We will be providing all students with an artist's notebook to use as a personal journal and we emphasise the use of the journal as a reflective and experiential tool. You may wish to bring a small set of water colours, felt markers, a ruler, coloured pencils, glue stick, and other art stuff according to your preference. While binoculars aren't required they are handy. If you have access to field guides such as Petersen's Field Guide to Western Birds, or any of the popular guides to plants of the Northwest, bring them along also. You may want to bring several towels and a bathing suit. If you have particular interest in sports, you will want to bring your gear. There are several tennis courts on and near the South campus, and Kelowna has numerous Golf courses, ball fields, and volley ball courts as well.

You should be advised that because we are often working in Nature Centres or Conservancy areas that dogs are not permitted. If you have a dog, please arrange to have him/her boarded or attended while you are at the Institute. When you arrive at the Centre we will give you a fairly detailed timetable so you can advise visitors or family members of your schedule and plan your/their time accordingly.

The Summer Institute in Environmental Education is an 8 semester hour, credit undergraduate course in the Faculty of Education. Some students are taking the course for graduate credit under separate arrangements. If you are taking the course for undergraduate credit the course number is Education 452-8. The Institute is graded on a Pass-Withdraw system, in the same fashion as Education 401/402/405 in the Professional Programme at SFU. There will be a variety of individual and group assignments and tasks during the course. Attendance and participation are required. We expect students to contribute to the experience of the programme for other students and for the instructional team members.

As pre-reading before the course we recommend that you may want to check out the following:

1. Orr, David W. 1992. Ecological Literacy. Buffalo (NY): State University of New York. ISBN: 0-7914-0874-4
2. Quinn, Daniel. 1994. Ishmael. London: Penquin. (This book may have been published by another publisher as well; ask for it in Books in Print. You may find it filed as fiction, which it is, or as philosophy, which it also is, or as Nature/Ecology—which it also is.)
3. Orr, David W. 1994. Earth in Mind. On Education and the Human Prospect. Washington (DC): Island Press. I-55963-294-I
4. Larson, Gary. (1998). There's A Hair In My Dirt! A Worm's Story. NY: Harper-Collins. (This one will be in the Children's section of stores like Chapters or Duthies' but it is really written for people of almost all ages. Its wonderful!)
5. Leopold, Aldo. (1949). A Sand County Almanac. London/NY: Oxford. (This is a classic and has been reprinted numerous times in various editions. It is still in print.)

6. Benyus, Janine. (1997). *Biomimicry. Innovation inspired by Nature*. NY: Morrow. (A very interesting book.)
7. Suzuki, David. (1998). *The Sacred Balance. Rediscovering our place in Nature*. Vancouver/Toronto: Greystone/Douglas & McIntyre. This is a useful source of ideas concerning our species absolute dependence on the biosphere.

Obviously, you won't have time to read all these books before you come to the course. We will touch upon the themes and topics covered in all of them during the month, so if you can find a few of them, it will be helpful to have done some pre-reading as an orientation to ideas and issues. If you have your own favourite books/reprints/articles, please feel free to bring them to the course to share with others.

This summer the Institute will be taught by a teaching team comprised of:

Dr. Milton McClaren, Emeritus Professor of Education, Simon Fraser University. Milton is a co-author of the Ginn Connections series of Environmental Education texts, a co-author of the Global Change and Canadians Teachers Guide for the Royal Society of Canada, senior author of the BC Water Stewardship Handbook, a past member of the Steering Committee of Project WILD (U.S.). He received the B.C. Minister's Environment Award in 1993 and the Taft Campus Award in 1997.

Dr. Bill Hammond, Professor, College of Arts and Sciences, Florida Gulf Coast University, Fort Myers, Florida. Bill has been a member of the South Florida Water Commission, a former member of the Steering Committee, Project WILD, US, and of the Steering Committee, Project Learning Tree, US. He was Conservation Teacher of the Year and has been recognised widely for his work in environmental education. For 35 years he taught in schools in New York and Florida and was Director of Environmental Education and Curriculum Services for the Lee County Schools in Ft. Myers, Florida.

