



BC Naturalist

"To know Nature and to keep it worth knowing"



Renaissance Mann
Dr. Ian McTaggart-Cowan



"To Cause to Dream"
Youth Cycles to Educate

Fair Weather:
Saturna Camp a Success

THE PUBLICATION OF THE FEDERATION OF BC NATURALISTS

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BC Naturalist

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Objectives of the FBCN

1. To provide naturalists and natural history clubs of British Columbia with a unified voice on conservation and environmental issues.
2. To foster an awareness, appreciation and understanding of our natural environment, that it may be wisely used and maintained for future generations.
3. To encourage the formation and cooperation of natural history clubs throughout British Columbia.
4. To provide a means of communication between naturalists in British Columbia.

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Top: Otesha participants relax on the beach

Photo: Jasmine Foxlee

Bottom: Backpacking in the South Chilcotins

Photo: David Shackleton

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Editor's Notebook


— by Serena Caunce

Hello everyone! Firstly I should introduce myself for those of you I have not been in contact with; I am the new content editor of the *BC Naturalist*, as Carol is embarking in another chapter of her life, journeying to Europe for the next few months, and good luck to her! Although my editorial experience is somewhat limited, I come to the *BC Naturalist* with a Biology background and a keen interest in the welfare of wildlife and its ecology. I took on this new challenge as editor in order to gain more knowledge of naturalists and the issues that are important and worth writing about, whether for public awareness or contributing to sustainability of nature and the wellness of the environment.

Secondly, I would like to give a big THANK-YOU to those of you who so kindly provided articles and photographs for this issue. It is yourselves who make my position run smoothly. Additionally, my apologies for those who submitted but were not printed, I hope to get to them soon. Keep the articles and photographs flowing my way, I have really enjoyed reading them.

This issue, although not planned this way, devotes many pages to several outstanding naturalists within B.C. With our list of award winners and a feature about our Honorary President, Dr. Ian McTaggart-Cowan, it has revolved more around the people who contribute their valuable time to the natural world, rather than nature itself. However, these people deserve immense recognition for their achievements; and for some the recognition is well overdue. Congratulations to all of you!

For the next issue, I cannot give you a heads up on what is in the pages for you. However, a hot topic in the papers lately, and also mentioned in this issue of the club chat, has been the mishaps of CN and its trains derailing, spilling their toxic cargo into lakes and rivers. Five occurrences have been mentioned in this past month, two of which have killed or harmed several aquatic and semi-aquatic species. CN has donated to the Pacific Salmon Foundation; however I think this issue is important for naturalists to keep an eye on. If there is any interest in writing an article regarding this topic, please send me a message and I will make room in the next issue of the *BC Naturalist*.

I hope to meet more of you in the future and I look forward to hearing from you. Until next time, I wish you all the best in your endeavours. 



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Taiwan is a safe country, with good infrastructure, a strong conservation movement, friendly people, wonderful food and much to offer visitors. Come with us to enjoy the birds and culture of Taiwan!

NEXT TRIPS:

2005: November 7-16

2006: May 1-13, Fairy Pitta and Lanyu Island

November 6-18

CONTACT: Jo Ann MacKenzie, 15341- 21 Avenue, Surrey, BC, V4A 6A8, Canada, tel. 604-538-1676,

e-mail: j.a.mackenzie@telus.net, OR: Simon Liao, simonliao0624@yahoo.com.tw, Taiwan

2005 TRIP COST: From Vancouver, BC: \$3800 (sharing); \$4300 (single)
From Taipei, Taiwan: \$2700 (sharing); \$3200 (single)

2006 TRIP COST: From Vancouver, BC: \$4900 (sharing); \$5400 (single)
From Taipei, Taiwan: \$3800 (sharing); \$4300 (single)

GROUP SIZE: 6-10 participants with 2 leaders, Simon Liao and Ten-Di Wu



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Letters Sent

- Jun. 24 to the Honourable Rich Coleman, BC Minister of Forests, and to District Manager, Skeena - Stikine Forest District, re: FBCN Resolution on Off Road Vehicles and responsible outdoor recreation
- Jun. 24 to the Honourable Barry Penner, BC Minister of the Environment, re: FBCN Resolution on groundwater resources
- Jun. 24 to the Honourable Richard Neufeld, BC Minister of Energy, Mines and Petroleum Resources, re: FBCN Resolution on coal-fired electric power plants
- Jun. 24 to the Honourable Barry Penner, BC Minister of the Environment, the Honourable Stephane Dion, Federal Minister of the Environment, and the Honourable Geoff Regan, Federal Minister of Fisheries and Oceans, re: FBCN Resolution on Nanaimo River estuary management plan
- Jun. 28 to Fraser River Estuary Management Plan (FREMP) partners responsible for fisheries and eelgrass habitat, re: FREMP review of proposed expansion of White Rock Pier
- Jun. 28 to Judy Millar, Ecosystem Biologist, Okanagan Region, BC Ministry of Environment, re: FBCN comments on fuel reduction in Manning Provincial Park
- Jul. 2 to the Honourable Stephane Dion, Federal Minister of the Environment, re: Protection of the Fraser River Estuary
- Jul. 14 to Randy Hedlund, North Thompson Economic Development Society, re: North Thompson Trail Proposal

Letters Received

- Jun. 3 from Jan E. Hagen, Project Assessment Director, BC Environmental Assessment Office, re: Delta Port Expansion - Environmental Assessment
- Jun. 23 from the Honourable Geoff Regan, Federal Minister of Fisheries and Oceans, re: Fraser Estuary and FBCN concerns with its conservation

Meetings Attended

- Jun. 16 re: Muskwa-Kechika Protected Area governance and funding issues - Wayne Sawchuk and Ken Baker (Jeremy McCall)
- Jun. 21 re: Wildlife Viewing program - Larry Wells, BC Ministry of Environment and Wildlife Viewing Committee (Jeremy McCall)
- Jun. 29 re: Fraser River Estuary National Wildlife Area proposal and Deltaport Expansion - Don Fast, Paul Kluckner, Rob Butler and Bob Elner, Environment Canada (Anne Murray and Jeremy McCall)
- Jun. 30 and Jul. 28 re: Off Road Vehicle Coalition (Joan Best and Bev Ramey)
- Aug. 4 re: public group input to Provincial Biodiversity Strategy (Bev Ramey)
- Jul. 28 re: Ministry of Environment update - Nancy Wilkin, Assistant Deputy Minister, BC Ministry of Environment (Bev Ramey and Jeremy McCall - conference call)



President's Message

— by Jeremy McCall

The good news is that we now have a Ministry of the Environment in B.C. again. We may never attain a Ministry of Nature but at least this is closer! It now remains to be seen whether it will be more effective than the predecessor ministry. I suspect we will need to keep our fingers crossed. However, in a recent conversation with Nancy Wilkin, ADM for Environmental Stewardship in both the old and the new ministries, she was positive about some of the changes being made as ministerial responsibilities are shuffled.

Ms. Wilkin listed the establishment of the 130 person B.C. Conservation Corps and the transfer of responsibility for wild fish to her ministry as positive moves, while she acknowledged that there are other areas which still need to be addressed, such as adoption of the Identified Wildlife list and the proclamation of the regulations to the B.C. Wildlife Act for species at risk. We will be bringing up these latter issues when we meet with Minister Barry Penner in mid-September.

It will take a little time to get used to the demise of Land & Water B.C. (though no tears will be shed), and the assumption of that agency's responsibilities for land tenure by the Ministry of Agriculture, as well as the transfer of responsibility for forest recreation sites and trails.

The FBCN successfully sponsored 10 summer students this summer under the Human Resources and Skills Development Canada wage subsidy program. These young people assisted qualified park interpreters in 12 provincial parks and, as was the case last year, the significant administrative load for this program was managed by Maria Hamann in the FBCN office. When we meet with the Minister we will once again be emphasizing the need for a properly funded program of visitor services in B.C.'s parks to take the place of the few ad hoc programs now in operation.

At the Fall General Meeting in Lillooet we hope to be presenting two new awards - the Volunteer Recognition Award for those volunteers who may not necessarily be members of the FBCN, and the Daphne Solecki Award, which recognizes persons who have contributed to Nature Education for children in British Columbia.

After more than three years Don McLellan has advised that he will be resigning as the volunteer FBCN Treasurer. He has generously agreed to stay on until we find a replacement. Many thanks to Don for his wise counsel and for providing consistent

support to Maria in the management of the FBCN's finances during his time with us.

As you will have already noted, Serena Counce has taken over as the new volunteer editor of *BC Naturalist*. I want to thank Carol Nicolls for her energetic approach to this role during her short time with us and wish her well for her next assignment in Switzerland.

In closing I want to tell you of the sad loss of Jamie Smith to lung cancer at the age of 61. While not active in the FBCN as such, Jamie was for some years a member of the Vancouver Natural History Society. As a professor of zoology at UBC, he made a major contribution to bird ecology through his studies of small populations of birds, and of song sparrows and cowbirds. Jamie was extensively involved in conservation and an important contributor to the work of the VNHS Conservation Section. His previous experience with protection of the Vancouver Island Marmot and the Northern Goshawk proved very helpful when, in the fall of 2004, he agreed to participate as an observer on the provincial Spotted Owl Recovery Team. A memorial fund in his name for a scholarship in field studies has been set up at UBC as a tribute to his strong belief in the value of field research.



The income from your donation or bequest to the **BC Naturalists' Foundation** will be used to support the conservation and education projects of the FBCN, its member clubs and naturalists across BC for many years to come.

Your Legacy for Nature

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BC NATURALISTS FOUNDATION



Conservation Report

— by Bev Ramey

The best part of summer is revitalization from nature. A good prescription is to hike the backcountry following the songs of breeding birds amidst the ample alpine snow fall of June in Snowy Mountain Protected Area, then in July as the birds quiet down follow the lush sub-alpine/alpine flowers in the South Chilcotins, in early August listen to the dusk and dawn calling owls of the Manning Provincial Park Skyline, and finally absorb the late summer flows and scent of the ocean intertidal. What a province is BC! And ours to protect.

Off Road Vehicles -!!!Please send in your comments!!!

The Coalition for Licensing and Registration of Off Road Vehicles released a report for public comment at the end of July. Please take the time to review this report and encourage your club members to do the same. The report titled, "Options Report" is available online at www.ORVCoalitionBC.org.

The Options Report is a discussion paper that explores various alternatives for the registration, licensing and management of off road vehicles (ORVs) including important management issues related to trails, conservation and stewardship, enforcement, safety, and education. The Coalition is a broad-based alliance of motorized and non-motorized recreation interests, conservation organizations and the ranching sector. The Coalition's goal is to provide government with a cost effective and sustainable solution for the licensing and registration of ORVs in BC and to provide a framework for an effective management strategy. Meetings have been held since 2002 to arrive at consensus recommendations and to assist government to move forward with legislation aimed at better management. The options report is the second of two key documents produced by the Coalition, the first being "Solutions for a Sustainable Future: an Interim Report." It presents a strong rationale for licensing and registration and better management of off road vehicles in British Columbia. The rationale document is also available on the Coalition website.

Many of you will recall that this is not a recent issue for FBCN, and that we have made presentations and prepared briefs for government since the 1970s, urging that off road vehicles should have a visible decal or license plate. We are now hopeful that the

goal of a mandatory visible decal or license plate will be achieved, together with better education for riders on where to ride and where not to ride.

Please email comments and feedback on the Options Report to input@orvcoalitionbc.org

Copy your comments to your FBCN representatives on the Coalition, Joan Best (jb主@mail.ocis.net) and Bev Ramey (bevramey@telus.net).

We will be attending a workshop in October to finalize the report and recommendations. A tally is being kept by the Coalition on responses received to the Options Report, so it is helpful even if you simply reply that you support the report and efforts to require a visible license plate or decal for off road vehicles.

The Coalition expects to complete a final report by November 2005 that will provide government with feasible and effective recommendations for legislative change.

Leo Rutledge 1911 - 2005

It is sad that Leo Rutledge has died, and that in this past year he would have heard BC Hydro's plans to resurrect Site C Dam on the Peace River.

Leo lived the last 75 years of his life near Hudson's Hope, a community at the entrance to the Peace River canyon. In 1929 he began with a winter trap line and then augmented this with some farming, horse hauling and guide outfitting in the Prophet/Muskwa area. Together with wife Ethel, they purchased a ranch at Farrell Flats along the Peace, and raised a family.

He was well regarded as a guide outfitter for decades. Finally in 1974 he sold his guiding business, but not being one to sit around in retirement, Leo horse packed filming equipment into the Northern Rockies and made a 16 mm documentary, with subjects of wildlife, flowers and pack horses. His films brought much attention to the Northern Rockies, now known as our Serengetti of the north.

His films were powerful and his voice narration compelling. I can still remember some 30 years ago watching one of his films and listening to his voice narration at the Vancouver Planetarium auditorium. His film meticulously showed how to tie the diamond hitch on the pack horse, and then visually followed the snow melt rivulets down from the high country to the streams and big rivers.

Leo's retirement came just at the time when BC Hydro proposed the building of Site C dam. This would have flooded the Rutledge's ranch on the Peace River, so Leo put some 10 years of effort into voicing public opposition to the dam. Remember those pins, "No Damn Way BC Hydro!" In 1982, Hydro shelved plans for Site C. Next Leo put his energy into writing about the history of guiding in BC and his book, "That Some May Follow - the History of Guide Outfitting in BC." In addition, his good advice during the 1990s Land and Resource Management Plan led to Provincial Park status for the islands and south bank of the Peace.

I'm sure Leo will be watching from wherever his spirit now rests, encouraging us, the public, to oppose the resurrected Site C plans.

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The Gavin Lake Camp

— by Maria Hamann

When I used to think about the Cariboo Region I always wondered about the grasslands and the Chilcotin Plateau. But after participating in the FBCN camp at Gavin Lake I learned that the Cariboo Region is not only about grassland, but also about the forest and the rain forest in the Cariboo Mountains.

On May 29 a group of 35 participants arrived at the Gavin Lake Forestry Centre and UBC/Alex Fraser Research Forest (located about six km off the Likely Highway, North East of Williams Lake) to begin a week of learning and enjoyment.

The camp once was run by the BC Forestry Association as a summer camp, but now is run by the Gavin Lake Forest Education Society, and works on school programs. The camp offers a below cost or "subsidized" rental rate to school groups, youth groups and non-profit groups. It also has an excellent free Grade 6 Outdoor Education Program.

