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B.C. Naturalist
DEADLINES

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Lichens and the 1% Naturalists

It is said that the Duke of Cumberland once complimented the British playwright Samuel Foote with the following bouquet: "Mr. Foote, I swallow all the good things you say".

"Indeed, sir", replied Mr. Foote, "then Your Royal Highness has an excellent digestion, for you never bring any of it up again."

Lately I have found myself nursing a similar regard toward the readers of this column.

It isn't that I feel ignored or overlooked. Not at all. To judge from the two letters of encouragement I've received over the past nine years, **THE ENLICHENMENT** has become a veritable cornerstone of the naturalist tradition in British Columbia. No less telling, I suspect, is the general absence of letter bombs in my mailbox.

My complaint, then, is not that I'm unread. It's that I'm unheard.

The message my writings have tried to convey is that naturalists ought to pay closer attention to the little things of this world - among them, of course, the lichens. Over the years I've repeated this admonition more often than a millipede has knee joints, yet it appears to have fallen on deaf ears. Then B.C. naturalist community would seem to be no more enriched in 1993 than it was in 1984, when **THE ENLICHENMENT** premiered.

A thumb-through of the last ten volumes of the **B.C. Naturalist** confirms this view. The major preoccupation of British Columbia's naturalist community today remains very much what they were a decade ago: birds, wildflowers, birds, wildlands, birds, weeds, birds, whales, and birds, birds, birds. Our naturalist perspective has changed very little in ten years.

During the same interval, however, our societal values have changed rather a lot. Somehow, for example, old growth forests aren't quite as decadent as they used to be. Nor are varmints, on the whole, as varminty. Even the sacred term "wildlife" has been expanded beyond the 1% of animals you can eat, to embrace the 99% of plants and animals (including wolf spiders, slime molds, and liverworts) utterly unworthy of the privilege. Will the meek finally inherit the earth? I doubt it, but at least it's encouraging to see them invited to the reading of the will.

Given this tremendous broadening of conservation mandates, one wonders why naturalists haven't similarly broadened their knowledge mandates? Naturalists, by definition, are caring knowers. But where, I ask, are the caring knowers of wolf spiders and ladybugs, of slime molds, and lichen crusts, of liverworts and freshwater algae? Where are the local authorities on bracket fungi,

and pondweed, and geometrid moths? The answer is simple: they're out watching birds.

In 1993, it is no longer enough for 99% of British Columbia's naturalists to focus their attention on 1% of the province's biodiversity. The time has come for the 1% naturalists to become, collectively at least, 100% naturalists.

ANOTHER GOLDEN MOULDIE

Q. How do you tell the difference between soil lichens and 1% naturalists?

A. Soil lichens cover more ground.

A few months ago I was cogitating on this problem when it occurred to me that I possibly have it all backwards. What if (said I to myself) the message really has gotten through? What if B.C.'s naturalists really are aware of the sweet, uncollected discoveries inherent in the little things around them? What if the naturalist community is now as a bee hive in early spring, humming with desire to explore the paths less traveled by? What if all that's needed is somebody to open the aviary door?

Here, then, is a challenge to the Federation of British Columbia Naturalists: let's find a way to open the door to the other 99% of natural history. To begin with, I suppose, there should be a stock-taking of minority expertise and minority interest. Let there also be a trading of addresses and commitments, as well as a general promoting of hand lenses, dissecting microscopes, field guides and journal subscriptions. We also need a setting up of field courses, field studies, special projects, lecture tours, and recognition awards not yet imagined. And finally, and perhaps the most important of all, give us **Cordillera**: our very own naturalist voice and journal of naturalist undertaking.

Is anybody listening? If not, I suppose I'll continue to report on the delights and dilemmas of lichens study in British Columbia, and leave it at that. But if there really is a desire to open doors and probe deeper, I'm prepared to do my part to make it happen. How about a series of lichen field courses, to begin with? As a trial run, the first course is already slated for Labour Day weekend; check the details on page 19 on this issue.

Let me leave you with a final pregnant thought: "Though birds deserve some of our attention all of the time, and all of our attention some of the time, they patently don't deserve all of our attention all of the time. See you on the ski hill." Abraham Lichen.