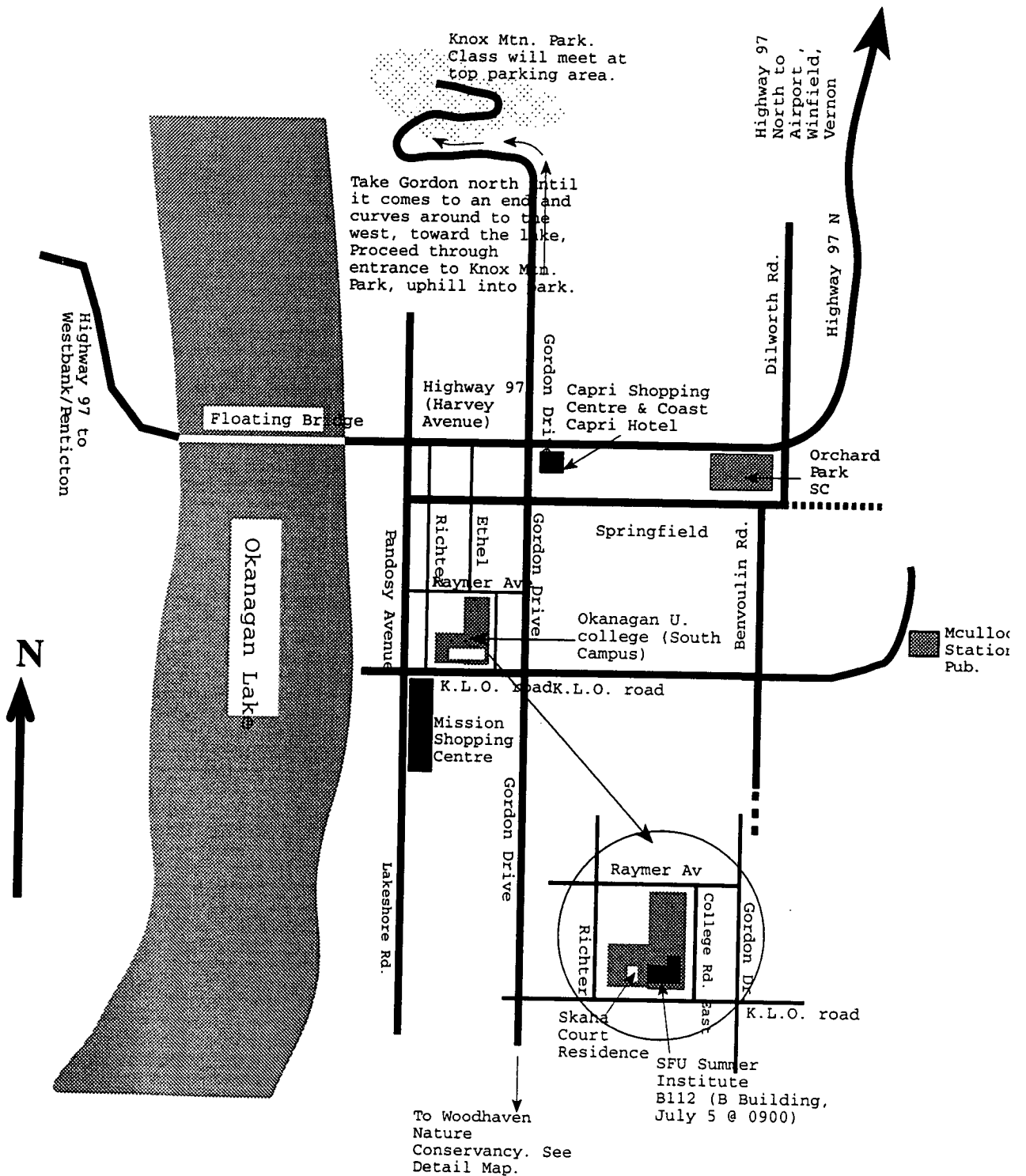
Mr. Kim Fulton, Vice Principal and Teacher Librarian, Armstrong Elementary School. Kim was coordinator of the BC Water Stewardship Programme, a co-author in the Royal Society of Canada's Global Change Education project, and a Pro-D Associate for the BCTF. He is a past recipient of the BC Minister's Environment Award and of the Newman Prize for his work in aquatic education. He is widely known online as "Dr.Fish" and was the conference moderator for the Networking the Fraser project.

The team will be joined a number of resource persons during the course of the Institutes, including Mr. Brian Herrin, West Vancouver School District, author of numerous books and papers in Science and Environmental Education and past president of the BC Science Teachers PSA as well as a recipient of the Distinguished Teachers Award from the American Chemical Society.

We are looking forward to an educational and enjoyable month at the Summer Institute and to meeting you. If you have particular questions you may address them via email to: mcclaren@sfu.ca (Milton McClaren) or to kfulton@sd83.bc.ca (Kim Fulton).

Sincerely,

Milton McClaren,
Bill Hammond,
Kim Fulton



SFU Summer Institute in Kelowna: General City Area, South Campus of OUC and Services.

The 27th Annual Summer Institute in Environmental Education.

In the summer of 1998 Simon Fraser University will offer its Summer Institute in Environmental Education at its Kelowna Regional Centre. The Institute, now in its 27th year of offering, is intended to provide teachers and other educators with an opportunity to consider the educational opportunities and implications of human-environment interactions.

The Institute is interdisciplinary in nature and will consider the environment through the perspectives of the Natural and Social Sciences, Humanities, Economics, and the Arts. The Institute also addresses educational programming from K-Adult levels. The programme provides a full mix of field experiences, seminars, lectures, and hands-on activities in settings ranging from nature centres to the inner city.

In 1998 the Institute will be offered by an Interdisciplinary Team which will be coordinated by:

Bill Hammond, M.Sc.

President, Natural Context, Fort Myers, Florida. Bill Hammond is an internationally known environmental educator, a former member of the steering committees of Project WILD and Project Learning Tree (US), a current member of the South Florida Water Commission, and a recipient of the Conservation Teacher of the Year Award from the National Wildlife Federation of the U.S. In 1994-95 he has been involved in the development of Project GLOBE, an international programme of education about global environmental change. He is actively involved with the Pocono Environmental Centre in N.Y. and with the Brandwein Foundation.

Kim Fulton, M.Ed.

Kim is Vice Principal at Armstrong Elementary School, in Armstrong, B.C. He is well known for his work as Dr. Fish on the On-Line conferences offered by the Xchange Network and by the CLN. Recently he was coordinator of the B.C. Water Stewardship project and has also been active in the development of the Royal Society of Canada's Global Change Education program, Three Topics in Global Change.

He was a recipient of the Minister's Environment Award from the B.C. Ministry of Environment, Lands, and Parks in 1996 and in 1997 he received the Outstanding Aquatic Educator Prize from the Board of the Vancouver Public Aquarium.

The Teaching Team is supported by other resource persons who work with various segments of the programme. In previous years they have included many outstanding

environmental educators including Milton McClaren, Brian Herrin, Rick Kool, Yves Bejard, Joanne Nicklas, Susan Close, Carl de Bruyn, Michael J. Cohen, Tina Allen, and Bob Samples

1998 Theme:

Environmental Education and the Changing Curriculum.