The lodgings at Gavin Lake were very comfortable cabins spread around Gavin Lake, with an impressive main building at the centre that became our "head quarters." There we feasted at every meal from breakfast to dinner, thanks to our wonderful cook and Williams Lake Field Naturalists' member, Joanne McLeod.

Every morning, and despite the inclement rain and a few persistent mosquitoes, we went out on a daily learning adventure. We learned about the forest (the camp is located between two




photo: Rob Harrison.

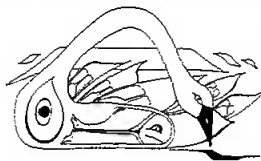
Naturalist testing the waters of the Quesnel River.

biogeoclimatic sub-boreal zones), the grasslands west of Williams Lake, the gold rush history at Quesnel Forks and the Bullion mine. We learned about the geography of the region around Beaver Valley, Likely and the historic Horsefly River.

The joy of birding could not have been missed, so we went bird watching along the grassland walks where the ponds and wetlands were full of sandpipers, stilts, and yellowlegs. We also managed to spot a couple of cranes at Beaver Valley and some grouse on our way back to Vancouver, but not a single long-billed curlew.

We also had after-supper presentations, where we learned, among other things, to love bats as well as badgers.

It is not an accident that the Camp at Gavin Lake was planned by wonderful teachers like Anna Roberts, Kris Andrews, Sue Hemphill, Fred McMechan and other members of the organization committee. Thank you to all of them. 



Comox Valley
Naturalists Society

FBCN Spring AGM May 4-7, 2006



Federation of
B.C. Naturalists

"Comox Valley: Sustaining the Land of Plenty"

Banquet Speaker:

Dr. Nancy Turner
Ethnobotanist
Distinguished Professor
in the School of
Environmental Studies at
the University of
Victoria

Friday speakers:

Local history, flora & fauna
First Nations traditional
knowledge
Ecology of the Comox Valley
Marine life in the
Strait of Georgia
Conservation strategies

Friday & Saturday

Field trips:

Early morning birding
Spring birds & flowers
Coastal forest ecosystems
Marine ecology
Local Naturalists history

Sunday events:

CVNS Annual
Spring Bird Count

*more information to
follow in the Winter
issue of the BC
Naturalist*

Dr. Ian McTaggart-Cowan: Renaissance Man

— by Rod Silver

When Andy Stewart, a wildlife biologist with the BC Conservation Data Centre went looking for historical information to include in the final volume of *The Birds of British Columbia*, he found a letter written by Dr. Rudolph M. Anderson of the Canadian National Museum to naturalist/writer/collector Hamilton M. Laing. The date was December 26, 1929. In part, it read:

There is another factor which enters into the plans. You are now about the only freelance collector in the West who is competent to do museum collecting, and is familiar with the technique, and, as an old apostle, we want you to help pass on some of the tradition to a disciple. We have a young man in view who has been recommended to me from several different sources. His name is Ian McTaggart-Cowan of North Vancouver, now a third year student at the University of BC. I met him at Winson's place in Huntingdon last Fall, and Kenneth Racey and Allan Brooks spoke highly of him, also Professors Spencer and MacLean Fraser of the department of zoology at the University.

They say his forebears were naturalists, and he has camped and hunted all his life. Spencer says he... is a go-getter in the field. I had only a short conversation with him last fall and was much taken by him.

I think that Cowan is the real thing...

Dr. Ian McTaggart-Cowan was born in Edinburgh, Scotland in 1910, and immigrated to Canada at age three. The eldest of four, his mother encouraged an early interest in natural history, an interest that grew as he did. At age twelve, he completed a one-year diary of all the birds he had seen around his North Vancouver home as a requirement for a proficiency badge in the Boy Scouts. While a first-year student at UBC, he attended a lecture by Vancouver Natural History Society life member Kenneth Racey, hosted by the Burrard Field Naturalists. The topic was small mammals of the Lower Mainland. Ian was fascinated by Racey's knowledge of wildlife, his understanding of the rapidly changing natural world and his expertise in the use of techniques to study small mammals. Racey invited him to his house to see his collection, and he sensed Ian's enthusiasm and thereafter included him in many of the Racey family field trips including outings to their summer home at Alta Lake. Racey and Cowan would publish "The Mammals of the Alta Lake Region of Southwestern BC" in 1935.

For Ian, 1930 saw the beginning of total immersion in the adventures of becoming a vertebrate zoologist. He was appointed as field assistant to Mack Laing, first for a month on the little known Tobacco Plains near Elko B.C., then for three

months to the Rocky Mountain National Parks of Jasper and Banff. It is here that his initial biological studies of the fauna of the parks were begun.

The following year, Laing's expedition was cancelled as the depths of the Great Depression took hold and research monies vanished. Kenneth Racey was seriously ill in the winter of 1930-31, and in the spring, decided to take a few months away from his business to recuperate. He asked Ian to accompany him on an extended field trip. They spent May 1931 studying the birds and mammals in the Tofino area including the fascinating near shore fauna, then the alpine assembly of creatures at the head of the Nanaimo River. The most important contribution of the Nanaimo River work was the rediscovery of the Vancouver Island Marmot, an animal not seen since it had been trapped—once—on the mountains above Alberni. June was spent with the entire Racey family on Anarchist Mountain and in the southern Okanagan where a new mammal for B.C. was discovered: the Pacific Pallid Bat. The expedition continued in July and August in the western Chilcotin and included a side trip by Racey into the unique "northern" habitats of the Itcha Mountains to see caribou. Ian acknowledges the extraordinary contribution that Racey made to his growth and understanding of wild landscapes and their vertebrates. Though a generation apart, they became life-long friends.

After graduating from the University of British Columbia with an undergraduate degree in 1932, Ian took a teaching fellowship at the University of California at Berkley to work on his doctorate. Here he had the opportunity to work under the guidance of noted ecologist Joseph Grinnell. While at home in B.C. during the summer of 1933, a broken leg almost ended his doctoral studies because he was unable to report for his duties as a teaching assistant. He found himself without an income to pay for fees and books for the autumn term. His year was saved by the generosity of Grinnell who accompanied his gift with some scholarly advice to Ian: "Now, no more foolishness about dropping out of your program because of a small shortfall. I don't want the money back—give it to some worthy student somewhere down your path. There will be many of them." Ian fondly remembers Grinnell for his kindness, and for providing a first glimpse of the dedication that good thesis advisors require in order to ensure the success of their graduate students.

After completing his doctorate at Berkley in 1935, Ian returned to British Columbia to work as a biologist at the Provincial Museum in Victoria, then directed by Francis Kermodé. He left the Museum in 1940 for an appointment as Assistant Professor in the Department of Zoology, University of British Columbia, in Vancouver. Ian appeared on the university scene at a most fortuitous time. The great graduate schools in the United States had discovered "ecology," and the graduates, of whom Ian was one, were making waves. The "field" sciences

were in ferment. Ian's first publication came in 1930, "The Mammals of Point Grey" -a modest introduction to the 300 titles and several thousand pages of contributions to knowledge that followed in the subsequent 70 years.

In 1943, Ian was contracted by Parks Canada to undertake the first extensive field studies of the fauna of the Rocky Mountain Parks of Canada. He was a natural choice for the work because, through his three-month stint in the parks with Mack Laing 13 years earlier, he was immediately at home in the landscape. His first guide was the legendary mountain man, James "Jimmy" Simpson, who provided safe passage to the most remote areas of the Rockies.

Promoted to Professor of Zoology in 1945, he served as head of the department from 1953 to 1964 where he continued to develop and teach courses in vertebrate zoology. The vertebrate zoology program at UBC was established around the personal specimen collections belonging to Ian and Kenneth Racey. It was the first academic program in Canada to study the biological basis of wildlife conservation. As well, Cowan was largely responsible for convincing Canadian governments to recruit trained wildlife biologists to staff their wildlife management agencies.

Ian became Dean of Graduate Studies at UBC in 1964. Even with expanded responsibilities, he continued to teach a course in wildlife biology, supervise directed studies and guide the research of zoology doctoral candidates. The 60s and early 70s were exciting times for students in the field sciences at UBC. In addition to Cowan and Mary Taylor in the zoology department, his students often drew on the vast knowledge and guidance of top notch leaders in other disciplines such as Bert Brink in plant science, A. J. Wood in animal science, D. J. Laird in soil science, Vladimir Krajina and Kay Beamish in botany, Bill Matthews in geology, a young Fred Bunnell in forestry/wildlife and Peter Larkin and Bill Hoar in fisheries.

In all, Ian supervised the research of some 100 graduate students and was an invaluable member of advisory committees on countless other graduate projects. Perhaps Carl Linnaeus, the father of taxonomy said it best, "a professor can never better distinguish himself in his work than by encouraging a clever pupil, for the true discoverers are among them, as comets amongst the stars."

Some of his graduate students were indeed the new "comets" in the wildlife field. Names like Maurice Hornocker (cougar), Val Geist (Stone's sheep) and C. S. Holling (predation) quickly

became associated with excellence in wildlife science. It is difficult to imagine any areas of terrestrial vertebrate zoology and wildlife conservation that have not been influenced by Ian's work. Long time UBC colleague Bert Brink agrees: "More than any others, Ian and his students have fostered knowledge of the fauna of the land and sea. I would stand by this choice from the multitude of his accomplishments as the most far reaching and significant: his field work is outstanding and global."

Few know of the pivotal role that Ian played in the elimination of the bounty system in Canada. Beginning in the 1920s, the provinces had systems to reward those who would rid the land of "undesirable" animals or so-called vermin. Some rewards involved cash—some gun cartridges, and the systems were costly, inefficient and open to widespread abuse. Wolves, cougars, coyotes, Bald Eagles, Golden Eagles, crows, jays and magpies were among the wildlife on the bounty lists. Together with J.R Dymond, a top Canadian fisheries biologist at the University of Toronto, and armed with good data from both Canada and the United States, they lectured on the folly of the bounty system to hundreds of audiences over nearly ten years. In the end, they prevailed, obtaining strong support from the hunting community. Ian would later recall this victory as "an important step in trying to put scientific management of wildlife into play." By 1973, all Canadian jurisdictions but the Northwest Territories had eliminated the bounty system on wildlife.

Cowan's interests in large mammals and ecology led him to extensive field studies in the Canadian Arctic, the Rocky Mountain National Parks, western Mexico, Scotland, Finland, Africa, several Pacific Islands and throughout British Columbia. He was highly sought after as an advisor on a variety of nature and educational issues. In all, his 36 years of conservation studies took him to six continents and resulted in more than 260 publications, 12 teaching films and 110 television programs.

Ian is recognized as a pioneer in the use of television as a medium to provide information to educate the public about conservation and the wonders of the natural world. The *Fur and Feathers* series and *The Living Sea* series, both produced by the CBC, went to air live. Only *The Web of Life* series, also a CBC production, was taped. In the popular *Fur and Feathers* series of 52 episodes in 1955-56, the approach was to confront a youngster with a natural history object that had never been

— continued on page 10



seen before, and provide facts by responding to the child's questions. The award-winning *Web of Life* was aired during 1960-63 and used footage shot in B.C., Uganda, southern United States, the Arctic, the Caribbean and the Gulf of Mexico.

Ian has a simply remarkable memory for facts, names and locations. I have experienced this talent, first hand, on many occasions. Once we were writing an educational booklet on wild sheep and I remarked to Ian that I had some unusual personal observations about California bighorn sheep and escape terrain in the Ashnola. I asked him if he knew of anything in the scientific literature about wild sheep that could support my observations. He paused for a moment and then suggested I look at "around page 80 of Gordon Haber's thesis on Dall's sheep in the 1960s." So I tracked down a copy of Haber's thesis and sure enough, the description was within five pages of where Ian said it would be. Remarkably, this was some 25 years after Ian had supervised Haber's research.

Few people realize Ian's exceptional contribution to the project that became *The Birds of British Columbia*. His efforts to help initiate the B.C. Nest Record Scheme that provided vital data for the work, and his role as one of the authors is well chronicled in the four-volume set. What is not well known is that, in addition to his authorial duties, at the request of the federal and provincial governments, Ian served for ten years as the volunteer Chair and project manager for the production of

Volumes III and IV, the Passerines. Managing the activities of the six other authors plus reporting to the federal and provincial wildlife Directors was a complex and sometimes thankless task. But his leadership paid handsome dividends. Not only were Volumes III and IV produced in a timely fashion, they provided the same type of comprehensive data that made the first two volumes so popular.


Neil Dawe, a co-author of *The Birds of British Columbia*, made the following observations about the inner workings of the author team: "What amazed me the most about working with Ian was his seemingly constant grounding and never-get-flusteredness no matter what the crises. He is one of those rare individuals who listens, encourages and respects other people's ideas and viewpoints, while not necessarily agreeing with them, and treats everyone with equity and fairness, no matter their position in life. Plus he weaves extraordinarily colourful yarns, which always made the monthly authors' meetings a joy to attend."

Ian admits to being a dedicated collector, and museums in several parts of the world house treasures of his collecting. Earlier, it was mammal, bird and plant specimens and the literature of wildlife in the northwest, and later kodachrome transparencies, alpine plants, rhododendrons, special ground orchids and award-winning revenue stamps and their legal documents. Always the collections were in search of more information on a topic of interest. The search continues today. The learning never stops.

Ian and his wife Joyce were devoted companions for over 70 years until her passing in 2002. They raised two children, Gary and Ann. There are three grandchildren and four great grandchildren. Together, Ian and Joyce savored many of the treasured wild spots of six continents including some 30 trips as naturalist hosts educating guests on special ecotourism expeditions outfitted by Lindblad Cruises. On early field trips, Joyce paid special attention to data on the occurrence of vegetation. A keen and knowledgeable bird observer, for all of her life she kept daily diaries of the visitors to her feeders at their Victoria home. She was, after all, Kenneth Racey's daughter, and natural history was a big part of daily life. Back in the early 1930s, there was more than a small mammal collection that caught Ian's eye in the Racey household.


Looking back, it was naturalists like Racey and Laing who fed and encouraged Ian's seemingly insatiable curiosity about the natural world. It was the foundation of an exceptional career in conservation and post secondary education. His lengthy record of awards, distinctions and public service reflects a broad spectrum of interests, and is a testament to his outstanding contributions to Canada. In his own words, "Evolution is never finished and this applies equally to ideas and to organisms." He himself has never ceased to evolve, as a naturalist and as a human being. Ian has spent his entire life as a learner and educator - the true mark of a Renaissance Man. Yes, Cowan is indeed "the real thing."