SPECIAL NOTE FROM TREVOR:

Trevor Goward is preparing a series of popular articles and books on lichens, and would like to receive crisp, clear, well appointed slides and colour photos for use as illustrations. Terms negotiable. Please write to Trevor at Edgewood Blue, Box 131, Clearwater, B.C. V0E 1N0

THE TCHAIKAZAN

The Tchaikazan Valley is situated in the heart of the proposed Chilko Lake Provincial Park. It lies between Chilko Lake to the West, and Taseko Lakes to the East. Access can be a problem. Good vehicle clearance is essential and four wheel drive is necessary in wet weather. We used a four wheel drive Suburban, which accommodated our party of 6 people and our gear comfortably. The group comprised Sandra Kinsey, Laird Law, Judy Leykauf, Joy Miller, Mike Nash and Doug Perkins, all from Prince George.

Getting There

The drive west out of Williams Lake gave us a good impression of BC's Interior Plateau, particularly where the highway crossed the Fraser Valley. Turning off the paved road at Hanceville we headed in a south westerly direction for 70 kilometres to reach the Taseko River at Davidson Bridge. Continuing for another 14 kilometres, we entered the Elkin Valley under the imposing shadow of Mount Tatlow. Just before the road crossed Elkin Creek, we turned south onto an unmarked track bearing the grand name of the Lord River Mining Road.

After 25 kilometres of driving in low gear, we rounded the east end of the Mount Tatlow ridge and got our first view down Taseko Lakes. We headed southwest along the Gunn Valley, crossing several road washouts and vehicle fords. Gunn Valley contains three lakes. The second is Tuzcha Lake, situated at the head of the Yohetta Valley, where we found a good campsite. On arrival we were greeted by a symphony of 13 loons, comprising one resident and 12 migratory birds. During the night, they were joined by the sound of distant wolves and the bells of the Outfitter's horses on the far side of the lake. The campsite was a great place to start and end a hike into the Tchaikazan Valley, and despite its elevation, Tuzcha Lake had a surprisingly warm temperature in August.

Our plan was to spend the whole week in the Tchaikazan Valley: to experience it thoroughly. Others have followed the loop from the Tchaikazan, across Spectrum Pass and down the Yohetta Valley. Alternately, 'Yohetta Wilderness Adventures' will fly you into their lodge on the southeast

end of Tuzcha Lake and take you through the area on horseback.

The High Road

Tuzcha Lake is only 10 kilometres from the end of the Tchaikazan Valley, and the driving so far hadn't been too bad. From there we had two choices. The 'low road' crossed a 30 metre wide vehicle ford and proceeded along the east shore of Fishem Lake to within 3 kilometres of the Tchaikazan Valley. The ford has a good base, but the water depth can vary from 30 centimetres to over a meter. We elected instead to follow the 'high road' on the west side of Fishem Lake that leads to the start of the Tchaikazan Valley.



High above Fishem Lake, we had been forewarned that the road had slid away in two places and was impassable. The first was the more fearsome looking of the two, but in reality it caused little problem for the Suburban. The second looked innocuous, but was more dangerous. We watched from a safe vantage point as Laird inched his vehicle downhill with the outside wheels on the soft edge of a steep slope. His inside wheels were cutting into the bank; one slight mistake or

moment of indecision would spell disaster. The return drive in a week's time would be uphill, adding more than a hint of uncertainty to our venture. All the same, with 21 to 27 kilograms packs to carry, we were pleased to be taken to the head of the valley and we quickly pushed the rest to the back of our minds.

The Valley

We were now fully committed, and for the next few days we would be dependent on our own resources. In this primitive setting we performed the ceremony of cooking, as Alexander MacKenzie referred to it 200 years before, crouched around a fire set in a small dirt trench. We were days from help if we had a serious problem. By putting

cont. page 6

Photo: Upper Tchaikazan Valley

ourselves in a situation so removed from our everyday experience, we would return to civilization after only a week as refreshed as if we had spent a month in a 'normal' vacation setting.

The valley is over 20 kilometres long, and is surrounded for most of its length by glaciers and ice fields. The most populous of these are at the southwest end of the valley. The 1:50,000 topographical map (92-O/4: Tchaikazan River) shows many geographical features with tantalizing names. Glaciers reaching down into the valley are the Oreamnos, Miserable, Friendly, Rim, Monmouth, Tchaikazan, and Hourglass Glaciers. Higher up, between Pathetic Glacier and Discord Glacier, I wondered about the history of the Marmot Towers: Deviation Peak, Desperation Peak and Inspiration Peak. No less provoking are the names of the three adjacent peaks called The Beauty, The Skunk and The Beast.