In the summer of 1998 the Institute will address the role of Environmental Education as a means of developing the environmental literacy of students and of preparing them to take appropriate actions in environmental stewardship. The Institute will also explore the EE connections to be found in the new IRP's for the sciences, social studies, language arts, mathematics, and other subjects. Particular attention will be paid to the integration of different subjects through environmental education themes and topics. In the Summers of 1996 and 97 Institute students and staff were involved in local action projects on Brandt Creek and at the Rotary Marsh in Kelowna. If appropriate opportunities are found, similar projects will also form part of the 1998 Institute.

To Apply and Register....

The Summer Institute in Environmental Education is a credit programme of the Faculty of Education at S.F.U. Students taking the Institute enrol for Education 452-8, and receive 8 semester hours of credit on successful completion. Regular course tuition fees apply, and there is an additional field activity fee of \$35.00. Students who have not previously attended SFU must apply for admission before registering. Former SFU students should apply to register as soon as possible, because enrolment will be limited. In the summer of 1996 two sections of the Institute were offered, one in July and a second in August, but this will not be possible in 1998 so spaces will be fewer in number. Information about Application, admission, and registration can be obtained from the office of Undergraduate Programs in the Faculty of Education at SFU, at 604 291 3614 or from Field Relations and Teacher In-Service Education at 604 291 3808.

Accommodation.

Students who do not live in the South Okanagan Region can arrange to live in Skaha Court residence on the KLO Road Campus of Okanagan University College. Skaha Court is within easy walking distance of the SFU Regional Centre which also is located on the KLO Road Campus. In 1997 room rates varied depending on the type of accommodation chosen and ranged from \$275.00/month to 410.00/month. Further information can be obtained from KLO Student Housing, FAX 250 861 7018. Full information about clothing and equipment will be sent to students who

to know if it is possible to camp in campsites in the Kelowna area. In general camping spaces are at a premium and the amount of time which a person can stay at provincial campsites is limited. There are some commercially operated campgrounds near the KLO Road campus, but they tend to be very crowded in the summer. Inquiries are best made directly to commercial campsite operators.

Format of the Institute.

The Institute is offered as an intensive, total immersion Summer programme lasting four weeks. The session will commence at the SFU Kelowna Regional Centre on the South Campus (KLO Road Campus) of Okanagan University College on Thursday, July 2 and will conclude Thursday, July 30. In a typical week students can expect to be involved in program activities from Monday-Friday, although some Monday's and Friday's are designated for optional activities. It is not possible to work part time or to take other courses during the Institute. Participants will spend four days in residence in the field at the McQueen Lake Environmental Study Centre (near Kamloops) during Week Three of the course (July 13-17). McQueen Lake provides basic residence and cooking facilities in a camp-type setting. Students will need basic cooking and eating utensiles, sleeping bags and mattresses, and outdoor clothing and footwear. More details will be sent to successful applicants. Students enrolled in the Institute will have full use of the Macintosh Computer Lab at the Kelowna Centre during the Institute.



Recommended Pre-Reading.

Because the Summer Institute is a very intensive, total immersion experience. We recommend that registrants do some prior reading before coming to the Institute. Of particular use will be:

- Ecological Literacy, by David Orr. (Albany, NY: State University of N.Y. Press.) 1992.
- Ishmael, by Daniel Quinn. NY/Toronto: Bantam (Turner). 1992.

Teachers may wish to bring along to the Institute copies of the provincial IRP's for Science and Social Studies, in particular. They can be useful to have on hand during class sessions and discussions. Participants are also invited to bring along favorite books which address environmental topics so that these can be shared with others.



SIMON FRASER UNIVERSITY

FACULTY OF EDUCATION
Undergraduate Programs



Telephone: (604) 762 7600
Fax: (604) 861 4850

Dr. Milton McClaren,
Associate Professor,
Faculty of Education,
Simon Fraser University,
Burnaby, B.C.,
V5A 1S6

May 4, 1998.

Dear Summer Institute in Environmental Education Registrant:

Thank you for registering for Education 452-8, The Summer Institute in Environmental Education. This letter is intended to provide you with some basic information regarding the course and the things you may wish to bring to the Institute with you.

First, as usual we have had a strong response to the program this summer. As a consequence we have 50 students in the program. Thus, if you do not plan to attend because your plans have changed, please let the staff at Undergraduate Programs at the Faculty of Education know right away. Someone else is waiting for your spot. You can call Sally Lee, or Chris Holoboff at the main campus, 604 291 3614/604 291 3643 if your plans change.

Second, this Institute is a total immersion experience. It will begin on Thursday July 2, at 0900 at our centre on the south campus of Okanagan University College in Kelowna. SFU has separate buildings located near the NE corner of the south campus (see map). Wednesday is the Canada Day holiday in 1998 but SFU classes are supposed to start for the summer session Monday, June 29. Our staff decided that you would likely prefer a longer period before the program begins rather than starting on Monday, stopping for the Wednesday holiday, and then starting classes again on Thursday. You may want to check into the college residence if you are arriving on Monday and you should contact them to make sure about how to do this. The college residences are reasonable accommodation, close to our site. If you need information about who to contact at the OUC re residences, call Sally Lee or Chris Holoboff at 291 3614 or FAX them at 291 3203 and they can help you. Our normal operating pattern is to begin each day at 0830 or 0900 and close about 1530-1600. We usually meet at the SFU site and then often use car pools to travel to field sites in the Kelowna area. We normally use Tuesday, Wednesday and Thursday of each week for planned course experiences and reserve Mondays and Fridays for special events, optional experiences, and for work on projects, however you will note on the attached schedule that we have made use of some Mondays and Fridays. Our Kelowna site has a computer lab with about 15 networked Macintosh computers. They are all connected to

the Internet so you can access on-line EE resources. If you want to bring a computer of your own to the centre we can provide work space in the computer lab. We don't have network or software support for DOS/Windows machines so if they are your choice, bring along your software and/or printer. (We do have software to exchange PC word processors to MAC for printing.)