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Awards and Distinctions

Officer of the Order of Canada, Officer of the Order of British Columbia, Fellow of the Royal Society of Canada, Leopold Medal of the Wildlife Society, Fry Medal of the Canadian Society of Zoologists, Einarsen Award in Conservation by the Northwest Section of the Wildlife Society, and the J. Dewey Soper Award by the Alberta Society of Professional Biologists. He is also Honorary President of the Federation of B.C. Naturalists.

In recognition of his outstanding achievements, he has also been awarded honorary DSc degrees by the University of British Columbia, the University of Victoria and the University of Northern British Columbia; LLD degrees by the University of Alberta and Simon Fraser University; and a Doctor of Environmental Studies by the University of Waterloo.

Ian's name is associated with three permanent post-secondary scholarships to assist students in his discipline: The Ian and Joyce McTaggart-Cowan Scholarship at the University of Victoria for outstanding students proceeding to year three or four of an Honours program in Biology, the Dr. Ian McTaggart-Cowan Scholarship in Environmental Studies for UVIC graduate students in the School of Environmental Studies who are focusing on Endangered Species Recovery and/or Ecological Restoration, and the Dr. Ian McTaggart-Cowan Scholarship in wildlife management at the University of Northern British Columbia.

In addition, UNBC has created the Dr. Ian McTaggart-Cowan Muskwa-Kechika Research Chair (2000), and UVic has given his name to a student residence at the Commonwealth Village (1998).

An Outstanding Record of Public Service

As a founding member, he served for seven years on the National Research Council of Canada where he was the first Chairman of the Advisory Committee on Wildlife Research. He also served as Chair of the Environment Council of Canada, inaugural and 19-year Chair of the Public Advisory Board of the B.C. Habitat Conservation Trust Fund, Chair of the Board of Governors of the Arctic Institute of North America, Chair of the Canadian Committee on Whales and Whaling, and Vice President of the International Union for the Conservation of Nature. In addition, he was a member of the Select Committee on National Parks for the United States Secretary of the Interior and a long-serving director of The Nature Trust of British Columbia. He served as Chancellor of the University of Victoria from 1979 to 1984. He was also the first Chair of the College Council of B.C. for seven years.

He donated over 2000 titles from his natural history library to UNBC in 1992. Libraries have been another of his passions; he served as Chair of the UBC Senate Library Committee for 20 years.

Rod Silver (MSc, UBC) retired as manager of the Habitat Conservation Trust Fund in 2004. He first met Ian in 1971, and has worked closely with him since 1980 at the Trust Fund and on the Birds of British Columbia project. He is currently working with representatives of the University of Victoria and The Nature Trust of BC to establish a professorship in Biodiversity Conservation and Restoration in Ian's name. He would like to acknowledge the contributions in conversation of Bert Brink, Neil Dawe, Ron Erickson, Andrew MacDonald and Andy Stewart, and particularly of Dr. Ian McTaggart-Cowan himself.

This profile of Dr. Ian McTaggart-Cowan, who is the FBCN's Honorary President, appeared in the Spring 2004 edition of *Discovery* (Volume 33, No. 1), the six-monthly journal of the Vancouver Natural History Society. It has been republished with the consent of the author.

The University of Victoria has created an opportunity to honour Dr. Ian

McTaggart-Cowan's lifetime of achievement and to build upon his work through the establishment of the Dr. Ian McTaggart-Cowan Professorship in Biodiversity and Ecological Restoration. UVic will attract a rising star in conservation biology to the School of Environmental Studies where they will embrace the tradition set by McTaggart-Cowan of naturalist/scientist/activist and the challenges of biodiversity conservation through ecological restoration. There is still \$457,000 to be raised to achieve the goal of creating a \$1 million dollar endowment for the professorship. To date, the university has received a half million dollar contribution from the BC government on March 14, 2005 as well as a number of smaller donations from citizens and conservation interests. The university has committed to match the endowment once the goal of \$1 million has been reached. Naturalists can join the university to honour this extraordinary man and his work. For more information or to make a donation, please contact:

Deb Kennedy

The Nature Trust of BC

206-1000 Roosevelt Crescent

North Vancouver B.C. V7P 1M3

604.924.9771

Dr Eric Higgs

Director, School of Environmental Studies

University of Victoria

250.721.7354

The Otesha Project

— by Brook Land-Murphy

Youth cyclists spread hope and environmental awareness!

Picture four teams of youth volunteers cycling across the country this year, delivering inspirational environmental education programs to their peers. Picture 12,000 youths being touched by their programs. Picture a wave of action-reaction spreading from coast to coast, bringing us one step closer to a sustainable future. The catalyst? A new, youth-run organization by the name of the Otesha Project!



photo: Jasmine Foxlee

The Otesha Project

The Otesha Project is a national non-profit based out of Ottawa, the product of a dream conceived in 2002 by two young women, Jocelyn Land-Murphy and Jessica Lax, upon their return from travelling in Kenya. Like many North Americans who spend time in third world countries, Jocelyn and Jessica were deeply impacted by what they saw and experienced in Kenya. The contrast between their own lifestyles and consumption habits back home, and those of the vast majority of individuals they met in Kenya, was jarring. They fought the impulse to respond to this experience and ensuing realizations with guilt and a desire to throw money at “the problem.” Instead, they considered the connection between their personal every-day actions, and some of the social and environmental phenomenon they witnessed in Africa. In so doing, they realized that their world-changing energies might be best spent altering their own end of the “global equation.”

They asked themselves how they could ensure that their actions at home contributed to social and environmental justice, as opposed to perpetuating or re-enforcing global inequities. These two young women isolated a number of “action areas” to that end; such as water conservation, food choices, and fair trade economies. Having determined a number of ways they themselves could minimize their ecological and social footprint, they began discussing ways to inspire others to do the same. Infinite brain-storming sessions later, they found a means to that end: cycling educational tours! In order to honour the project’s roots, they named their initiative the “Otesha Project,”

a Ki-Swahili word meaning “to cause to dream.”

I was fortunate enough to participate in the Otesha Project’s first initiative: the 2003 Otesha Tour. For that tour, I joined more than twenty other passionate youth volunteers who cycled from Vancouver to Corner Brook, Newfoundland, bringing a message of empowerment and sustainable consumption to youth in schools, camps, and community centres all along the way. Between May and October 2003, we performed over 250 environmental education presentations to over 12,000 youths.

The core message of these programs was that we all have the power to help create the kind of world we want to see by making simple, tangible changes to the way we shop, eat and travel. Everything from choosing to buy fair-trade chocolate or local produce, to deciding to bike instead of drive, to taking the Environment Canada’s One-Tonne Challenge, are choices that have measurable, significant positive impacts on our planet and its inhabitants.

The message hit a chord with participants across the country, and ultimately generated a response which exceeded our wildest expectations. What we found is that although people are well informed about the scope or nature of the global environmental problems facing us all, we often lack a clear sense of how we, as individuals, can and do make a difference with regard to those problems. Otesha’s message of hope and inspiration responds to, and helps fill, that gap.

While on tour, people were constantly asking us what would

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photo: Jasmine Foxlee

happen once the tour was over. At that point, we hadn't really thought past kilometre 8866 and Corner Brook, Newfoundland!

After the Tour concluded, the founders transformed the Otesha Project from a "one-tour wonder" into a permanent charitable non-profit organization. Today, the Project has expanded into a number of areas, including the Hopeful High School Hooligan program, the publication of the Otesha Book "From Junk to Funk," and the launch of four additional bike tours.

The B.C. Otesha Tour

The B.C. Tour is one of Otesha's four 2005 tours. For this tour, the 21 youth volunteer members of the B.C. Team will cycle from Prince George to Prince Rupert, and then down the length of Vancouver Island, delivering Otesha programs in 16 communities along the route.

As with the 2003 Tours, the B.C. Tour will be using theatre, workshops, storytelling, dialogue and fun to encourage people to think about how every choice we make affects the earth.

In order to be able to deepen our connection with the fantastic people and organizations we will be interacting with throughout the tour, we will be spending longer amounts of time in each community we visit. We have focused our energies on 16 communities along our route, and will be spending two days presenting at middle and high schools in each of those. Additionally, in eight of the communities we will be visiting, we


will be partnering with local organizations to put on Otesha Fests. These Fests are full-day or evening events combining dialogue, eats, art and community networking! They are currently being planned for Hazelton, Queen Charlotte City, Duncan, Port McNeil, Smithers, Houston, Comox Valley, Prince Rupert and Parksville.

Despite our longer community stays, as a bike tour, we will eventually have to hop on our bikes and pedal to the next town. Herein enters Otesha's "From Junk to Funk" book, a fabulous follow-up tool which we can leave behind when we pedal forward! The B.C. Tour will be distributing 500 copies of this book to middle and high-school students across the province. This book was written by 18 members of the 2003 Team, and details sustainable consumption and climate change issues, facts, and suggested action-plan recipes.

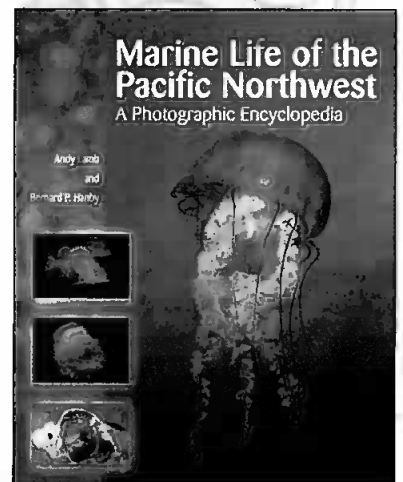
The final new initiative planned by the B.C. Tour is the Otesha Jam, a youth summit for a sustainable future to occur from October 28 to 30, 2005. It will take place at O.U.R. Ecovillage located 45 km outside of Victoria. The aim is for participants to leave the Jam inspired and empowered – ready and able to create the change we want to see in the world today!

With the Otesha Jam, "From Junk to Funk" books, a bit of pedal power, and an endless supply of peanut butter and jam sandwich fuel, the B.C. Tour hopes to support a wave of action-reaction which will sweep across this province, one individual action at a time!

To contact BC Tour Coordinators Erica Mah or Brook Land-Murphy, email us at bctour@otesha.ca.

Brook Land-Murphy is 27 years old, and has been involved with the Otesha Project in various capacities since 2003. Before beginning her stint as co-coordinator of the BC Tour, she studied law at Dalhousie, and then articulated with a socially progressive law firm in Victoria. When not in front of the computer, she may be found tending her garden, fixing bikes at the local bike co-op, or cooking up a storm with the local Food Not Bombs chapter. 

Arthropods and Annelids and Echinoderms, Oh My!



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A Forest for Healthy Hearts in Semiahmoo Merits Conservation

— by Dr. Roy Strang

Sunnyside Acres Urban Forest is a 200 ha tract of 100 year-old second growth forest on the crest of the Semiahmoo ridge in south Surrey. One third of the area is slightly higher and drier ground and occupied by Douglas fir. The remaining and wetter area supports a vigorous growth of red alder with black cottonwood, birch and some big-leaf maple. Sword fern, huckleberries, Oregon grape and vine maple dominate the understory. The forest lies at the ecotone between the CDF and CWH biogeoclimatic regions; a rare and possibly unique example, one which merits conservation in a district subject to rapid urbanization. The widespread presence of western red cedar and hemlock regeneration contrasts with the absence of Douglas fir regeneration.

A small herd of black-tailed deer live in the forest, coyotes are common, raccoons and douglas squirrels are also to be seen. Seventy-one bird species have been identified at different times of the year from bald eagles and turkey vultures to Anna's hummingbirds, which over-winter here. The forest occupies the headwaters of Elgin Creek which is recovering as a salmonid-bearing stream in its lower reaches and confluence with the Nikomekl River.

The area was logged for western red cedar late in the 19th century; large stumps are everywhere, with a subsequent felling of residual cedar, Douglas fir and hemlock in the early 1920s. Charred stumps show that burning was widespread. Cutting of alder for firewood in the 1930s and the 1940s enabled Douglas fir to become established before root systems of the previous stand had decayed therefore now there is a widespread infection of laminated root rot. This presents a major problem complicating management and threatening survival of the Douglas fir component.

For many years the area was shown on Surrey city maps as "undesignated" though a variety of uses were suggested: airstrip, underground gas or water storage, golf course and conventional housing. In 1986 City Council convened a public meeting to hear locals' views. At this meeting a handful of residents realized that they shared the same opinion, that the area should be preserved as forest, and they formed the Save-Our-Sunnyside (SOS) group. This small group lobbied City Council, wrote letters and articles for the local newspaper, raised funds, carried out a local information campaign, and generated a membership of more than 2,000. A referendum question attached to the 1998 municipal election asked "Do you want Sunnyside preserved?" With a voter turnout of 46% the response was 86% in favour of preservation. Accordingly, in December of that year the area was formally dedicated as an Urban Forest.

The SOS group disbanded once its objective was achieved

and immediately reconstituted itself as the Sunnyside Acres Heritage Society. This remains to continue fundraising and to work closely with Surrey's Parks Department, which is the legal custodian in managing the forest. "Management" means minimal interference with natural succession, a hands-off approach leaving change to nature. A few years ago Surrey Parks established an 11-member Urban Forest Advisory Committee to receive input from a wider range of users, allotting the Society two seats of which other groups have one seat each. A surfaced trail system and parking lot were amplified by a one km obstacle-free trail and boardwalk accessible to wheelchairs and the sight-impaired. This was designed and installed with financial assistance from the TD Bank's Friends of the Environment Foundation. It now enables people with difficulties in mobility to enjoy the forest. Society members have prepared a Fire Management Plan which is being used as a model by other jurisdictions having the same problem of open access to a forest which can become very dry in the summer. [Metrological data show that, on average, one year in four there is a summer period with no rainfall for 30 days or longer].

The Society has also worked with Parks staff on a Management and Access Plan and hopes soon to produce a self-guiding map and brochure to encourage residents to use the forest. During the field work for this plan a small area of cottonwood and associated species was recognized as "red listed," which is rare and endangered. Members conduct guided walks on request for all ages from kindergarten children to seniors groups and encourage local schools to make use of this "outdoor laboratory." However, response in this area has been disappointing. The Society cooperated with the Heart-and-Stroke Foundation to install "heart-smart" markers to encourage walking and, more recently with the Stewardship Program of the Friends of Semiahmoo Bay Society, to install and monitor chickadee nesting boxes.