The valley floor is at around 1,675 metres elevation and



the surrounding peaks range up to nearly 3,000 metres. There is a good horse trail for most of the length of the valley along the northwest side of the Tchaikazan River. A side trail leads up to Spectrum Pass along the northeast side of Spectrum Creek.

The valley is mostly wooded. Consequently, good campsites are rare, despite an abundance of potable streams. The first campsite is about 10 kilometres into the valley, and this is where we spent the first night amid the obvious sign of the Outfitter's horses. The next day, we moved another 8 kilometres up the valley and established our final base camp in a wide, pristine meadow with good views all around. Across Spectrum Creek, the valley opens into marsh flats for a few kilometres, with a few dry areas among stands of small pine trees. The site with the best water supply caused a heated debate over the fresh Grizzly Bear sign left by a large sow with cubs in some nearby cow parsnip. The final vote of four in favor of

photo: Glaciers above Spectrum Pass

staying was not enough to carry the day, since that left two with a high discomfort level. We retreated 500 metres down the trail to our alternate choice, and the first site was later used as a secluded bathing place by some of the group.

Spectrum Pass

We spent the next two days exploring the rugged alpine of the Spectrum Pass area. This is well named and is similar to the colorful mountains of the Rainbow Range in Tweedsmuir Provincial Park. During this time, we saw several Mule Deer, lots of hoary marmots, two mountain goats, two immature Golden Eagles and a Peregrine Falcon. Bushwhacking was easy as the wooded hillsides were crisscrossed with game trails, used primarily by deer. In the evenings, we were treated to the sight of deer parading along the far shore of the Tchaikazan River or browsing in the meadows high above us. We had been forewarned to expect lots of grizzly sign in the Spectrum Pass area, but there was very little. In the valley, we saw a small amount of fresh grizzly and some recent wolf sign. Two of our group, Sandra and Laird took detailed field notes of birds seen. Apart from the aforementioned, some other highlights were a Bohemian Waxwing, several Northern Harriers and many Clark's Nutcrackers.

Return

The last day was spent wandering up to the head of the valley. It was supposed to be a rest day, but after bushwhacking for two hours up to the toe of Oreamnos Glacier, it seemed anything but that.

With lighter packs, we hiked out in one day and spent our final night getting re acclimatized to the 'outside' at the Tuzcha Lake campsite. The weather had been great all week; we hadn't encountered any people, and we hardly had to use four wheel drive to gain access.

If you go, contact BC Parks' Regional Office in Prince George or the Forest Service District Office in Alexis Creek for up to date access information.

Article and photographs by
Mike Nash
Prince George

FRONT COVER

Another delightful illustration by Karen Wiebe. This drawing reminds us that spring can't be far away. Can't you hear its musical song - giving a clue to its name - the Song Sparrow.

This is Karen's third *B.C. Naturalist* cover over the past two years and we still have one more in the file. Previous covers were the Northern Hawk Owl and the American Kestrel.

NEWS FROM ICBP - CANADA

The International Council for Bird Preservation (ICBP) turned 70 years old last June. The ICBP is a world-wide organization devoted to the conservation of wild birds. It has been very active in many parts of the world in the conservation of birds and their habitats. They publish several technical publications on the status and conservation of birds and produce **World Birdwatch** Magazine which is full of international projects and news items on birds. I represent the issues in British Columbia through the ICBP-Canada president, Dr. Martin McNicoll in Toronto. Dr. McNicoll's recent update of ICBP issues has several items of interest to **BC Naturalist** readers.

Birdbath Warmers

Recent studies at Cornell University Laboratory of Ornithology in New York State caution against the use of glycerine to keep water from freezing in bird baths. Studies indicated that the glycerine can cause hyperglycemia in birds that drink at the bath.

Bird Feeders

A recent analysis of project FeederWatch and breeding Bird Survey data by Erica Dunn suggests that Blue Jays, European Starlings, Brown-headed Cowbirds and House Sparrows, which are thought to be a threat to other birds, are declining in number.

Driftnets

The UN has proposed a moratorium on the use of driftnets while the US is considering a ban in their waters and Japan has proposed a two-thirds reduction in the number of vessels permitted to use the nets.