We have some resource books and materials at the site. You can use these, but we don't have multiple copies of most. We will also be giving you resources at the course. Okanagan College has a reasonable library at its North Campus near the Kelowna Airport. There is also a new public library quite near the site. However, if you have favorite environmental books/resource materials, please bring them. If you have video tapes which you like to share with people, bring them also.

We spend quite a lot of time in the field during this course. It can be quite hot in Kelowna during July so you will want to have a hat, sunglasses, and sun screen, plus comfortable outdoor clothes and good walking shoes. A day bag and water bottle are also helpful, as is a clip board. We recommend bringing along crayons, coloured pencils, water colours, sketch pads, glue sticks, scissors, and other "creative tools". We have some of these at the centre, but with 48 people our resources will be pressed. You will likely want a camera and you may also find binoculars useful. Students have also brought portable VCR's in recent years. If you have hand lenses, bug boxes, magnifiers, etc. bring them along for your use also.

During the week of July 13 we will be at the McQueen Lake Environmental Study Centre NW of Kamloops (we will be there for 4 days, either 13-16 or 14-17, we will finalise this ASAP). The centre is a beautiful 660 acre nature study site. Accommodation is in log cabins. The site has a large main building with gas ranges for cooking, as well as an outdoor barbecue pit. There is no electricity but there is a good well on the site. You will need to bring along your own basic eating utensils (plate, cup, bowl, cutlery) as well as some basic cooking gear. We advise people to form cooking groups for this excursion, so you may want to bring along a few pots, a frying pan, etc. if you have them. If you have an ice chest this will also be useful. You will need a sleeping bag and air mattress, foamy, or ensolite. Don't worry about packing everything into a compact package: we can basically drive right to the McQueen Centre so you don't have to backpack your gear. You can expect some bugs, so you will want a bug hat and/or repellent. Of course, it can rain, so bring a rain jacket/pants. (They'll be handy if we have wet days when we are in Kelowna also.) There are gas lights in the main building at McQueen, but battery lamps and flashlights are helpful at night on the trails and in the cabins. We expect to leave around noon on Thursday or Friday, July 16 or 17. Please note: the McQueen Site does not permit dogs.

We will return to our Kelowna site for the third and fourth weeks of the course. The course will end on Thursday, July 30. Education 452 operates on a Pass/withdraw grading system so we won't be giving out A's B's C's etc. This means that the course is essentially grade point neutral. This change was the one most recommended by many generations of students so we are delighted to have it in place. We are still working out precise course requirements at this time but you can typically expect to complete a number of individual and group tasks during the month. We will give you a full description of course expecta-

tions when you arrive on July 2.

We do typically arrange to have the SFU site open in the evenings so that people can come in and work on projects, use the computers, meet in groups, etc. We usually ask some of the people staying at the OUC dorm to take on the task of locking up the site at night so that even if the staff aren't around the building is still accessible.

This summer our core teaching team will be comprised of Bill Hammond and Kim Fulton. Bill Hammond is an internationally known Environmental Educator who normally makes his home in Fort Myers Florida. Bill is president of Natural Contexts, a consulting company. He was Director of Environmental Education and Curriculum Development for the Lee County Schools in Ft. Myer for 33 years. During his time in the school system he taught at many levels and was involved in award-winning student projects. He has been named Conservation Educator of the Year in the U.S. This year he has been involved in the development of project GLOBE, an educational effort focussed on global climate and environmental changes. GLOBE networks more than 1500 schools. He is also a member of the South Florida Water Commission, the public board responsible for the management of the Florida Everglades. Bill has worked in the Summer Institutes for more than 10 years and is very experienced with the B.C. education scene as well.

Kim Fulton has served as the Coordinator of the Provincial Water Stewardship programme. He is well known on-line as Dr. Fish and has worked extensively in salmonid enhancement, stream stewardship and environmental restoration. Kim is Vice Principal and Teacher Librarian at Armstrong Elementary School in Armstrong. He also acts as teacher-coordinator for the Networking B.C. Rivers project in which 40 schools around BC collaborate to study the four major BC River watersheds and share their findings electronically. In 1996 he was a recipient of the Minister's Environment Award and in 1997 he was given the Newman Prize for his work in Aquatic Education.

During the summer of 1997 I will be working extensively with the Institute although I am on Administrative Leave. I will be participating regularly as a resource person, visting lecturer, and general aide to Kim and Bill. A number of other resource persons will also work with you during the course, but, in a real sense, every participant can and does add something to the course from his or her experience and background. Bring along samples of the work you and/or your students have been doing, past projects, current passions. We have lots of wall space for sharing and people gain a lot from hearing about each other's work.

If you plan to bring your car to the Institute you can expect that we will try to arrange for pooling to cut down on car use and to cut costs. If you don't plan to bring a car you will likely find it useful to have a bike for local travel, shopping, etc. Our site is close to the beaches and an easy bike ride from shops and the city centre. If you don't have a car you may expect to contribute to car pool gas. We'll let people work those things out with drivers and car owners. If you have a dog, don't bring him/her to the Institute. There is no place for dogs in the college residences, and local camping facilities for people wishing to tent are very limited in the summer in the Okanagan. There is lots of parking space adja-