This urban forest is a valuable and irreplaceable asset to local residents providing environmental, educational and recreational opportunities. It is much appreciated and used so that it is likely to remain a forest.

Dr. Roy Strang completed his BSc in Forestry at Edinburgh University in 1950 with the completion of his PhD in Botany at London University in 1965. He has spent 15 years in plantation and ecology research in Central and East Africa and moved to Canada in 1965, forestry and environmental research in the Maritimes, Northern Territories and BC, to retire in 1991. He received the Distinguished Forester Award from ABCFP in 2000, the City of Surrey's Citizen of the Year in 2000 and the Queen's Golden Jubilee Award in 2002.

A Record of FBCN Awards 1977 - 2005

As nominations for awards are made by FBCN members from year to year they have not previously had the benefit of access to a full record of previous awards. This situation has now been rectified thanks to the efforts of Joan Best, who has been the FBCN's hard-working Awards Chair since 2001. We are now publishing what is hopefully a fairly complete record of all the awards made by the FBCN since 1977. Quite apart from the extraordinary amount of FBCN history represented by this record, having it available will help members to see whether a person they may be thinking of nominating has already been the recipient of an award.

If anyone has information which is missing from this record, such as a club allegiance which may not have been included, or if they notice other errors, omissions or spelling errors, they are requested to forward the information to the FBCN office or to Joan Best.

Elton Anderson Award

1977 - Violet Gibbard, *South Okanagan*

1978 - Phyllis Capes, *Comox*

1979 - Madelon Schouten, *White Rock and Surrey*

1980 - Bill Merilees, *Nanaimo*

1981 - Jean and Steve Cannings, *South Okanagan*

1982 - James Grant, *North Okanagan*

1983 - Norman Purssell, *Vancouver*

1984 - Nancy Anderson, *West Kootenay*

1985 - Vernon C. (Bert) Brink, *Vancouver*

1986

Elton Anderson

Dr. Kay Beamish, *Vancouver*

Special Service

Rod Silver

Club Service

Jack Gregson, *Kamloops*; Frances Vyse, *Williams Lake*;

Mrs. Nell Whellams, *Arrowsmith*;

Wilma Robinson, *Alouette*

1987

Elton Anderson

Dick Stace-Smith, *Vancouver*

Special Service

Dr. Bert Hoffmeister

Club Service

Edna Slater, *Cowichan Valley*; Carlie Trotter, *Victoria*;

Joan and Jim Burbidge, *Kelowna*;

Howard Telosky, *Mitlenatch*;

Bill and Dorothy Van Dieren, *Nanaimo*;

Harold Pollock, *Victoria*

Barbara Chapman

Stephen Joly

1988

Elton Anderson

Peter Legg, *Vernon*

Club Service

Joan Heriot, *Vernon*; Malcolm Martin, *Vernon*;

Dr. Ken Langelier, *Nanaimo*;

Robin Campbell, *Nanaimo*

Barbara Chapman

Richard Wakeham, *VNHS*

1989

Elton Anderson

Jude Grass, *Burke Mountain*

Public Service

Roger Hunter

Club Service

Kay Bartholomew, *Vernon*; Anna Roberts, *Williams Lake*;

The McLaren Family: Karen, Art and Muriel, *Kamloops*;

Fred McMechan, *Williams Lake*;

Martha Harding, *White Rock and Surrey*

Barbara Chapman

Tessa Campbell

— continued on page 16

1990

Elton Anderson

Jim Lunan, *Comox*

Public Service

Paul Smith;

Nature Trust & B.C. Conservation Foundation

Club Service

Pauline Tranfield, *Arrousmith*; Ron Walker, *Boundary*;

Brian Self, *Vancouver*; Birch Van Horn, *Chilliwack*

Barbara Chapman

Jolie Fitzgerald, *Black Creek*

Amateur Field Observation

Salmon Arm Club

Knowing Nature

Shuswap Naturalists

1991

Elton Anderson

Joe Lotzkar, *Vancouver*

Special Service

Dr. David Suzuki; Wayne Campbell

Club Service

Mary Pastrik, *Langley*;

Madelon Schouten, *White Rock and Surrey*;

Daphne Smith, *White Rock and Surrey*;

Christine Hanrahan, *Burke Mountain*

1992

Elton Anderson

Frank Paul

Special Service

Dr. Barry Leach; Ross McCutcheon

Club Service

Frances McPherson, *Mitlenatch*;

Valerie May Whetter, *Chilliwack*;

Frances and Allan Guinet, *Chilliwack*;

John Tootchin, *Vancouver*;

Beryl Cunningham, *Alouette*; Anne Murray, *Delta*;

Tom Bates, *White Rock and Surrey*

1993

Special Service

Neil Dawe, *Arrousmith*

Club Service

Fiona Flook, *Saltspring Island*;

Betty Lunan, *Comox*; Elaine Golds, *Burke Mountain*

Knowing Nature

Comox-Strathcona Naturalists

1994

Elton Anderson

Duanne Vandenberg, *Alouette*

Recognition

Kathy Reiner

Club Service

Sandrina Rathbone, *North Shuswap*;

Vera Gotlieb, *North Shuswap*; April Mol, *Burke Mountain*;

Gladys Brown, *Chilliwack*; Deanne Munro, *Shuswap*;

Linda Van Damme, *Nelson*

Barbara Chapman

Chris Sandham, *VNHS*; Rolf Harrison, *Pender Harbour*;

Ryan Austman, *Burke Mountain*;

Chris Charlesworth, *Central Okanagan*

1995

Barbara Chapman

Jamie Fenneman, *Comox*

Club Service

Frank and Doris Kime, *Shuswap*; Karen Willies, *Kamloops*;

Syd Watts, *Cowichan Valley*; Len Goldsmith, *Squamish*;

Ruth Keogh, *White Rock and Surrey*;

Sylvia Pincott, *Central Valley*;

Mildred White, *Rocky Mountain*;

Rolf and Heather Kellerhals, *Mitlenatch*

Knowing Nature

Williams Lake Field Naturalists

1996

Elton Anderson

Frances Vyse, *Kamloops*

Recognition

Myrtle Hogan; Mladen Komnencic; Tim Wood

Club Service

Don and Norma Gillespie, *Burke Mountain*;

Ellen Schoen, *Timberline*; Glenn Ryder, *Central Valley*;

Dennis Knopp and Lee Larkin, *Chilliwack*;

Tom Dickinson, *Kamloops*

Knowing Nature

Mary-Lou Tapson-Jones

1997

Recognition

Walter Volovsek, *West Kootenay*;

South Okanagan Rehabilitation Centre for Owls, *Oliver*

Barbara Chapman

Gordon Gadsen, *Chilliwack*; Kyle Elliott, *Vancouver*

Knowing Nature

Sheri Klein, *South Okanagan*

Club Service

Madelon Schouten, *Vermilion Forks*;

Tom Gillespie, *Victoria*; Glenda Ross, *South Okanagan*;

Johanna Saaltink, *Central Valley*

1998

Elton Anderson

Audrey Hoeg, *Cowichan*

Recognition

Municipality of Saanich

Club Service

Betty Barnes, *Arrowsmith*;

Jack Robinson, *Kamloops*;

Meredith Thornton, *Timberline*;

Art Gruenig, *Rocky Mountain*

Knowing Nature

Lynn Vardeman, *Vancouver*

1999

Elton Anderson

Ted Stubbs, *Vancouver*

Recognition

Rhonda Millikin, *Canadian Wildlife Service, Regional Migration Monitoring Programme and BC/Yukon Partners in Flight*

Knowing Nature

Dr. Chris Pielou, *Comox*

Club Service

Marie Pearson, *Prince George*

2000

Elton Anderson

Allan Brooks, *Mitlenatch (posthumous)*

Recognition

Judie Steeves; Dr. Neil MacRae (*posthumous*)

Barbara Chapman

Miss Emily Ferguson, *Kamloops*

Club Service

Annabelle Rempel, *Chilliwack*; Harold King, *Oliver-Osoyoos*;

Karen McLaren, *Kamloops*;

John Harris, *White Rock and Surrey*

2001

Elton Anderson

Daphne Solecki, *Vancouver*

Recognition

Stewart Clow

Regional Recognition

Brenda Balaam, *West Kootenay*;

Birchan and Mary Van Horne, *Chilliwack*;

Betty Lunan, *Comox*

Club Service

Stan and Lyn Paterson, *Mitlenatch*;

Greg Ross, *Rocky Mountain*; Diane Lepawsky, *Vancouver*;

Lambie Family, *Mackenzie*; Lesley Keith, *Squamish*

Knowing Nature

The Osprey Survey Team, *Nelson Naturalists*

2002

Elton Anderson

Anne Murray, *Delta*

Regional

Henk & Johanna Saaltink, *Central Valley*

Recognition

Scott Alexander, *Kelowna*

Club Service

Vi Wilcox, *West Kootenay*; Don Burbidge, *Vermilion Forks*;

Rene Saveneeye, *White Rock and Surrey (posthumous)*

Knowing Nature

Central Okanagan Naturalist Club, *Kelowna*

2003

Elton Anderson

Bev Ramey, *Vancouver*

Regional

Gary Davidson, *Arrow Lakes*;

Margaret Barwis, *West Kootenay*; Joan Best, *Kamloops*

Recognition

Ross McCutcheon; Robert Koopmans, *Kamloops*

Barbara Chapman

Michael Vaninsberghe, *Victoria*

Club Service

Marie Madsen, *Mitlenatch Field Naturalists*;

Ralph Ritcey, *Kamloops Naturalist Club*

2004

Outstanding Naturalist

Malcolm Martin, *Vernon*

Regional

Ron Speller, *Vancouver Island*;

Eva Durance, *South Okanagan*

Recognition

Stephen Hume; Blair Acton, *Squilax*

Nature Education

Osoyoos Desert Society

Club Service

Rick Howie, *Kamloops*; Barbara Sedgwick, *Comox Valley*;

Anne Redfean, *Rocky Mountain*;

Dorothy Beetstra, *West Kootenay*;

Rhys and Annabel Griffiths, *Langley*

2005

Elton Anderson

Jeremy McCall, *Vancouver*

Outstanding Naturalist

Syd & Dick Cannings, *South Okanagan*

Regional

Heather & John Neville, *Saltspring Island*

Recognition

Rod Silver

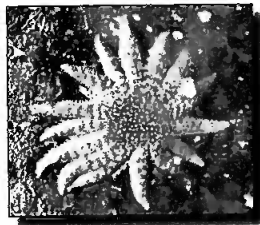


photo: Anne Murray

Sunflower star

Report on the FBCN Saturna Camp, held on 23–27 April 2005


— by Anne Murray

We knew it was going to be a successful camp when the pod of killer whales swam across in front of the ferry to Saturna Island and the sun shone down from a cloudless blue sky. Although it was only the third week of April, it felt like summer. Thirty two FBCN members, including leaders Bev Ramey and Anne Murray, gathered at East Point Resort on Saturna, for a four day action-packed nature and hiking camp. Most participants were accommodated in the six cabins at the resort, while others bunked at Bev's cabin at Winter Cove.


The schedule was similar to the 2004 camp, with a varied mix of long and short hikes, a boat trip to Tumbo and Cabbage Islands, and plenty of time for socializing over good food and wine in the evenings. With the camp timed for maximum low tides, there was ample opportunity for exploring the intertidal. At Taylor Point, the sea life was particularly rich, turning up sunflower star (*Pycnopodia helianthoides*), blood star (*Henricia leviuscula*), California sea cucumber (*Parastichopus californicus*), giant green anemone (*Anthopleura xanthogrammica*) and gum boot chiton (*Cryptochiton stelleri*). The usual harbour seals, Steller sea lions and river otters were also seen at various locations around the island.

Birding highlights included the regular sight of a huge flock of Bonaparte's gulls moving up Tumbo Channel every morning, as they fished the surface waters. When a peregrine falcon shot into view, the flock twisted and turned in a flashing display of unison, reminiscent of dunlin flocks. Bonaparte's gulls visit fairly briefly and last year we were a little too late for them. This year we also

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Kelly Sekhon, who has led many natural history tours for the VNHS as well as five successful nature trips to India will lead this tour.

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Sunset from East Point

photo: Anne Murray

picked up a roosting flock of black turnstones, sharing the East Point rocks with black oystercatchers in full breeding mode. Harlequin ducks, bald eagles, house wrens and migrating warblers kept the birders happily occupied. A singing female purple finch caused a lot of puzzlement, but is apparently a not unknown phenomenon.

Thanks to the earlier timing of the camp, we saw several different wildflowers on Tumbo and Cabbage Islands, including the beautiful chocolate lilies (*Fritillaria lanceolata*) and western white fawn lilies (*Erythronium oregonum*). Pine Islet was a kaleidoscope of blue common camas (*Camassia quamash*), pink sea blush (*Plectritis congesta*) and yellow broad-leaved stonecrop (*Sedum spathulifolium*), with its purple parasite, naked broomrape (*Orobanche uniflora*). Unfortunately, there has been a proliferation of Canada geese nibbling the flowers to death on many islets, as was illustrated by the presence of a goose nest and five eggs on Pine.

The hikes went very well, with fine weather and an exceptionally fit bunch of campers – even a couple of over-eighty year olds were scrambling up and down cliffs like youngsters! A trail through dry Douglas-fir forest and along cliff tops led to a daisy-filled meadow at Taylor Point, with a return hike through the Campbell's farm (thanks to Jim, Lorraine and Jackie for again giving us permission). The walk along Brown Ridge, from the top of Mount Warburton Pike, was spectacular, with a view that stretched for miles.

Thanks to everyone who came and made the camp so much fun.