Fenitrothion

Agriculture Canada is reviewing the use of the pesticide in New Brunswick forests because of the environmental effects, including its effect on bird populations.

Oil Spills

The total estimated number of birds killed by the **Exxon Valdez** oil spill in Alaska is 100,000 to 300,000 birds, 74% of which were Murres.

Window Kills

A recent survey of Project Feeder Watch indicated that 9% of feeders recorded window kills during winter 1989-90 with an average of 2.0 birds killed per site. An estimated 97.6-975.6 million birds are killed annually from collisions with windows in the USA alone! Black nets strung near windows is effective at reducing bird strikes.

Latin America

ICBP-Canada has participated with the Canadian Wildlife Service in Latin America in teaching banding skills in Cuba. Other projects are underway to help promote conservation of birds that spend the summer in Canada and winter in Latin America.

Declines of Songbird Numbers

There has been a lot of information suggesting that North American songbird populations have declined (and some increases). Recent radar studies indicate a 50% drop in the number of North American migrants crossing the Gulf of Mexico in the 1980s compared to the 1960s.

Ramsar

Capsule accounts of Canada's first 30 Ramsar sites (wetlands of international significance) are available from the Canadian Wildlife Service in Delta and Ottawa.

Bird Trends

The CWS has begun publishing 'Bird Trends' to keep track of bird numbers in Canada. The first volume discusses the Breeding Bird Survey, bird banding, Project Feeder Watch, Maritimes Shorebird Surveys and a review of bird trends, among other topics. Write: CWS, Bird Banding Office, Ottawa, K1A 0H3 to receive your copy.

Selected Species accounts

Western Grebes wintering in Puget Sound have been found to contain high levels of arsenic, chlordanes, DDE, mercury and PCBs. The Puget Sound and Strait of Georgia region has very large winter populations of this species. Some good news is that the Aleutian race of Canada Goose, *Branta canadensis leucopareia*, increased from 200-300 birds in 1967 to over 5,000 individuals in 1989 resulting in a change in status from Endangered to Threatened. Although Sharp-shinned Hawks passing Cape May, New Jersey seem to have declined by about 40,000 birds, Red-tails in southern BC on Breeding Bird Surveys indicate an increase between 1973 and 1991. Christmas Bird Count data show the same trend. Ring-necked Pheasants and Ruffed Grouse have declined in southern BC according to Breeding Bird Surveys. There are an estimated 29,000 pairs of Glaucous-winged Gulls nesting in BC of which nearly half are in or near the Strait of Georgia. This species has increased by about 2-3% annually for the past few decades. About 74% and 56% of the world's Ancient Murrelet and Rhinoceros Auklet populations breed in BC. A most surprising change is a decline in the numbers of European Starlings in Ontario, Quebec and perhaps southern BC. Warbling Vireos increased in southern BC on Breeding Bird Surveys between 1973 and 1991 but Red-eyed Vireos declined there. Many warblers have declined in parts of Canada in breeding Bird Surveys but only the Yellow showed declines in BC. Lincoln's Sparrows, Brown-headed Cowbirds and House Finches increased in BC.

To join ICBP and receive **World Birdwatch** magazine write to their office: PO Box 57232, Washington DC, 20037-7242, USA or 32 Cambridge Road, Girton, Cambridge, CB3 0PJ, UK.

Rob Butler

OKANAGAN MOUNTAIN PROVINCIAL PARK BIRD COUNT

The first annual bird count for Okanagan Mountain Provincial Park will be hosted by the Central Okanagan Naturalists Club, with the help of the South Okanagan Naturalists Club and BC Parks.

The event will take place on Saturday, May 29, 1993 beginning at 8:00 a.m. Information packages can be picked up from 2319 Pandosy Street in Kelowna on Friday, May 28th from 4:00 p.m. to 9:00 p.m. or on Saturday, May 29th from 6:00 a.m. to 7:30 a.m. Those who wish to 'bird' at the south end of park from Penticton may pick up the packages from Eva Durance at 492-3158.

Following the count, we will gather at approximately 5:30 p.m. at the BC Parks District office on Highway 97 near Summerland for the tally and a barbecue. Cost of the BBQ is \$5.00.

For those able to arrive early, we invite you to join us for our regular Thursday morning birding in the Kelowna area on May 27th. On Friday, May 28th we offer an all-day birding trip: early birding from 6:00 a.m. to 8:00 a.m., a breakfast break, then meet again at 9:30 a.m. for a field trip in and around Kelowna. Bring your lunch. There will also be guided birding on Sunday, May 30th on the west side of Lake Okanagan.