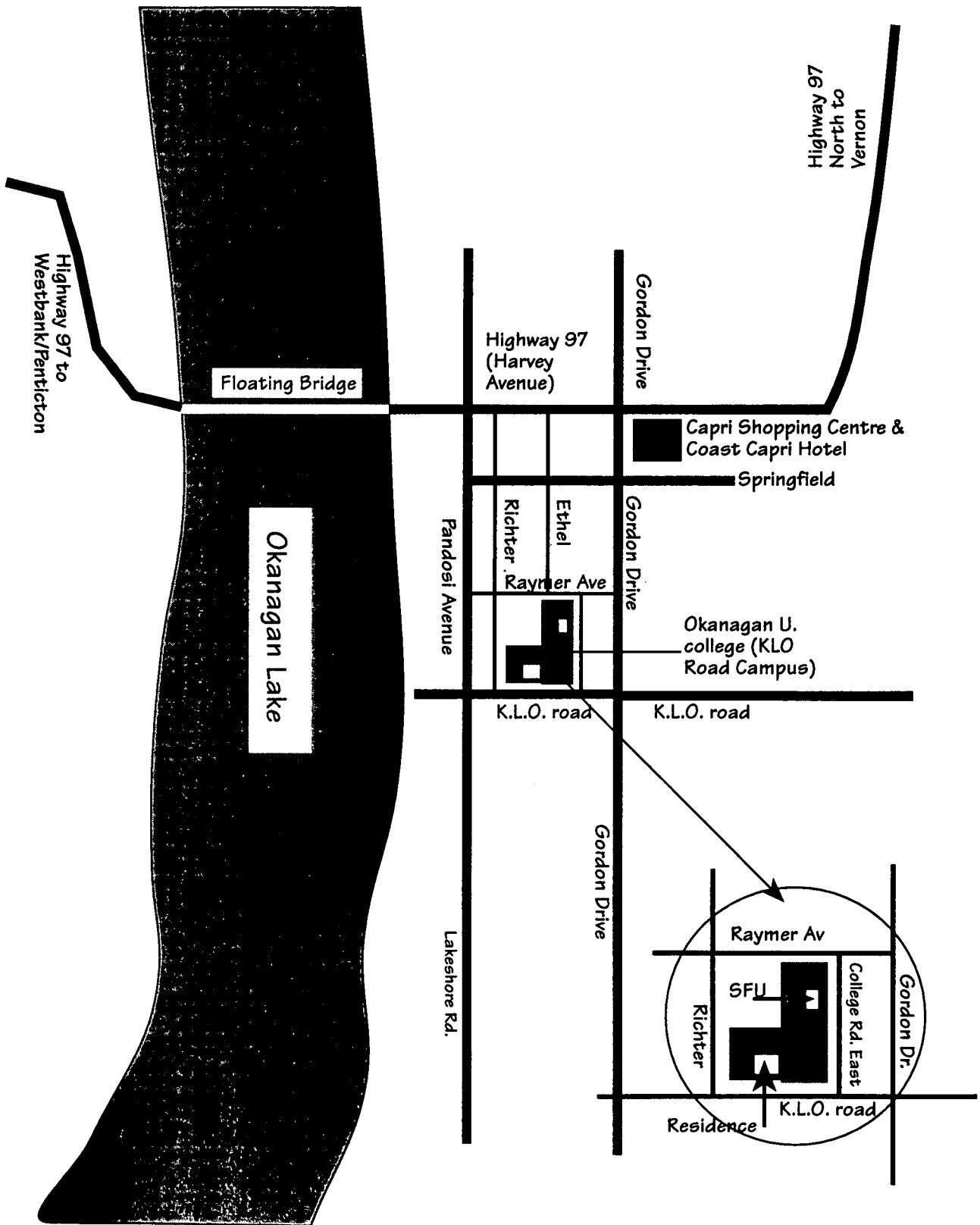
cent to the SFU site and residences. So far, no charge for parking in the summer at OUC.

If you want to leave a number where you can be reached during July, the site telephone number is 250 762 7600. The FAX is 250 861 4850. There is an answering machine on the phone when we aren't there. Kim Fulton can be reached prior to the course at 250 546 9660. You will find a map locating the site in the Kelowna area attached to this letter.