Ness McCulley, Bev Ramey, Margaret Buschler checking out the intertidal at Taylor Point

photo: Anne Murray

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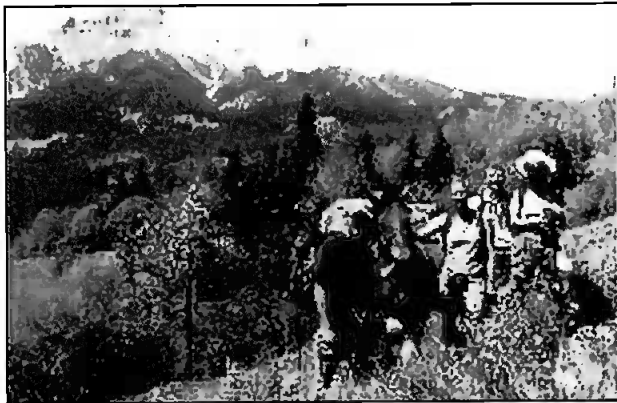
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Financing Smart Growth Forum 2005

— by Kathleen Wilkinson

On June 17th Smart Growth B.C. held a forum at the Burnaby Metrotown Hilton focused on "costs, benefits, challenges and solutions" to financing smart growth. Developers, politicians, planners, civil servants and non-profit groups gathered to hear topics such as the role of government, financial institutions, developers and planners in instituting smart growth.

Smart growth "is a collection of urban development strategies to reduce sprawl that are fiscally, environmentally and socially responsible. Smart growth is development that enhances our quality of life, protects our environment, and uses tax revenues wisely." Some characteristics of smart growth are transit and pedestrian-oriented compact residential development, downtown revitalization, preservation of farmland, green space and environmentally sensitive or significant areas; affordable, integrated housing; energy efficiency, and citizen involvement. A recent report has concluded that there can be significant infrastructure cost savings associated with smart growth planning and green design features that reduce water requirements and storm runoff.

Smart growth sounds like a no-brainer. However, there are a number of barriers. Smart growth promoters often run into costly delays as a result of inflexible, prescriptive municipal bylaws and codes, and concerns about risk and liability. In many municipalities, development cost charges (DCC's) levied on new developments by local governments to offset some of the capital costs for water, sewer, drainage, road infrastructure, and parks do not vary depending on the density of the development.

One of the strongest barriers to smart growth, mentioned by several speakers, is NIMBYism. People living in typical single-family subdivisions are often initially not pleased to see multi-family, higher density development incorporated into their neighbourhood.

Fortunately some progress is being made in breaking down these barriers. The Local Government Act allows for variable DCC's and some municipalities are adopting more flexible DCC policies to promote densification of existing neighbourhoods, and to reflect the higher infrastructure costs of greenfield development. Surrey City Centre has seen a ten-fold increase in higher density developments using a new DCC system. Region-wide standards are needed, however, to level the playing field between municipalities.

Some local governments are now taking an integrated project management approach to more complex developments so that approvals can be worked on simultaneously by different departments. One city planner suggested dealing with developments

on a neighbourhood basis, and including stakeholders and representatives of the public in development concept plans. Asking developers to seek community input and gain community support may actually save time and lessen the chance of confrontation with angry residents as a potentially controversial development proceeds through public hearings.

As NIMBYism was identified as a key barrier, clearly we need more public education on the advantages of smart growth, including health benefits of walkable communities, improved "green health" of communities where streams, woodlands and other natural areas are maintained as much as possible, and the tourism benefits of high density communities that can support cultural amenities. Smart Growth B.C. (www.smartgrowth.bc.ca) has a number of publications on smart growth principles, benefits and examples. The West Coast Environmental Law Association has recently published a Smart Growth Bylaws Guide (www.wcel.org) to assist local governments to implement smart growth strategies through policy and bylaw changes. Canada Mortgage and Housing Corporation (CMHC) also has a number of pamphlets on topics such as sustainable community planning, building retrofitting and residential densification.

The Keynote speaker, Chris Leinberger, an urban land use strategist and developer from Albuquerque, New Mexico, noted that although one third to one half of U.S. residents want to live in smart growth cities, most U.S. cities are 85-90% asphalt and sprawl is subsidized by both government and private utilities. Leinberger suggested that downtowns, university campuses and greenfields are ideal locations to practice smart growth, and also advocated burying the big box stores, replacing them with mixed cultural, residential and retail developments. Once a development project achieves its financial goals, a portion of the profits may be used to finance affordable housing in a process called "value-latching." His website, www.cleinberger.com, has a number of interesting articles detailing innovative ways to combat sprawl and finance smart growth.

The large turnout of city planners and politicians at this forum was very encouraging – there appears to be a high degree of support for smart growth principles at the municipal level. As naturalists we have all experienced dismay and frustration as sprawl continues to gobble up natural areas and wildlife habitat. I felt the forum was inspiring and encourage other naturalists to familiarize themselves with, and support Smart Growth B.C. as it is a valuable tool to help preserve the green spaces, wildlife habitat and environmental features that we cherish, while creating healthier, more livable communities.

Kathleen Wilkinson has a background in agriculture (BScA.) and plant ecology (MSc) and worked as an environmental consultant in the prairies and B.C. since the 1970's. She is an FBCN director, and has a strong interest in local and regional environmental issues, including smart growth.

The Daphne Solecki Award

— by Daphne Solecki

At this year's AGM in Salmon Arm, I was given the very great honour of having a new award created in my name. This award will recognize persons who have contributed to nature education for children in British Columbia.

I am quite overwhelmed by this action by the Federation of BC Naturalists. I thank all of you, Jeremy McCall, President; Joan Best, Chair, Awards Committee; members of the FBCN executive committee, club presidents and directors and FBCN members. I cannot think of a greater recognition by my peers for work that I have so much enjoyed doing.

Following the AGM I spent a week travelling the province, going from Salmon Arm to Golden, down the Columbia wetlands, over to Fernie and back through Creston, Osoyoos and Manning Park. Once again I was brought into contact with the beauty of this province and with our great fortune to live here, all of which reinforced the necessity of an organisation such as the FBCN with the double mandate "to know Nature and to keep it worth knowing." I count it one of the luckiest days of my life when I became a member.

The experience also reinforced the necessity of introducing children to nature. With so many children now growing up in the urban environment this is both more difficult and more urgent. The marvellous and varied Explorer Days organized by YNC leaders around the province are one of the most important experiences we can offer our children, and we should all appreciate and assist their efforts. Between those who belong to clubs and those who read our magazine, *NatureWILD*, at school and in the libraries, we reach at least 1500 children. I hope this number will grow steadily over time.

As always, I express my great appreciation for the support given by the Vancouver Natural History Society in enabling the creation of the Young Naturalists' Club of BC and again I thank all of you for your recognition. I rejoice that this recognition has happened while I am still alive and kicking and able to appreciate it!



Naked broomrape

photo: Anne Murray

*Daphne Solecki Coordinator,
Young Naturalists' Club of British
Columbia Director, Vancouver
Natural History Society Tel/fax: 604
736 9471 Email: daphsol@telus.net
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Iris Griffith Field Studies and Interpretive Centre

— by Maureen Parrott

Almost a hundred supporters and dignitaries joined the Ruby Lake Lagoon Nature Reserve Society on July 28, 2005 on BC's Sunshine Coast, to celebrate the opening of the first phase of the Iris Griffith Field Studies and Interpretive Centre.

Named in memory of the well respected local conservationist Iris Griffith, who strove through her life to help protect this wonderful region, the Iris Griffith Centre will help all ages to learn about and appreciate the living world around them. Iris believed that the health of everyone relied on a healthy respect for each other and the environment. It is her legacy that we now pass on to future generations.

The new Interpretive Centre, built to high green building standards, will help visitors and school groups explore their connection with nature's intricacy and the delicate systems which support us all. Although finishing work remains to be done on the building, volunteers with the Lagoon Society are already looking forward to the next phase. This includes the launch of educational and community programming, restoration of a four hectare wetland adjacent to the Iris Griffith Interpretive Centre, and construction of an observatory whose 16" telescope will make good use of the pristine "dark sky" environment. The final phase will be the construction of a Field Studies Centre, where cutting edge research can take advantage of direct access to the mountains, forest and wetlands around the Centre.

Extraordinary natural features encircle the Ruby Lake Lagoon Nature Reserve, where the Iris Griffith Centre is located. On the mountains above the Centre, endangered marbled murrelets breed among the most ancient trees known in western Canada. Sakinaw Lake, just over the ridge, is remarkable because its fresh water floats upon fossil salt water. These special conditions support a rare breed of salmon. Spectacular tidal rapids of the Skookumchuck make the surrounding inlets exceptionally rich, as evidenced by the colourful gorgonian coral forests waving deep beneath the waters of Agamemnon Channel. In nearby Hotham Sound the sea floor drops to 660 m (2200') - the deepest



photo: Maureen Parrott

sheltered waters on the west coast of North America. "Darwin's Fishes" (stickleback species pairs, hot off the evolutionary presses) and unique and ancient cloud sponge reefs are other local stories just waiting to be told.

"It has been such an astounding achievement to complete this building in less than seven months," said Lagoon Society chair Dr. Michael Jackson at the opening ceremony, while thanking the project's many government, business, NGO and private supporters. "I feel that Iris has always been there in spirit showing us the way forward, and I'm sure she'll continue to guide us in the years ahead."

To help the Iris Griffith Centre or learn more about the project, please visit our website at www.lagoonsociety.com or phone 604-883-9893.



Club Chat

— compiled by Maria Hamann

Oliver-Osoyoos Naturalists Club

— submitted by Vivienne Calder and Harold King, Director

It is too hot to do much hiking in the Okanagan in the summer! We are happy that we are making a bit of progress with the shoreline restoration project beside the Solana Key Walkway in Osoyoos. Our committee has got permission to put up signs and "protect" the shoreline vegetation with flagging tape. Our club members and other nature-lovers in our area have been busy providing information and gaining support for the proposed Lower-Similkameen South Okanagan National Park. (Add your voice to this important initiative at www.sosnationalpark.org -created by CPAWS).

We continue to support the work of the Desert Centre, in their ongoing effort to educate the public, re: the IMPORTANCE of this precious habitat. We have been BUSY, spending several days at Local Farmer's Markets, with a table set up to tell people all the truths about this park proposal.

Some of our Members were at Hayne's Point Park, to guide people and to help them understand why we think that parks are so VERY important.

Central Okanagan Naturalist Club

— submitted by Pat Westheuser

Several outings were undertaken by the club, including Cathedral Lakes, Kokanee Glacier and Kananaskis. The club is joining with the city in weed control one location at a time mainly knapweed and toadflax. The re-growth in the fire area has produced an abundant food source for mice and voles, much to the dismay of people living in the area who are finding as many as 12 in the pool skimmers. The owl rehab society just released five kestrel young in that area so they should feed well. The club received a plaque from the Owl Rehab Centre in recognition of our donations, much of which was generated from the fall meeting.

Victoria Natural History Society

— submitted by *John Henigman*

The Victoria Natural History Society (VNHS) and the Capital Regional District co-sponsored the second annual picnic at Wicity's Lagoon in Metchosin on May 29. Field trips included birding, native plants and bug walks.

We are moving ahead with our Natural History in the Schools program. A University of Victoria Coop student, Laura McLeod, has developed strategies to get natural history included in as many school programs as possible. Funding from Anne Adamson's estate, from a University of Victoria Service Learning Internship grant, and from RLC Enterprize (a local business) is making this program possible.

VHNS volunteers are gearing up to assist with the Goldstream Art Show set for September 17 to October 10 at the Goldstream Nature House. The Society will sponsor a raffle at the Art Show with all funds going to the Goldstream Schools Program.

Records of environmentally sensitive areas in the Greater Victoria area have been dusted off and put on our website (<http://www.vicnhs.bc.ca/>). We hope that the public will be able to know much more about the environmentally sensitive areas around Victoria by consulting our website and will also be able to help us keep the information up to date.

Vancouver Natural History Society

— submitted by *Adrian Grant Duff*

Summer Camp was held at the Big Bar Ranch west of Clinton from July 3–10, 2005. Our group filled the entire camping area.

Nesting birds such as warbling vireos, mountain bluebirds and Lewis's woodpeckers and western kingbirds were easily found. The latter were seen nesting on the brackets that hold transformers onto wooden power poles. The Jesmond Lookout had a virtual wild garden in a small patch in the lee of the buildings. These plants included: *Saxifraga bronchialis*, *S. occidentalis*, *Penstemon procerus*, and *Myosotis alpestris*. The I.D. thanks to our leader Bill Kinkaid.

For B.C. Parks Day, VNHS members were on Hollyburn Ridge where Bob Holden and Wally Kiel led a history and nature trip. Bill Kinkaid and Eva Nagy led trips to Yew Lake and the Old Growth Loop to educate participants. David Cook led a forest ecology walk where participants walked through a subalpine old growth forest of mountain hemlock and yellow cedar. Katharine Steig welcomed visitors outside the Black Mountain Lodge and explained the tree species by showing fronds of branches with cones.

Daphne Solecki was present with the wonderful collection of nests and rocks etc. which the kids love. The walks were well attended.

Comox Valley Naturalist Society

— submitted by *Frank Hovenden*

The Planning Committee has been working hard in preparing for next years AGM that we are hosting. Please see our notice in this edition of the *BC Naturalist* for more information on next years AGM in the Comox Valley.

The Club's nature column has moved to the "NorthIslander" newspaper. Jocie Ingram writes the column titled "Knowing Nature." Her husband Dave Ingram provides the excellent pho-

tographs that accompany it.

Art Morgan hosted the birder's annual Bar-B-Cue at his house in Royston. Excitement is building as the first shorebirds have been spotted migrating south.

Lillooet Naturalist Society

— submitted by *Vivian Birch-Jones*

Our Society assisted the Cayoose Creek band with their restoration project at the spawning channels with information and a bird checklist. The first draft of the Lillooet hiking guide is in active use at the library. We have been in communication with the relevant Ministries and Ainsworth about our trails and protecting corridors. Ken Wright is working on a Lillooet area Bird Book. We wrote a letter protesting "development" in the Fraser River estuary area to federal Minister of Environment, cc WLAP, St'at'imc and Lillooet Mayor and Council — the Mayor is taking the letter forward to the Fraser Basin Council. The bluebird box trail has been maintained with early spring and summer expeditions. Costa's hummingbird — a confirmed sighting in April, and a yellow racer in May. The bat information sign is up at the Old Bridge at last. We donated a copy of the Naturescape series to the Lillooet library. We are looking forward to the FBCN fall meeting.

Squamish Environmental Conservation Society

— submitted by *Meg Fellowes, SECS Director*

On August 5th, there was a major toxic chemical spill of 41,000 litres of caustic soda from a CN train into the Cheakamus River. The result was a massive fish kill, virtually 100%. This issue is front and centre for environmental groups in the Squamish area.