For all field trips, meet under the clock at Mission Park Shopping Centre, 3151 Lakeshore Road in Kelowna.

You will be responsible for your own meals and accommodation. May we suggest that you refer to the **BC Accommodation Guide** (available free at Travel Infocentres) and book at a motel or camp ground on Lakeshore Road. All activities will leave from that vicinity.

For more information, write to Eileen Dillabough, 2319 Pandosy Street, Kelowna, B.C. V1Y 1T4 or phone her at 862 8254, or Denise Brownlee at 762 3339, or Brenda Thomson at 764 4296.

TOOLS AND MECHANISMS FOR PRESERVING GREEN SPACE Publication now available

The proceedings from the Land For Nature Forum held in Burnaby on March 27, 1992 are now available from the FBCN. Cost \$15.00 includes GST and mailing. Please make cheques payable to FBCN.

BUSHTITS

May and June are months when the bushtits hatch their young; From shrubs, trees and bushes, their sack-like nests are hung; Crafted like jewels and splendiferous icons, artistically weaved From spiders webs, moss and lichens, lovingly devised, cunningly Disguised, not easy to find, and precious as gold when stumbled on.

Ornithologists tell us that two or even three pairs will sometimes Join in building an extra-long nest, then share space inside For laying and hatching of eggs; one can imagine the bulging, Burgeoning movement of moss, with a sackful of nestling Heaving and pushing on the soft, fragile content of walls.

Measuring anywhere from nineteen to forty centimeters in length; Nests nonetheless are resilient and consist of intangible strength; Some have a door-stoop though most have only a small entrance hole

From which twittering sounds of greeting can be heard from both Providers and brood, when parents arrive with portions of food.

One has to be sharp to detect the movement of bushtit flocks; Infiltrating from bush to tree to shrub, being their modus operandi;

Their careful combing of foliage for invertebrates is a natural bent;

And, while their dipsy-doodle, undulating flight has a whimsical flare.

When they've gone one thinks, "How mysterious and delightful they were" !

H.C. Craven
Burnaby

ENDANGERED SPECIES PROCEEDINGS NOW AVAILABLE

The proceedings from the Endangered Species Workshop are now available through the FBCN office.

Community Action for Endangered Species September 28-29, 1991

Editor: Susanne Rautio

Cosponsored by:
Federation of B.C. Naturalists and
Northwest Wildlife Preservation Society

Cost:
\$15.00 plus \$2.00 handling and postage.
(Cheques payable to FBCN)

OVER THE EDITOR'S DESK

Loosestrife

Thank you for your letter of October 9, 1992, regarding the weed purple loosestrife.

Upon the recommendation of the British Columbia Plant Protection Advisory Council, my Ministry has formally endorsed release to British Columbia of the three biological control agents. As you know, the agents are now being propagated in Agriculture Canada facilities in Lethbridge, Alberta and some will be released to British Columbia as soon as sufficient quantities are available.

Inclusion of a weed on the noxious weeds list of the weed control regulation pursuant to the **Weed Control Act** imparts a responsibility on the legal land occupier to control the target weed. Legislated enforcement of designated noxious weeds must be accompanied by an effective control strategy. As safe and effective control methods for loosestrife have yet to be developed, we are concerned that such a declaration may result in costly and time consuming efforts that would have little long term effect and may result in additional environmental damage.

Bill Barlee, Minister
Ministry of Agriculture, Fisheries
and Food

Cordillera Comment

Re: **B.C. Naturalist** Vol. 31 No. 1.
Jan./Feb. 1993 Page 18

Cordillera indeed commonly **REFERS** to a chain of mountains but it **MEANS** (Websters) "From O. Sp. cordilla, cordiella, dim. of cuerda = a rope, string. From L. chorda, a cord, string first applied to the ranges of South America, the Andes Mountains and their continuation in Mexico.

Y. si, hablo estavol.

Dr. Alan McGugan
Cobble Hill

Wood Ducks

I am responding to Rob Butlers Wood Duck article in the November issue of **B.C. Naturalist**.

Mr. Butler claims that Wood Duck (*Aix sponsa*) numbers fell in the mid-70s corresponding to a decline in the number of maintained nest boxes and that these numbers have not increased since then.