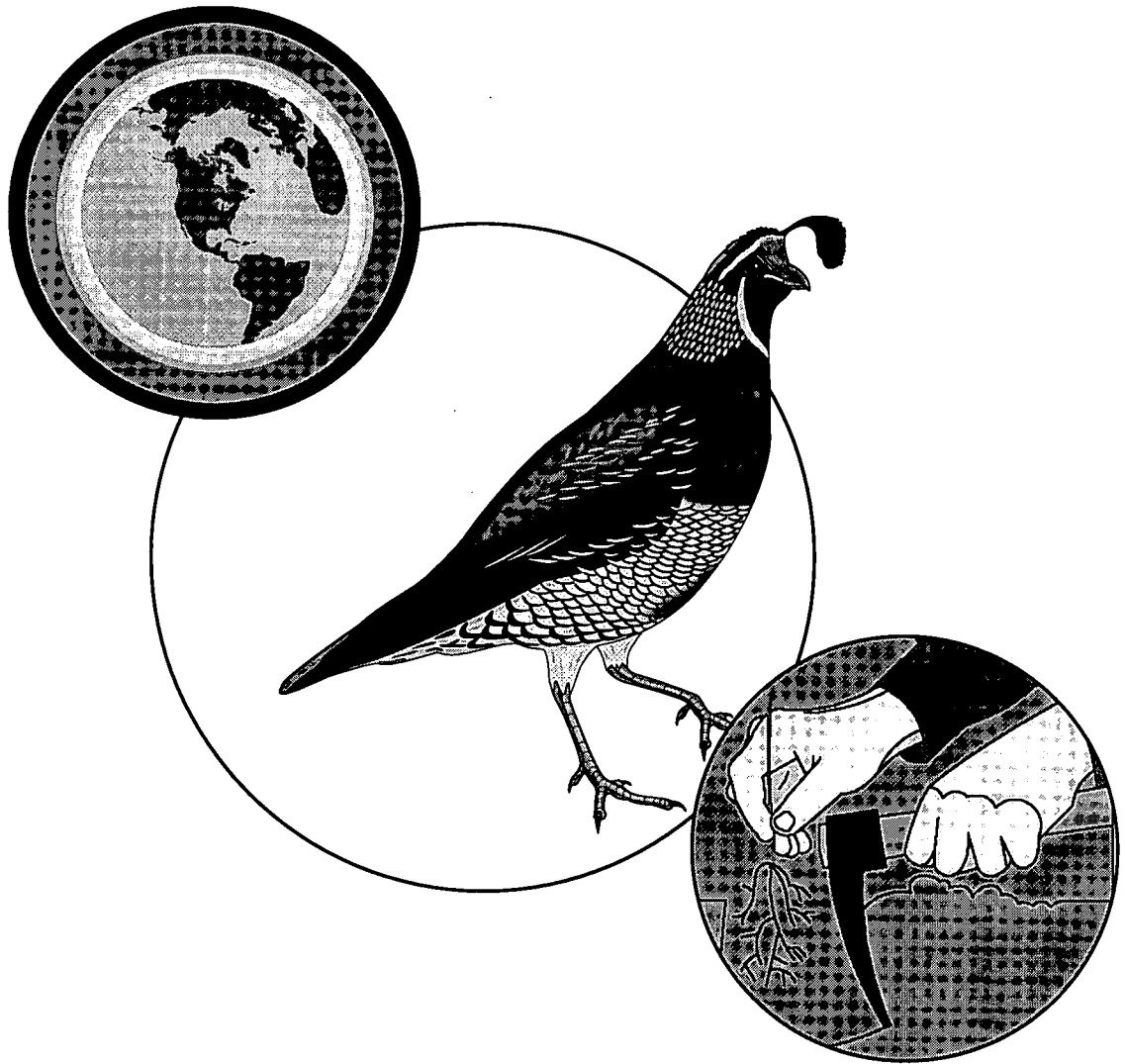
I hope this gives you some basic information about the course. We'll provide more details when you arrive. We are looking forward to meeting you then.

Sincerely,


Milton McClaren



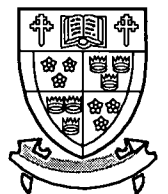
Summer Institute in Environmental Education



26th Summer Session

July 1997

Faculty of Education Simon Fraser University
Kelowna Regional Centre



The 26th Annual Summer Institute in Environmental Education.

In the summer of 1997 Simon Fraser University will offer its Summer Institute in Environmental Education at its Kelowna Regional Centre. The Institute, now in its 26th year of offering, is intended to provide teachers and other educators with an opportunity to consider the educational opportunities and implications of human-environment interactions.

The Institute is interdisciplinary in nature and will consider the environment through the perspectives of the Natural and Social Sciences, Humanities, Economics, and the Arts. The Institute also addresses educational programming from K-Adult levels. The programme provides a full mix of field experiences, seminars, lectures, and hands-on activities in settings ranging from nature centres to the inner city.

In 1997 the Institute will be offered by an Interdisciplinary Team which will be coordinated by:

Bill Hammond, M.Sc.

President, Natural Context, Fort Myers, Florida. Bill Hammond is an internationally known environmental educator, a former member of the steering committees of Project WILD and Project Learning Tree (US), a current member of the South Florida Water Commission, and a recipient of the Conservation Teacher of the Year Award from the National Wildlife Federation of the U.S. In 1994-95 he has been involved in the development of Project GLOBE, an international programme of education about global environmental change. He is actively involved with the Pocono Environmental Centre in N.Y. and with the Brandwein Foundation.

Kim Fulton, M.Ed.

Kim is Vice Principal at Armstrong Elementary School, in Armstrong, B.C. He is well known for his work as Dr. Fish on the On-Line conferences offered by the Xchange Network and by the CLN. Recently he was coordinator of the B.C. Water Stewardship project and has also been active in the development of the Royal Society of Canada's Global Change Education program, Three Topics in Global Change.

He was a recipient of the Minister's Environment Award from the B.C. Ministry of Environment, Lands, and Parks in 1996 and in 1997 he received the Outstanding Aquatic Educator Prize from the Board of the Vancouver Public Aquarium.

The Teaching Team is supported by other resource persons who work with various segments of the programme. In previous years they have included many outstanding environmental educators including Milton McClaren, Brian

Herrin, Rick Kool, Yves Bejard, Joanne Nicklas, Susan Close, Carl de Bruyn, Michael J. Cohen, Tina Allen, and Bob Samples

1997 Theme:

Environmental Education and Environmental Stewardship

In the summer of 1997 the Institute will address the role of Environmental Education as a means of developing the environmental literacy of students and of preparing them to take appropriate actions in environmental stewardship. The Institute will also explore the EE connections to be found in the new IRP's for the sciences, social studies, language arts, mathematics, and other subjects. Particular attention will be paid to the integration of different subjects through environmental education themes and topics. In the Summer of 1996 Institute students and staff were involved in local action projects on Brandt Creek and at the Rotary Marsh in Kelowna. If appropriate opportunities are found, similar projects will also form part of the 1997 Institute.

To Apply and Register....

The Summer Institute in Environmental Education is a credit programme of the Faculty of Education at S.F.U. Students taking the Institute enrol for Education 452-8, and receive 8 semester hours of credit on successful completion. Regular course tuition fees apply, and there is an additional field activity fee of \$35.00. Students who have not previously attended SFU must apply for admission before registering. Former SFU students should apply to register as soon as possible, because enrolment will be limited. In the summer of 1996 two sections of the Institute were offered, one in July and a second in August, but this will not be possible in 1997 so spaces will be fewer in number. Information about Application, admission, and registration can be obtained from the office of Undergraduate Programs in the Faculty of Education at SFU, at 604 291 3614 or from Field Relations and Teacher In-Service Education at 604 291 3808.