SECS will be calling on the senior governments to: (1) review standards for rail cars carrying toxic materials, train marshalling protocols, track speeds, train length, etc.; and, (2) ensure stiff financial penalties are in place to not only restore damaged fish stocks and habitat, but also to act as a significant deterrent to environmentally irresponsible business practices. On August 3rd, CN was also responsible for the spill of fuel oil in Lake Wabamun in Alberta with significant bird kill.

On a happier note, thanks to generous funding received from VanCity and the District of Squamish, we are expanding our long running Eagle Watch program, now in its 11th year. Bald eagles in the Squamish valley are the occasion to talk about many habitat and human settlement issues, including those related to salmon, black bears, clean water, healthy riparian habitat, etc. Developing lesson plans and teaching materials for the 10 to 12 age group will be a lot of fun.

The North Okanagan Naturalists

— submitted by *Erin Nelson*

The North Okanagan Naturalists have to report — Hummingbird banding has been going well — 345 birds with 1324 trap checks. The Young Naturalists have been busy. The trips have been busy also — seven trips to various locations since June 1st and the summer camp at Wells/Barkerville. There are four trips set up before Oct. 1st. The alpine flowers are reported by the hikers and photographers to be the best in years (probably due to the extensive rains we had earlier). There has been a group set up (the Naturalists

— continued on page 24

Club chat — continued from page 23

here being part of this group) that comment on developments and other activities put forward by the City of Vernon.

Arrowsmith Naturalists

— submitted by *Pat Bourgeois*

The Englishman River estuary stewardship is continuing. On the first Monday of each month members do a flora and fauna count and on the last Friday of each month a work party concentrates on removing invasive species.

The Oceanside Young Naturalists are doing well although they have noticed that when the children reach 10 to 11 years, they tend to move onto other activities. We are very fortunate to have such a creative and dedicated team working with our young naturalists. In May, Gordon Buckingham (Director, Arrowsmith Watershed Coalition) spoke to us about rainwater management with regards to the Englishman River. In June, Sarah Bonner (Nanaimo Area Land Trust) talked about using native plants in the garden. The hikes were to Yellow Point Park and to Salmon Point on the Oyster River. Both field trips also included an invitation to share lunch at pubs after the hikes and, as always, that is a popular way to end warm, late spring days! And finally, we celebrated our clubs 35th anniversary at the annual picnic in July.

Williams Lake Field Naturalists

— submitted by *Fred McMechan*

The Scout Island Nature Centre has been busy during the summer offering nature programs to visitors. "Nature Fun," the summer program for children, has provided opportunities for them to participate in activities under the direction of our Nature Centre staff.

The Nature Trust of B.C., and the Nature Centre have been planning the construction of two informational kiosks. The panel on one kiosk will provide information about The Nature Trust and Bert Hoffmeister, the first chair of The Nature Trust. The second kiosk will focus on the management of and the public services provided at the Nature Centre, and will include a map of the Nature Centre. This project should be completed by the fall.

Members of our club have been busy recently with weed management in the Williams Lake River Valley and at the Nature Centre. In the valley we have been trying to stop the invasion of both spotted and diffuse knapweed. At the nature centre we have had crews and individuals working at managing Canada thistle, burdock and tansy.

Timberline Trail and Nature Club, Dawson Creek

— submitted by *Sue Haddow*

Activities that the Timberline Trail and Nature Club, in Dawson Creek, have organized/participated in during the past spring and summer include: May – Walking trip to the Rolla Canyon Ecological Reserve. The banks of the Pouce Coupe River, which is where the Ecological Reserve is, were too steep and dangerous to climb down, so members organized a canoe trip in June to go through the canyon; June – Trip by canoe through the Rolla Canyon Ecological Reserve. Also, a Green Wings day, in which 6 elementary school classes participated, was organized by member Meredith Thornton in cooperation with Ducks Unlimited at McQueen's Slough, a Ducks Unlimited project just north of Dawson Creek. Several

club members donated time to help with the Green Wings day; August 16th – Club hosted a barbecue to welcome Jeremy McCall to Dawson Creek on his northern tour of the province. Thank you, Jeremy, for making the effort to come up north!

Quesnel Naturalists

— submitted by *Lorna Schley*

On August 14, a group of ambitious Quesnel Naturalists made the trek to the summit of Mount Murray, a few kilometers east of Wells, B.C. Breathtaking views of Jack of Clubs Lake, Barkerville, Yank's Peak and other mountains made us feel we had accomplished it all. Yet, another kilometer across a small alpine basin containing a tiny lake followed by a short scramble up a rocky slope brought us to more magnificent views. We had now reached the summit. There were mountains in every direction: Mounts Wendle and Greenberry, across the saddle from where we had come, Two Sisters Mountain, Slide Mountain, the snow capped peaks of the Cariboo Mountains forming the backdrop for Bowron Lake Park, and the mountains to the south and west in which nestled Barkerville and Jack of Clubs Lake, far below.

The ten kilometer round trip was a good workout, but like so many challenges in life, was well worth the effort. The Mount Murray experience was one highlight of our summer activities.

The Langley Field Naturalists

— submitted by *Joan Wilmshurst, Director*

The Langley Field Naturalists held their AGM and election of officers in June. Sylvia Anderson was re-elected President.

During the summer we had a series of six events with walks on Wednesday evenings to Brydon Lagoon, Campbell Valley, Langley Bog, Aldergrove Lake Park, and Trinity Western University Trails. All of these were led by various members and were very well attended by members and non-members. On July 16 members spent two days in Manning Park and were well rewarded with a wonderful display of Alpine flowers and an unusual sighting of a yellow bellied marmot.

Our next meeting is on September 15 and Al Grass will be giving a program on "Spiders."

West Kootenay Naturalist Association

— submitted by *Brenda Balaam*

Surprise and amazement from some attending the WKNA Regional Meeting from the Boundary and Rocky Mountain Naturalists about Kokanee Creek Nature House (Nelson) established by the early WKNA with some government assistance was delightful as were awesome provincial hummingbird resource people and Julia Craig, our intended May speaker, with a powerpoint presentation on invasive plant species. Environmental challenges were established.

The surprise at June Picnic 2004 from Colville, Washington was showy milkweed specimens evoking visions of monarch butterflies. Leading to picnic 2005 with news from Robin Fitzgerald, Canadian lepidopterist, that henceforth July 1 would be Butterfly Count Day, joining the North American Butterfly Association's decades of counts July 4, allowing us July 1-5. A further surprise was nearby Jon Shepard: *Butterflies of BC and Adjacent Areas* (UBC Press), Chris Guppy (Quesnel) Jon Shepard (Nelson). Norbert Kondla, spending early July butterfly — Yukon counting, lives

in nearby Genelle; both rely for butterflies on the Pend Oreille River Valley!

Dr Joan Snyder reports miraculous surprise donations to Friends of West Kootenay Parks to meet the costs of Parks Interpreters at Kokanee Creek Park 2005!

Salt Spring Trail & Nature Club

— submitted by Nancy Braithwaite

The Salt Spring Islanders are rejoicing as \$650,000 has been raised to buy 100 acre parcel at the summit of Mt Erskine, a great achievement by the Salt Spring Island Conservancy with our support, of course, and including a donation from the Nature Conservancy of Canada amongst many others.

Three members went to the Camp at Gavin Lake arranged by Fred McMechan and the Williams Lake Naturalists. We had a wonderful week of fascinating walks, erudite talks, visit to ailing forests, the one-time mining town of Quesnel Forks, the 500 foot deep Bullion Pit Mine-from high above it, as well as an expedition across the Fraser and the Chilcotin grasslands when we were entranced by bluebirds, wild flowers, ducks and butterflies.

In September our Fall expedition will entail staying at Hope, where we have been on several occasions to explore the Kettle Valley Railway tunnels and the interesting country round about.

White Rock & Surrey Naturalists Society

— submitted by Viveka Ohman

The SSNAP (Surrey Stewardship of Natural Areas Programs) had their annual removal of invasive species such as Scotch Broom at Blackie Spit again this year. Conservation efforts are ongoing with the dog off leash being one of the main concerns, particularly in the environmentally sensitive areas of Blackie Spit. Finding a solution to this issue poses its challenges

We also went global this year with members travelling to Europe and other exotic places. There were wilderness treks to the Austrian Alps and eco-tours to the Galapagos, Panama and Taiwan. This

of course will make for interesting talks and slide shows. A new schedule of activities and speakers nites will be posted in the club newsletter and Peace Arch News.


Young Naturalists' Club of British Columbia

— submitted by Daphne Solecki, YNC Coordinator,

The YNC has now moved into the office space generously shared by the FBCN. Maria has made us so welcome there we already feel settled in our new "home." Jane Shoemaker is taking Andrew Frank's place as Assistant Coordinator as Andrew has taken a full-time position elsewhere. YNC phone number is now the same as the FBCN (604 737 3057) and the email address is coordinator@ync.ca.

We welcome our 24th Club, YNC Sunshine Coast, supported by the Ruby Lake Lagoon Nature Reserve Society. If you know families on the Sunshine Coast, please let them know there is now a YNC for them; the new leader is David Stiles – dastiles@telus.net. In all there are 650 families enrolled in YNC and 55 schools & libraries which subscribe to the YNC magazine *NatureWILD*.

We are pleased to report that, thanks to Carol Nicolls, the Gold Level Guide has been completed and is ready for use. Now the full set of Bronze, Silver and Gold level Guides are available to YNC members.

In addition to the grant received in November last year from the Gaming Commission, over the past year we have been fortunate in receiving funds from both the Nanaimo and Prince George Chapters of the Friends of the Environment Foundation, the BC Ministry of the Environment, Vancouver Foundation, Imperial Oil Foundation, and donations from some *very* generous members of the VNHS. These contributions are greatly appreciated, as with this support we have been able to create the 10+ program *and* we are able to keep the annual YNC dues at \$15 per family, so that hopefully no family will be deterred from joining by the cost factor. 

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Development and other pressures are eroding many of BC's forests, grasslands and wetlands. To preserve these precious areas and maintain viable ecosystems and wildlife habitat, we must spread the word about their importance and work to ensure their protection. The Federation of BC Naturalists has 4,000 members and their families in 48 clubs throughout the province who do just that.

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Please provide me with information about naturalist clubs in my area

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I enclose \$15 for the annual dues for a Direct Membership (if applicable) We accept payment by Visa or MasterCard.

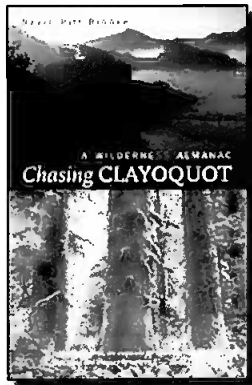
Name _____ E-mail address _____

Street address _____ City _____ Postal Code _____

Mail to: FBCN, 307 – 1367 West Broadway, Vancouver, BC, V6H 4A9 or by e-mail to fbcn@telus.net

The above information will be used solely for the purpose of providing services to members or for the organization of the Federation's programs and activities. For more information about the FBCN visit the website at www.naturalists.bc.ca

Book reviews



Chasing Clayoquot: A Wilderness Almanac

– Reviewed by Carolyn Redl, PhD

David Pitt-Brooke,
287 pages, hardcover,
Raincoast Books 2004, \$34.95

Sometimes a nature book comes along that makes a person feel at peace and think that the earth is in capable hands, at least, as long as there are caring people around like author David Pitt-Brooke. I closed his book feeling like I'd been on a richly meaningful, life-affirming retreat. For a miraculous time, I was immersed in a lush garden and carried along with him on a year long soul-searching quest for "an expansion of the spirit" (6), sometimes by helicopter or kayak, sometimes on foot or on wheels.

The book is laid out in chapters corresponding to each month of our Gregorian year. Chapters begin with a title page containing black and white images: one is of a regional landscape typical for the month and the other, a Nuu-chah-nulth

mask representing the Sun and Moon, hence a connection to the months and seasons. The chapter is titled by the name of the month in both English and the language of the Nuu-chah-nulth people, the First Nations' people of Clayoquot Sound. Their name is translated literally into English. For example, October is simultaneously titled "Etsosimil (Rough Sea Moon)." Next is an abstract of the chapter, providing an overview of climate and typical human activities for the month in both pre-contact and today's worlds. The narrative of the chapter itself has another title, in the case of October, "Ring of Bright Water: Bears, Salmon and Wild Rivers" followed by an epigraph, "Hishuk Is Ts'awalk: Everything is One." The stage set, Pitt-Brooke makes each chapter a complex and evocative act where fauna, flora, earth, air, fire and water are the engaging, Academy-award winning players.

Admittedly academic, my description of the book's design serves to illustrate Pitt-Brooke's attention to detail. Reading each chapter, with its seemingly infinite remarkable subjects and events from the realms of history, climatology, anthropology, ecology or geology, is like sitting through a long Buddhist meditation where one finds more and more depth and breadth to each passing moment.

The content of each self-contained chapter is equally detailed and informative. I was particularly impressed by the details on climate and the earth's atmosphere in the chapter, "January." Pitt-Brooke describes the importance of gaining altitude in seeing greater distances: "From the beach, the horizon is less than ten nautical miles (18.5 kilometres) away; from 300 metres up, it is as far as 40 nautical miles (74 kilometres) and the ocean looks immense" (21). Straightforward language puts the difference clearly in perspective.

Equally interesting are his analogies. Gray whales, he tells us, "are very substantial animals at 15 metres and 30 tonnes—half again as long and twice as heavy as a fully loaded Greyhound bus" (84). About "the thin film over the surface of the planet" in which we humans can exist, he remarks, "Think of the layer of varnish on a wooden table. Now imagine weather, storms, all that ferocity, taking place *inside* the layer of varnish" (18). I can't help but smile at these unique comparisons.

Throughout, Pitt-Brooke is our solitary guide. If the book can be faulted for anything, it is the absence of other individuals on the landscape. At times, I longed for second opinions, for conversations with another observer, or some action between two humans. Nevertheless, other human characters would have distracted from the obvious focus.