I find these claims difficult to believe. My experience has shown that the Wood Duck is currently a rather abundant bird, especially in Burnaby Lake Regional Park and Stanley Park. As well, the 1990 Vancouver Christmas Bird Count recorded 154 Wood Ducks. However, in light of the recent surge in Wood Duck numbers, there may well be some other factor that has been limiting the population.

Mr. Butler's article cites European Starlings (*Sturnus vulgaris*) as being the main competitor for Wood Duck nesting sites. The 1990 Vancouver Christmas Bird Count that found so many Wood Ducks, recorded an unusually low number of European Starlings (15,110). I believe the Wood Duck population may be responding to the amount of competition for both natural and artificial nest sites rather than to the actual number of sites.

Ron Membery
Vancouver

A Response to Mr. Membery

I am pleased that Mr. Membery has read my article *The Wood Duck in the Lower Fraser Valley* (**B.C. Naturalist** 30(6):11) but I am afraid he misunderstood part of the article. I wrote that Wood Duck numbers "leveled off in the mid-1970s" and not "fell" as Mr. Membery states in his letter. I agree with Mr. Membery that the Wood Duck remains a rather abundant bird in parts of the Lower Mainland. However, historical accounts indicate that the Wood Duck was much more abundant in the past. For example, Munro and Cowan (1947) said that

"in some localities it is the most abundant duck".

The point of my article was that the Wood Duck population increased shortly after nest boxes were installed and that with more boxes the species might become more plentiful. How many Wood Ducks the Lower Fraser Valley can support is anyone's guess.

I caution reading too much into single Christmas Bird Counts. The record high count in 1990 might indicate that Wood Duck numbers are increasing, as Mr. Membery contends, but it might also be the result of more observers or more effort being spent in Wood Duck habitats. This bias can be reduced by dividing the numbers of ducks by some measure to look for a consistent trend over many years. If numbers are indeed increasing, then I would be very interested in discovering why.

Lastly, Mr. Membery pointed out that the large number of Wood Ducks occurred in a year of unusually low numbers of starlings. This supports my observation that starlings were the major competitor of nest sites.

Rob Butler

FRASER BASIN MANAGEMENT PROGRAM - OPEN HOUSES

The Open House is an informal opportunity for you to meet and speak with the Chairman and Board Members from your region, hear about the Board and the Fraser Basin Management Program, and provide you views on the future of the Fraser Basin and the Management Program. Time: from 1:00 - 5:00 p.m. and 6:00 - 10:00 p.m. Check your paper for details. Quesnel- Mar. 11; Kamloops - Mar. 15; Lillooet- Mar. 15; Abbotsford-Mar. 22; Richmond-Mar. 23rd. Phone 660 1177 for details.

1993
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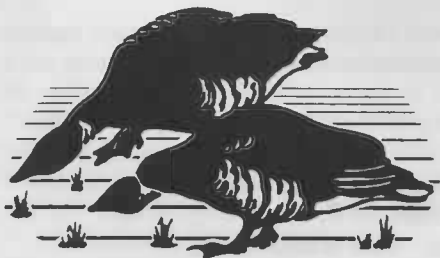
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For information and registration please contact:

Sutil Lodge

637 Southwinds Road, Montague Harbour,
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telephone: 539 2930 fax: 539 5390

RAVEN TALK

Your Federation in Action: information, committee reports, projects and concerns

PRESIDENT'S MESSAGE

I hope that you will all take the time, if you haven't already, to read **THE ENLICHENMENT** (Page 4). Trevor asks some very interesting questions - ones that each of us should sit and ponder. That is if we truly want to be called - Naturalists.

Today we talk in terms of a holistic approach to nature education, appreciation and conservation. We no longer try to save the species (be it bird, mammals or lichen) but, we now look at a much broader contest - the habitat that the species lives in and all its associated "friends".

I would hope that each and every naturalist - who wants to be called a naturalist - would look to broaden their horizons this year. To learn more about their natural world and all the living things. To become a spokesperson for the natural world and to conserving and enhancing our communities. And, to educate as many people as possible about why conservation is so important for everyone (not just the people) on this planet.

I know this sounds like a mighty ambitious goal - but it is not impossible, and yes it will take determination, persistence and the passing on of your great knowledge and understanding to all of those around you. Remember the Federation's motto "To know the outdoor and keep it worth knowing" or as we interpret this saying generally - "through education comes conservation."