Accommodation.

Students who do not live in the South Okanagan Region can arrange to live in Skaha Court residence on the KLO Road Campus of Okanagan University College. Skaha Court is within easy walking distance of the SFU Regional Centre which also is located on the KLO Road Campus. In 1996 room rates varied depending on the type of accommodation chosen and ranged from \$275.00/month to 410.00/month. Further information can be obtained from KLO Student Housing, FAX 250 861 7018. Full information about clothing and equipment will be sent to students who are accepted into the programme. Students sometimes wish

to know if it is possible to camp in campsites in the Kelowna area. In general camping spaces are at a premium and the amount of time which a person can stay at provincial campsites is limited. There are some commercially operated camp grounds near the KLO Road campus, but they tend to be very crowded in the summer. Inquiries are best made directly to commercial campsite operators.

Format of the Institute.

The Institute is offered as an intensive, total immersion Summer programme lasting four weeks. The session will commence at the SFU Kelowna Regional Centre on the South Campus (KLO Road Campus) of Okanagan University College on Tuesday, July 1 and will conclude Thursday, July 24. In a typical week students can expect to be involved in program activities from Monday-Friday, although some Monday's and Friday's are designated for optional activities. It is not possible to work part time or to take other courses during the Institute. Participants will spend four days in residence in the field at the McQueen Lake Environmental Study Centre (near Kamloops) during Week Two of the course (July 8-11). McQueen Lake provides basic residence and cooking facilities in a camp-type setting. Students will need basic cooking and eating utensiles, sleeping bags and mattresses, and outdoor clothing and footgear. More details will be sent to successful applicants. Students enrolled in the Institute will have full use of the Macintosh Computer Lab at the Kelowna Centre during the Institute.

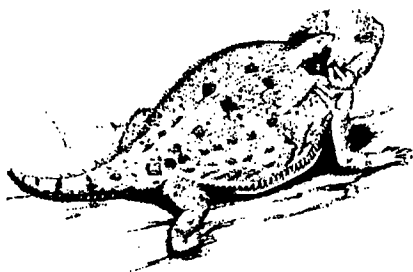


Recommended Pre-Reading.

Because the Summer Institute is a very intensive, total immersion experience. We recommend that registrants do some prior reading before coming to the Institute. Of particular use will be:

- Ecological Literacy, by David Orr. (Albany, NY: State University of N.Y. Press.) 1992.
- Ishmael, by Daniel Quinn. NY/Toronto: Bantam (Turner). 1992.

Teachers may wish to bring along to the Institute copies of the provincial IRP's for Science and Social Studies, in particular. They can be useful to have on hand during class sessions and discussions. Participants are also invited to bring along favorite books which address environmental topics so that these can be shared with others.



Memo

From: Milton McClaren
To: Summer Institute in Environmental Education Applicants
Date: February 28, 1997
Subject: Accommodation at Okanagan University College-KLO Road Campus

Students in the Summer Institute in Environmental Education who require residence accommodation are advised that the Okanagan University College Skaha Place Residence, located on the KLO Road Campus adjacent to the SFU Regional Centre where the course is held, can obtain residence information from:

Andrea Paranchuk,
Residence Office,
Skaha Place,
KLO Campus,
Okanagan University College,
100-860 KLO Road,
Kelowna, BC
V1Y 9K9

Her phone number is: 250 862 5422. Her FAX is 250 862 5423.

The Undergrad Programs office (Sally Lee: 604 291 3614) also has some copies of the residence information and application forms from the college.

Signed,

Milt McClaren.

cc: Pat McDonald,
Field Relations,

Sally Lee, Undergraduate Programs.

SIMON FRASER UNIVERSITY

FACULTY OF EDUCATION
Field Relations & Teacher In-Service
Education.



Telephone: (604) 762 7600
Fax: (604) 861 4850

Dr. Milton McClaren,
Associate Professor,
Faculty of Education,
Simon Fraser University,
Burnaby, B.C.,
V5A 1S6

June 9, 1997.

Dear Summer Institute in Environmental Education Registrant:

Thank you for registering for Education 452-8, The Summer Institute in Environmental Education. This letter is intended to provide you with some basic information regarding the course and the things you may wish to bring to the Institute with you.

First, as usual we have had a strong response to the program this summer. As a consequence we have 48 students in the program. Thus, if you do not plan to attend because your plans have changed, please let the staff at Undergraduate Programs at the Faculty of Education know right away. Someone else is waiting for your spot. You can call Sally Lee at the main campus, 604 291 3614 if your plans change.

Second, this Institute is a total immersion experience. It will begin on Tuesday, July 1, at 0900 at our centre on the south campus of Okanagan University College in Kelowna. SFU has separate buildings located near the NE corner of the south campus (see map). Tuesday is the Canada Day holiday in 1997 but SFU classes are supposed to start for the summer session Monday, June 30. Our staff decided that you would likely prefer a 3 day weekend before the program begins rather than starting on Monday, stopping for the Tuesday holiday, and then starting classes again on Wednesday. You may want to check into the college residence if you are arriving on Monday and you should contact them to make sure about how to do this. The college residences are reasonable accommodation, close to our site. If you need information about who to contact at the OUC re residences, call Sally Lee at 291 3614 or FAX her at 291 3203 and she can help you. Our normal operating pattern is to begin each day at 0830 or 0900 and close about 1530-1600. We usually meet at the SFU site and then often use car pools to travel to field sites in the Kelowna area. We normally use Tuesday, Wednesday and Thursday of each week for planned course experiences and reserve Mondays and Fridays for special events, optional experiences, and for work on projects, however you will note on the attached schedule that we have made use of some Mondays and Fridays, especially in Week 3. Our Kelowna site has a computer lab with about 15 networked Macintosh computers. They are all connected to the Internet so you can access on-line EE resources. If you want to bring a computer of your own to the centre

We have some resource books and materials at the site. You can use these, but we don't have multiple copies of most. We will also be giving you resources at the course. Okanagan College has a reasonable library at its North Campus near the Kelowna Airport. There is also a new public library quite near the site. However, if you have favorite environmental books/resource materials, please bring them. If you have video tapes which you like to share with people, bring them also.