Chasing Clayoquot is not without a political message. It is, however, subtly downplayed until the sight of clearcuts, for example, cuts chains loose and Pitt-Brooke denounces capitalist intervention in his bountiful landscape. Given that weeds in my garden beckon as I write, I certainly get the meaning of his comment, "Environmental activism is like weeding a garden: the job is never done" (280). Anyone who gloried in the activists' success saving Meares Island back in the 1980s but still sees

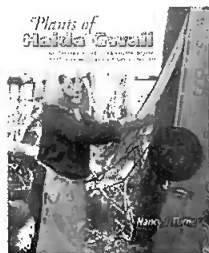


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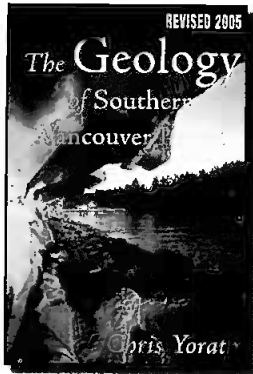
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clearcuts on Highway 4 to the Clayoquot knows this book is not solely about a place. You will, too.

With the passion of a great lover in the heat of his greatest love, however, David Pitt-Brooke describes the many aspects of his lovely landscape. It is indeed what he describes poetically as, "a heroic landscape, like something out of a Norse saga, but with that special indefinable flavour of Canada's Pacific coast" (36). *Chasing Clayoquot* is one of the best nature books I've ever read.



The Geology of Southern Vancouver Island

- Reviewed by Jeremy McCall
*Revised edition by Chris Yorath,
176 pages, paperback,
Harbour Publishing, \$24.95*

During the past few years I have noticed an increasing number of naturalists who are taking an interest in geology and its sister science geomorphology, the study of the physical features of the surface of the earth and their relation to its geological structures. More than one naturalist club has re-introduced geological field trips.

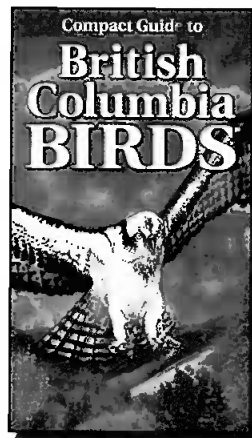
This book, a revision of a book originally published by the author and Hugh Nasmith in 2001, is tailor-made for the keen amateur geologist wishing to learn more about geology and apply it to a particular landscape with which he or she is familiar or can readily relate to.

The book is divided into two. The first part explains how Vancouver Island came to be formed in terms of the terrestrial processes which took place over the past 375 million years, including various periods of volcanic activity, sedimentation and subsequent erosion as various parts emerged from the ocean. For such a relatively small part of British Columbia it has been a remarkably complex evolution and the author makes it very clear that Vancouver Island is far from being a homogeneous piece of rock. The reader gains a good understanding of geological time, in terms of its eras and periods, as this evolution is followed. Complex and much studied as this development has been, it is interesting to note that there continues to be controversy about what happened between 100 and 50 million years ago. My own interest in Vancouver Island's geology was tweaked a year or so ago when Bill Merilees, during a slide show about the Island, said that it was originally located elsewhere in what is now the Pacific and moved to its present position over a period of millions of years. This book explains how that may have happened but there are two theories about when and how the Island and the rest of North America collided.

Understanding the first part of the book is aided by the inclusion of an excellent glossary explaining most geological terms that the reader is likely to come across.

The second part of the book uses the knowledge gained to provide fairly detailed descriptions of 26 locations on Southern Vancouver Island and the Gulf Islands having some geological significance. These range from Mt. Tolmie and Mt. Douglas to Botanical Beach Provincial Park, in the Greater Victoria Region, to Newcastle Island Provincial Marine Park and the Alberni Valley in South-Central Vancouver Island. It is by the use of these descriptions that the reader can gain a much better understanding of such intriguing features as schist and gneiss at Mt. Tolmie, a drumlin at James Island, a roche moutonne at Cattle Point, gabbro at Finlayson Point and argillite at Mount Tzuhalem. These descriptions are supplemented with black and white photos which are for the most part helpful. However I believe the addition of a few colour photos of some of the rock types, such as those used in the Peterson *Field Guide to Rocks and Minerals*, would have added considerably to understanding the different types of rock.

Other topics covered by this book include an explanation of glaciation and the various ice ages, some history of previous global warming periods and the origins of gas hydrates on the ocean floor. The reader will also learn that Vancouver Island and the Lower Mainland of B.C. are vulnerable to the highest risk of earthquakes in Canada, and experience an average of about 200 per year. The reader will also gain an understanding of what would cause "the big one" should it ever occur. The author has included an excellent list of additional resources to consult as well as other books and articles to read.



Compact Guide to British Columbia Birds

- Reviewed by Christine Scott
*Krista Kagume, Wayne Campbell
and Gregory Kennedy,
192 pages, softcover,
Lone Pine Publishing 2005, \$12.95*

It's totally impractical to lug along a ten pound reference tome on a nature walk, so when it comes to birding guidebooks, being small is a good

— continued on page 28

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thing; that being said, a new pocket guide to British Columbia birds could be the best little pocketbook currently on the market for the average recreational birdwatcher.

The *Compact Guide to British Columbia Birds*, is light as a feather, and at just 4.25 x 7.5-inches in size, jam-packed with all identifying information needed to learn 83 of the province's most abundant and noteworthy birds. Published by Lone Pine in March, 2005, this compact introductory guide is an appealing way for budding birdwatchers to learn about our feathered friends - and at an appealing price of just \$12.95.

I was amazed to learn that, "while female songbirds are not usually vocal, the female song sparrow will occasionally sing a tune of her own." And that "a hunting robin with its head tilted to the side isn't listening for prey, but rather is looking for movements in the soil, waiting for its next meal to come to the surface." Such fascinating anecdotes, describing character traits, fill this compact guide and bring the birds to life.

Each species warrants two colourful pages, key identification points, egg photos, range maps and detailed information on size, voice, status, habitat, nesting and similar birds.

The difference between diving birds, shorebirds and waterfowl tends to mystify beginning birders. This attractive book's colour-coded reference chart and quick guide to the bird groups quickly sorts out such confusion.

Our province boasts about 400 regularly-seen bird species and hundreds of excellent birdwatching areas. *The Compact Guide to British Columbia Birds* lists 44 preferred parks, reserves, sanctuaries, beaches, lagoons and recreation areas that are known as bird magnets, chosen with an emphasis on accessibility and year-round birding potential.

Budding ornithologists, students, and backyard birders alike should all enjoy the book's small, carry-along size, appealing design and straightforward approach.

Christine Scott is a nature columnist and member of the Comox Valley Naturalists Society.



The Behavior and Ecology of Pacific Salmon and Trout

- Reviewed by Elaine Golds

*Thomas P. Quinn,
378 pages, paperback,
UBC Press 2005, \$44.95*


With this book, Thomas Quinn, a fisheries biologist and professor at the University of Washington, has created a comprehensive account of the life histories of Pacific salmon and trout. Consisting of almost 400 pages and summarizing over 700 research studies, Quinn's book is

replete with many interesting details. For example, readers are not merely told that salmon use olfactory clues to locate their natal stream but are informed of the studies conducted over the past few decades that support this conclusion.

Quinn has organized his treatise around the major events in the life cycle of the various salmonid species rather than provide a species-by-species account. This assists the reader in understanding the commonalities between all Pacific salmon as well as species-specific behaviors. I especially enjoyed his chapter on the ecology of dead salmon and his final chapter where he touches on some conservation-related issues. While the focus of the book is on the *Oncorhynchus* genus (i.e., pink, chum, sockeye, coho, chinook, masu, rainbow and cutthroat), Quinn provides a very brief overview of arctic char, Dolly Varden, bull trout and lake trout for completion.

The book contains useful drawings, informative figures taken from the research studies and maps of the various watershed areas. The author covers most of the rivers that produce Pacific salmon ranging from California to Japan although much of the research summarized appears to have been conducted in American or Canadian waters. I was surprised to learn that both the Lena River in Asia and the Mackenzie River in the Arctic support chum. Quinn also touches on the evolution of Pacific salmon and points out that, given the relatively recent deglaciation (from a geologic perspective) of much of their present range, how straying as well as homing instincts have played a key role in their ability to colonize new habitats. His summary of human attempts to re-establish sockeye in formerly-utilized habitats such as the Upper Adams River and or introduce Pacific salmon into new areas such as New Zealand or the Great Lakes points out that we still have much to learn about salmon behavior.

While this book lacks a glossary that would benefit non-technical readers, the introductory chapter does an excellent job of defining salmonid terminology. Despite the thoroughness of this text, there are some topics I had hoped would be covered but were not. Given the breadth of the author's knowledge, some discussion of the impacts that global warming, artificial salmon production and salmon farming could have on wild Pacific salmon would have been most welcome. In general, Quinn does not play the role of salmon advocate but rather describes the scientific research in a dispassionate manner. Overall, he feels that salmon are robust species. Nonetheless, he does state that, "It is my view that their chances for recovery are good if we would only take our collective foot off their neck."

This is an excellent book that should probably be on the shelf (and often taken down for reference) at small volunteer-run hatcheries throughout B.C. As I read through it, I could see much information that would be useful to have at my fingertips when leading tours at our local salmon stream. While most naturalists probably won't have such an appetite for the many details in this book, it is certainly worth giving it a perusal at your local public library. 

South Chilcotins - FBCN Exploratory Hike

— by Bev Ramey

The FBCN exploratory hike to South Chilcotins (Spruce Lake Protected Area) was blessed with sunshine. Five backpackers hiked July 19-23 up Big Paradise Creek, over the divide into the two tributaries of Little Paradise Creek, and then onto the ridge looking into Big Creek Provincial Park and Graveyard Valley. The many ridge walk routes provided unfolding panoramic views, surpassed only by the alpine/sub-alpine flowers, the patterned ground of rock streams, plants and lichens, and pairs of horned lark.

FBCN Summer Camp 2006 in the Okanagan

FBCN camp to be held at Girl Guide Camp at Carrs Landing 10km north of Kelowna on Okanagan Lake

Sunday May 14 to Friday May 19, 2006.

Dormitory style accommodation 2 persons to a room.

Fee \$450.00 (\$500.00 for private room).

The fee includes all meals and snacks from Sunday evening to Friday lunch. Limit 26 persons. Activities include birding, botany, geology, short hikes, evening talks.

For further info contact Pat Westheuser @ 250-769-6605

or e-mail hughwest@shaw.ca.

Application forms with further details available Dec 1 on request.

Deposit \$200.00 due Jan 15 and remainder due April 1.

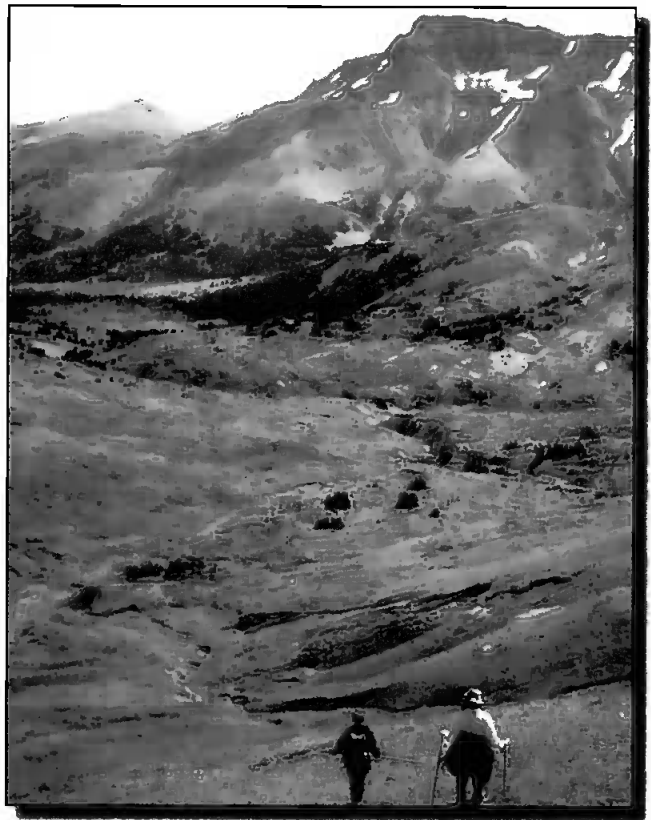


photo: David Shackleton



ATV photo by Ron Lacey

Solutions for a Sustainable Future: Towards an ORV Stewardship Strategy for British Columbia

Off Road Vehicle Licensing & Registration is under consideration in BC and your input is required. Please go to www.orvcoalitionbc.org to submit feedback



Okanagan Trail Riders Association



Federation of BC NATURALISTS



Grasslands Conservation Council of British Columbia

Creatures most beautiful: Flying flowers delight and amaze

— by Christine Scott

Blessed with brightness, symmetry, and flight, butterflies have captured the human imagination every bit as much as flowers and birds have. Country folk of very early times called them “butterflies” for the yellow colour of their wings, and that name is perhaps unsuitably used to embrace all day-flying Lepidoptera.

These beautiful animals have been on earth a long, long time; fossil records of butterflies date back 100 million years. British Columbia boasts the largest and most diverse number of butterflies in Canada, with a total known fauna of 187 species. On Vancouver Island, some 60-70 species have been recorded, but only about 20 are frequently encountered. As pollinators, butterflies dance from flower to flower blithely unaware of the valuable work they do for human gardeners; some flowers are only pollinated by butterflies.

The floating, fairy-like creatures delight and inspire us, but alas, live a pitifully short life – two to three weeks on average. Their adulthood is measured in weeks, so it's not surprising that adult butterflies have but one urgent goal – to find a mate and breed as quickly as possible. In their struggle to grow up, these animals must progress through an extraordinary life history involving four distinct stages: the simple egg; the gluttonous and fast-growing larva (caterpillar); the limbless, immobile pupa; and the active, wonderfully beautiful “perfect insect.” Their small bodies literally turn to mush and then reform while in the pupal or resting stage.

They taste with their feet and the tongue is a long sucking tube (proboscis) that coils up inside the head. They feed only on liquid, sometimes the juices of rotting fruit, human perspiration or even animal feces. Many of their young ones contain poisonous or distasteful juices that make birds vomit. Notoriously near-sighted despite huge compound eyes, butterflies

size one another up by movement and brightness, but probably not visual detail; males have been seen courting a dead leaf fluttering in the wind. Both male and female butterflies produce chemical mating cues called pheromones.

Aerodynamically, the wings are larger than necessary for staying afloat, which results in their erratic, seemingly helter-skelter flight. Tiny scales on butterfly wings, arranged in orderly rows that overlap, determine the patterns on the principle of a mosaic, but handling a butterfly's wings causes the powdery scales to come off, leaving the wings fragile.