Like the TV ad says "just do it!".

Jude Grass

Are you coming to the AGM?

Please give serious consideration to attending this years AGM in Vancouver From May 13 -16, 1993. Details are on Page 28 - 29.

In addition to the usually field trips, early morning birding and late night owling and the banquet, there is a workshop of the Fraser River Basin Management Program on Friday afternoon, a social with awards presentations on Friday evening, and a full day of business - important business, about your Federation at the AGM. Come and participate in making your Federation work.

JFG

EDITOR'S MESSAGE

It is always a very risky thing for an Editor to promise articles in the next edition. This Editor is blushing profusely. If you have thumbed through will notice that this is a very FULL edition. Unfortunately - I have much material left over. The notes from the Conservation Day, rushed to me by Laurence, and Barry Leach's article on Boundary Bay will just have to wait. The previously promised Birds of Whistler, Kingfisher Capers and Computer Programs are up-coming. (Notice I did not say the next edition!)

Don't get me wrong - I do want lots of more article. I just ask contributor to be patient and we will get to you. Thank you to all who have contributed material in the form of articles, poems, drawings etc. We have some very talented people out there.

Jude Grass

THANK YOUS & WELCOMES

A BIG THANK YOU to **Brian Allaert** of Comox-Strathcona Natural History Society who pulled together the Education Committee newsletter called **Connections**. We thank you, Brian, for all your efforts and a job well done we are just sorry that the FBCN and the clubs didn't feed you more information to make your job easier.

WELCOME to **Stephen Goh** the new Director from the Nanaimo Field Naturalists and a BIG THANK YOU the **Jill Sims** and **Karen Mullen** who have attended many Director's Meetings over the past years. Your input was really appreciated.

WELCOME also is extended to **Fred Bender** of the Delta Naturalists who takes over from Director **Anne Murray**. The Kootenays have also been busy and send us two new Directors in **Derek Claridge** (Nelson Naturalist Club) who takes over from **Linda Van Damme** and **Dorothy Beestra** of the West Kootenay Naturalists Association who takes over from **Hazel Street**. A BIG THANKS to those former Directors.

JFG

CLUB CHAT

A thank you from the **Rivers Defence Coalition**. On behalf of the Rivers Defence Coalition, June Wood wishes to express a heartfelt thanks for the overwhelming response of FBCN member clubs to the Coalitions request for financial support and letters of support for its struggle against the Alcan Kemano Completion Project. **Guesnel Naturalists'** June Wood, who is the FBCN representative on the Rivers Defence Coalition, has devoted a considerable amount of time and energy to this cause.

The **Cowichan Valley Naturalist's Society** enjoyed astronomer Dr. Andy Woodsworth's talk on the Gemini and Hubble Telescope Projects in November. In December they learned the native uses of cedar trees in a workshop led by Dr. John Lawson and Barney McVey. Also in December, the club had a members' slide night where each member brought ten of their favourite slides for shared viewing.

North Okanagan naturalist Rosanne Van Ee expressed her thanks to the 23 **North Okanagan Naturalists Club** (NONC) members who volunteered their time to present programs at Ellison and Kalamalka Lake Provincial Parks last summer. Response to the programs from visitors was gratifying. On October 10th, NONC member, Mary Collins made the first record sighting of a Black Scoter in the Okanagan, at the Vernon Creek exit at Kinsmen's Beach.

Robin Yellowlees paid tribute to Howard Ede who died at the great age of 93, in September 1992. Howard was a founding member of the **Central Okanagan Naturalists Club** in Kelowna, its first official hiking group leader, first recipient of the club's service award, and first honorary member. Central Okanagan Naturalist Denise Browlie reports that 52 breeding pairs of Western Bluebirds raised a total of 237 fledglings in the 1992 nest box monitoring program around Kelowna. 370 nest boxes were observed by some 12 people. Other species sharing the nest boxes were Tree Swallows (99 pairs), House Wrens (18 pairs), Violet-green Swallows (15 pairs), plus chickadees, field mice, and one flying squirrel.