We spend quite a lot of time in the field during this course. It can be quite hot in Kelowna during July so you will want to have a hat, sunglasses, and sun screen, plus comfortable outdoor clothes and good walking shoes. A day bag and water bottle are also helpful, as is a clip board. We recommend bringing along crayons, coloured pencils, water colours, sketch pads, glue sticks, scissors, and other "creative tools". We have some of these at the centre, but with 48 people our resources will be pressed. You will likely want a camera and you may also find binoculars useful. If you have hand lenses, bug boxes, magnifiers, etc. bring them along for your use also.

During the second week of the course, July 8-11, we will be at the McQueen Lake Environmental Study Centre NW of Kamloops. This centre is a beautiful 660 acre nature study site. Accommodation will be in log cabins. The site has a large main building with gas ranges for cooking, as well as an outdoor barbecue pit. There is no electricity. There is a good well on the site. You will need to bring along your own basic eating utensiles (plate, cup, bowl, cutlery) as well as some basic cooking gear. We advise people to form cooking groups for this excursion, so you may want to bring along a few pots, a frying pan, etc. if you have them. If you have an ice chest this will also be useful. You will need a sleeping bag and air mattress, foamy, or ensolite. Don't worry about packing everything into a compact package: we can basically drive right to the McQueen Centre so you don't have to backpack your gear. You can expect bugs this year given the VERY wet spring, so you will want a bug hat and/or repellent. Of course, it can rain, so bring a rain jacket/pants. (They'll be handy if we have wet days when we are in Kelowna also.) There are gas lights in the main building at McQueen, but battery lamps and flashlights are helpful at night on the trails and in the cabins. We expect to leave around noon on Friday, July 11. Please note: the McQueen Site does not permit dogs.

We will return to our Kelowna site for the third and fourth week of the course. The course will end on Thursday, July 24. Education 452 operates on a Pass/withdraw grading system so we won't be giving out A's B's C's etc. This means that the course is essentially grade point neutral. This change is the one most recommended by many generations of students so we are delighted to finally have it in place. We are still working out precise course requirements at this time but you can typically expect to complete a number of individual and group tasks during the month. We will give you a full description of course expectations when you arrive on July 1.

We do typically arrange to have the SFU site open in the evenings so that people can come in and work on projects, use the computers, meet in groups, etc. We usually ask some of the people staying at the OUC dorm to take on the task of locking up the site at night so that even if the staff aren't around the building can still be accessible.

This summer our core teaching team will be comprised of Bill Hammond and Kim Fulton. Bill Hammond is an internationally known Environmental Educator who normally makes his home in Fort Myers Florida. Bill is president of Natural Contexts, a consulting company. He was Director of Environmental Education and Curriculum Development for the Lee County Schools in Ft. Myer for 33 years. During his time in the school system he taught at many levels and was involved in award-winning student projects. He has been named Conservation Educator of the Year in the U.S. This year he has been involved in the development of project GLOBE, an educational effort focussed on global climate and environmental changes. GLOBE networks more than 1500 schools. He is also a member of the South Florida Water Commission, the public board responsible for the management of the Florida Everglades. Bill has worked in the Summer Institutes for more than 10 years and is very experienced with the B.C. education scene as well.

Kim Fulton has served as the Coordinator of the Provincial Water Stewardship programme. He is well known on-line as Dr. Fish and has worked extensively in salmonid enhancement, stream stewardship and environmental restoration. Kim is normally Vice Principal and Teacher Librarian at Armstrong Elementary School in Armstrong. He also acts as teacher-coordinator for the Networking B.C. Rivers project in which 40 schools around BC collaborate to study the four major BC River watersheds and share their findings electronically. In 1996 he was a recipient of the Minister's Environment Award and in 1997 he was given the Newman Prize for his work in Aquatic Education.

During the summer of 1997 I will not be working full time with the Institute because I am on Administrative Leave, but I will be participating regularly as a resource person, visting lecturer, and general aide to Kim and Bill. A number of other resource persons will work with you during the course, but, in a real sense, every participant can and does add something to the course from his or her experience and background. Bring along samples of the work you and/or your students have been doing, past projects, current passions. We have lots of wall space for sharing and people gain a lot from hearing about each other's work.

If you plan to bring your car to the Institute you can expect that we will try to arrange for pooling to cut down on car use and to cut costs. If you don't plan to bring a car you will likely find it useful to have a bike for local travel, shopping, etc. Our site is close to the beaches and an easy bike ride from shops and the city centre. If you don't have a car you may expect to contribute to car pool gas. We'll let people work those things out with drivers and car owners. If you have a dog, don't bring him/her to the Institute. There is no place for dogs in the college residences, and local camping facilities for people wishing to tent can be very limited in the summer in the Okanagan.

If you want to leave a number where you can be reached during July, the site telephone number is 250 762 7600. The FAX is 250 861 4850. There is an answering machine on the phone when we aren't there. Kim Fulton can be reached prior to the course at 250 546 9660. You will find a map locating the site in the Kelowna area attached to this letter.

Well, I hope this gives you some basic information about the course. We'll provide more details when you arrive. We are looking forward to meeting you then.

Sincerely,

Milton McClaren.