As part of our wildlife heritage, butterflies are worth preserving. Claudia Copley, Entomology Collection Manager at the Royal British Columbia Museum, states, “Number one, in terms of butterfly conservation, is habitat preservation.” The message is: preserve as much land as possible in its natural state, or plant butterfly-friendly species.

“On their own property, most people work hard to attract adult butterflies with nectar plants, but to help the species, gardeners must grow the larval food plant,” Copley emphasizes.

Butterflies cannot eat solids, but homemade nectar, previously-frozen banana peels, or over-ripe fruit make wonderful “attractants” that will entice butterflies into your yard. Flower blossoms come and go, but ordinary sponges soaked in homemade nectar and suspended from branches will feed butterflies when flowers are few (orange or red sponges work best).



Where to see butterflies: Victoria Butterfly Gardens, Brentwood Bay, March 1 - October 31, Phone 1-877-722-0272; Butterfly World in Coombs, Highway 4-A near Parksville/Qualicum Beach, April - October, Phone 250-248-7026.

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Federation of BC Naturalists Fall Meeting 2005

September 29th – October 2nd

Lillooet, BC – Canyon to Alpine

Hosted by the Lillooet Naturalist Society

Thursday, September 29th	
6:00 – 8:30 pm	Registration – Lillooet Friendship Centre - 357 Main Street, or alternate venue (see *note on the registration form*). <i>Lillooet Slide Show</i> by local naturalist.
Friday September 30th	
7:00 – 8:30 am	Early morning birding with local birders. <i>Texas Creek and Spawning Channel areas</i>
8:00 – 9:00 am	Registration at Friendship Centre, 357 Main St., or alternate venue (see *note on the registration form*). Coffee & muffins available.
9:00 – 9:45 am	St' át' imc Welcoming / Fall Meeting Orientation
9:45 am to 12:00 pm Morning Field Trips & Workshops Departing from Friendship Centre or alternate venue (see *note on the registration form*).	
9:45 am	West Pavilion Historic Trail A moderate hike above the Fraser River on the west side.
10:00 am	Jade Walk & Old Bridge - Walk with George Vanderwolf, a knowledgeable local miner/historian discovering the history of jade in the Lillooet area. An option of the walk will be to visit the Old Bridge to view the bat housing project.
10 – 11:00 am	Bridge River: The response of riverine birds to controlled flow release from Terzaghi Dam 1998 – 2005 Ralph Heinrich and Russ Walton - Wildlife Biologists.
1:00 – 4:00 pm Afternoon Workshops Friendship Centre, or alternate venue (see *note on the registration form*).	
1:00 – 2:00 pm	St' át' imc Land and Resource Plan
2:00 – 4:00 pm	The Ecology of the Northern Spotted Owl, Western Screech-Owl & Flammulated Owl Biologists Jared Hobbs and Doris Hausleitner present their research and photos.
4:15 - 5:00 pm	Lichens of the Rainshadow - Kenneth G. Wright, Field Biologist
5:00 – 7:00 pm	Dinner and Happy Hour – on your own in downtown Lillooet.
7:00 – 9:00 pm	Local projects of the Lillooet Naturalist Society Evening Social at Miyazaki House, 643 Russell Lane Local non-alcoholic drinks and refreshments.

— continued on page 32

Saturday, October 1st	
7:00 - 8:45 am	Early birding with local birders in the Fountain Valley area.
8:00 – 9:00 am	Registration at Friendship Centre, 357 Main St. * (or alternate venue, see note).* Coffee and muffins available.
9:00 am – 12:00	Directors' Meeting - Lillooet Friendship Centre, 357 Main Street or alternate venue (see *note on the registration form*).
<i>Morning Field Trips & Workshops - (9:00 am - 12:00 pm)</i>	
9:00 am	Sallus Creek – Join local naturalists for a tour of local points of interest and an easy walk exploring the area. Depart from the Friendship Centre.
9:15 am	A Winter Paradise for the American Dipper - Kenneth G. Wright, Field Biologist <i>Hosted by the Lillooet Young Naturalist Club</i> <i>Open to the public at the Miyazaki House, 643 Russell Lane</i>
10:00 am	The Bear Necessities: Understanding Grizzly Bear Dynamics in the Lillooet Area to Promote Conservation - Lillooet Grizzly Bear Inventory Project <i>Hosted by Lillooet Young Naturalist Club</i> <i>Open to the public at the Miyazaki House, 643 Russell Lane</i> Tony Hamilton, Ministry of Water, Land and Air Protection, Biodiversity Branch Larry Casper, Lillooet Tribal Council, Natural Resources Coordinator Sue Senger, Landscape Consulting Corporation, Grizzly Bear Project Coordinator
12:00 to 1:00	Lunch at the Friendship Centre, or alternate venue (see *note on the registration form*).
1:00 - 4:00 pm	FBCN Fall Meeting - Lillooet Friendship Centre, or alternate venue (see *note on the registration form*).
1:00 - 4:00 pm	BC Raptor Rehabilitation Program with Steve Howard <i>Hosted by the Lillooet Young Naturalist Club</i> <i>Open to the public at the Miyazaki House, 643 Russell Lane</i>
6:00 pm	Dinner at the Lillooet Friendship Centre, or alternate venue (see *note on the registration form*).* Presentation - Steve Howard - Education Through Wildlife Rehabilitation
Sunday, October 2nd	
8:00 - 2:00 pm	Moderate hike to alpine - details at registration



Lillooet
Naturalist Society

Federation of BC Naturalists
Fall Meeting – Lillooet
September 29th – October 2nd,
2005

Hosted by the
Lillooet Naturalist Society



Federation of
B.C. Naturalists

REGISTRATION FORM

Name(s) _____

Club _____

Mailing Address _____

City _____ Postal Code _____

Telephone: (____) _____ Email: _____

OPTIONS (Check all that apply)

.Qty Each Total

Accommodation

See Lillooet 2005
Visitors' Guide, p. 23

Recommended:
Sturgeon Bay B&B
250-256-7792

Fraser Cove
Campground
250-256-0142

Mile 0 Motel:
(preferred rates for
FBCN members)
1-888-766-4530

4 Pines Motel
1-800-753-2576

BC Hydro
Campground
(Lovely, basic, free)

Cayoosh Campground
250-256-4180

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|--|-------|---------|-------|
| <input type="checkbox"/> Full Registration by August 26 th
(includes workshops, field trips, refreshments,
Friday evening social, Saturday lunch <i>and</i> dinner) | _____ | \$80.00 | _____ |
| <input type="checkbox"/> Full Registration after August 26 th | _____ | \$90.00 | _____ |
| <input type="checkbox"/> Friday only, includes evening social | _____ | \$30.00 | _____ |
| <input type="checkbox"/> Saturday (includes workshops and lunch) | _____ | \$35.00 | _____ |
| <input type="checkbox"/> Saturday Dinner | _____ | \$25.00 | _____ |

Special Diet (Please specify) _____

Please indicate if you are interested in the Alpine Hike on Sunday _____

Would you like a Lillooet Visitor 2005 Guide mailed to you? _____

Please make cheques payable to: Lillooet Naturalist Society

Mail forms and payment to: **Lillooet Naturalist Society**
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Lillooet, BC V0K 1V0

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Questions? Vivian Birch-Jones or Glenda Newsted
vivianbj@telus.net gnewsted@hotmail.com
(250) 256-4062 (250) 256-7549

note – BC Hydro campground will be open - free basic campground, lovely site –otherwise see Visitors' Guide

** Please note re alternate venue: Due to the large number of members who have registered for the FGM, certain events will now take place at the Lillooet Recreation Centre, 930 Main Street. Please check location for all events.**

Federation of BC Naturalists

Honorary President Dr. Ian McTaggart-Cowan

	Member	Tel	Fax	Email
President	Jeremy McCall	604-876-3313	604-876-3313	jmccall@helix.net
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Northern B.C. Regional Coordinator	Susan Haddow	250-782-3892		brhaddow@pris.bc.ca
Vancouver Island Regional Coordinator	Betty Collins	250-752-4744		collinsbandj@shaw.ca
Thompson Okanagan Regional Coordinator	Ed McDonald	250-835-8802		mcdonald@jetstream.net
Parks and Protected Areas Coordinator	Eva Durance	250-492-0158		edurance@vip.net
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Lower Mainland

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Bowen Nature Club	Billie Gowans	Box J18, 1455 Upland Trail, Bowen Island V0N 1G0	604-947-2452	604-947-0141	gowans@sfu.ca
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Central Valley Naturalists	Kathy Wilkinson	2402 Mountain Dr. Abbotsford V3G 1E7	604-854-3203	604-854-3203	kwilkins2@shaw.ca
Chilliwack Field Naturalist	Rose Garlinski	6130 Glengarry Dr. Sardis V2R2H9	604-858-0402		rosegrows@uniserve.com
Delta Naturalists' Society	Terry McComas	13691-113th Ave. Surrey V6R 2J2	604-585-4416		
Friends of Semiahmoo Bay Society, White Rock	Margaret Cuthbert	15425 Columbia Ave, White Rock V4B 1K1	604-536-3552		blueheron@3web.net
Langley Field Naturalist Society	Joan Wilmshurst	Box 56052 Valley Centre PO, Langley V3A 8B3	604-534-4314		ronald_wilmshurst@telus.net
Little Campbell Watershed Society	Margaret Cuthbert	15425 Columbia Ave, White Rock V4B 1K1	604-536-2636		blueheron@3web.net
Pender Harbour & District Wildlife Society	Dale Jackson	Box 220, Madeira Park V0N 2H0	604-883-9853		Dale.Jackson@dccnet.com
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Squamish Environmental Conservation Society	Meg Fellowes	Box 2676, Squamish V0N 3G0	604-898-5093		megf@shaw.ca
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Vancouver Natural History Society	Bert Brink	4135 W16th Ave, Vancouver	604-224-7078	604-224-7073	bertbrink@shaw.ca
Vancouver Natural History Society	George Bangham	1039 Scantlings, Vancouver V6H 3N9	604-731-7669		gbangham@hotmail.com
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White Rock & Surrey Naturalists Society	Viveka Ohman	Box 75004, White Rock V4B 5L3	604-531-3001		ohmanv@inspection.gc.ca

Northern BC

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Prince George Naturalist Club	Nancy Muirhead	Box 1092, Stn A, Prince George V2L 4V2	250-564-8432		nancy_muirhead@bctel.ca
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West Kootenay Naturalists' Association	Len Dunsford	572 Vallhalla Rd, Nelson V1L 6M6	250-354-4325		lend@shaw.ca

Thompson-Shuswap-Okanagan

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North Okanagan Naturalists' Club	Eirin Nelson	9730 Park Lane, Vernon V1B 3E5			eenelson@telus.net
North Shuswap Naturalist Club	Alfred Bawtree	Site 16, Comp, 24, RR1, Celsita V0E 1L0	250-955-2155	250-955-2185	
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Shuswap Naturalists Club	Ed McDonald	Box 1076, Salmon Arm V1E 4P2	250-835-8802		modonald@jetstream.net
Similkameen Naturalist Club	Lee McFadyen	RR1, C5 S33, Cawston V0X 1C0	250-499-5404		mariposaorg@hotmail.com
South Okanagan Naturalist Club	Frank Sigurdson	RR1, S32, C84, Okanagan Falls V0N 1R0	250-497-6428		fs7@shaw.ca
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Vancouver Island

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Pender Island Field Naturalists	Sylvia Pincott	1102 Stanley Point Dr, Pender Island V0N 2M1	250-629-6797		skpincott@gouffislang.com
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Victoria Natural History Society	Tom Gillespie	Box 5220, Stn B, Victoria V8R 6N4	250-361-1694	250-361-1694	twg@horizonnet.ca
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Affiliate Groups

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Boundary Bay Conservation Committee, Delta, 604-943-6406
Biology Coop. Education Coordinators, Univ. of Victoria
Burns Bog Conservation Society, Delta, 604-572-0373
Charlie Lake Conservation Society, Charlie Lake
Creston Valley Wildlife Mgt. Area Society, Creston, 250-428-3260
Comox Valley Project Watershed, Courtenay
Evergreen Foundation, Vancouver, 604-689-0766
Federation of BC Mountain Clubs, Vancouver, 604-878-7007
Francis Pt. Marine Park Society, Madeira Park, 604-883-2730
Friends of Caren, Madeira Park, www.friendsofcaren.org
Friends of Cortes Island Society, Whaleton, 250-935-0087
Friends of Cypress Provincial Park Society, West Vancouver, 604-922-7949
Friends of the Stikine, Gibsons
Garry Oak Meadow Preservation Society, Victoria
Grassy Plains School, Burns Lake
The Land Conservancy of BC, Victoria 250-479-8053, Vancouver 604-733-2313
Land Trust Alliance of BC, Salt Spring Island, 250-538-0112

Lighthouse Park Preservation Society, West Vancouver, 604-921-3382
Macdonald Wood Park Society, Comox, 250-339-4370
Native Plant Society of BC, Vancouver, 604-255-5719
Natural History Soc. of Nfld & Labrador, St. Johns, Nfld
Nature Saskatchewan, Regina, SK, 306-713-6698
Nature Trust of BC, North Vancouver, 604-924-9771
Okanagan Similkameen Parks Society, Summerland, 250-494-8996
Riverview Horticultural Society, Coquitlam, 604-290-9910
Sargeant Bay Society, Sechelt
Save Our Parkland Association, Vancouver, 604-224-7027
Society Promoting Environmental Conservation (SPEC), Vancouver, 604-736-7732
Soil & Water Conservation Society, Langley, 604-888-7511
Somenos Marsh Wildlife Society, Duncan
Stanley Park Ecology Association, Vancouver, 604-257-6908
Students for Environmental Awareness, Camosun College, Victoria, 250-370-3139
Swan Lake/Christmas Hill Nature Centre, Victoria, 250-479-0811
Trails BC, Vancouver, 604-737-3188
West Vancouver Streamkeepers, Vancouver, 604-984-9311
Wild Bird Trust of BC, Vancouver, 604-921-8253
World Wildlife Fund, 1-800-26PANDA
North Shore Black Bear Network, North Vancouver, 604-980-9464

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(Pres, Sunshine Coast Natural History Society, Past Pres. BC Field Ornithologists)

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