After ten years of preparing articles on bird observations for the **Williams Lake Field Naturalists'** Newsletter **Muskrat Express**, Jean Waite is retiring to let younger members of the 'flock' take over this endeavour. Jean's interest and enthusiasm over this time period was greatly appreciated by her fellow club members. The William's Lake club has set up a committee to gather information for a wildlife viewing kiosk to be constructed at the Scout Island Nature Centre by the Ministry of Environment as part of the Wildlife Watch Program. Five members of the William's Lake club are participating in the meetings of the Commission on Resources and the Environment (CORE) for the Cariboo-Chicotin region. This commission is very time consuming but may result in a conservation and resources development plan which is agreeable to all parties involved.

On November 28, the **Langley Field Naturalists** enjoyed a visit to the Reifel Migratory Bird Sanctuary on the Fraser river delta to view thousands of Snow Geese. They even saw a solitary Ross' Goose, pointed out to them by John Ireland, Refuge Manager. A Short-eared Owl and two Snowy Owls were among the 40 species they observed that day. This club combined forces with the White Rock and Surrey Naturalists for their Christmas Bird Count on January 2, 1993. Langley Field Naturalist Evelyn Oberg, reports that one of the many pheasants at their ground feeder this fall starred down a squirrel when they were beak to nose apart. The pheasant just resumed feeding. Its indifference to the squirrel's presence must have intimidated the usually unchallenged squirrel which retreated.

The **Alouette Field Naturalists**, who service Maple Ridge and Pitt Meadows, were busy last fall running a concession for one day at a GVRD event at Kanaka Creek Regional Park and then acting as nature guides for a Scouts Canada Walk-a-thon at Pitt Lake another day. On October 8th, they made good use of the two viewing towers and a shelter at Iona Beach Regional Park to observe two Snow Buntings, many waterfowl plus thousands of Dunlin flying around in their incredible massed maneuvers.

Lee Knopp of the **Chilliwack Field Naturalists** noted a bumper year for Red-breasted Nuthatches at her suet feeders which needs refilling every five days. This translates into a lot of 'greasy' trees on her property because the nuthatches store their food in bark crevices.

White Rock and Surrey Naturalists' Helen Noble attended the International Bluebird Conference in Kimberley last June. She enjoyed seeing the Mountain Bluebirds there and noted that placing nest boxes in pairs, two fence post apart, allows the bluebirds to take one and the swallows the other as these species can co-exist in close proximity to each other. Limiting the nest box entry hole to 1 9/16 inches diameter prevented entry of starlings and sparrows.

To promote their Burke Mountain/Pinecone Lake Provincial Park proposal, the **Burke Mountain Naturalists** club led several hikes which attracted 125 people to explore the numerous signed and developed trails the club has worked. They have also spoken to local organizations and service groups about their park proposal. This club is now the proud owner of the AVISYS Birding software program thanks to the generosity of Arnie and Martha Simpson. This computer program will be a great help in compiling bird sightings, generating checklists and summarizing Christmas Bird Count Data. On BC Rivers Day, the Burke Mountain Naturalists hosted a very popular canoe and hiking trip to Widgeon Creek Falls. Fifty-eight people participated and appreciated being shepherded across the chop at the south end of the Pitt Lake by canoe rental operator Gord Williams in his power boat.

AWARDS

There were no mishaps for the inexperienced canoeists on the trip.

As of last September, Quick's Bottom has a new bird blind, constructed by the **Victoria Natural History Society**, with the cost of most of the material being covered by long time naturalist Evelyn Duke. Remaining costs were borne by the club's share of the Warden's Fund provided by the FBCN with Ministry of Environment moneys. The District of Saanich will maintain the blind. Quick's Bottom is 18.8 hectares of marsh land in Royal Oak off West Saanich Road, which was once owned by William Quick, the first dairy farmer on Vancouver Island. The **Victoria Naturalist** reports much excitement among whale watchers, as a previously unknown offshore pod of 75 killer whales appeared off Victoria in September. Twenty-five rolls of film were expanded by researchers in attempting to identify these transient strangers by their distinctive dorsal fins and saddle patches. Killer whale research has been ongoing since 1973 when three resident pods around Vancouver Island were identified.

Serving the Castlegar, Trail and Salmo areas, the **West Kootenay Naturalists** organized an annual picnic in June, a potluck supper in August, along with many hikes, and in winter a number of ski and snowshoeing outings (even in moonlight). One member, Yvonne Tremblay, awoke one morning at 3 a.m. to water splashing her bathroom. It wasn't a burst pipe! It was a flying squirrel, madly splashing around in the toilet, trying to escape. After rescuing and caging it to show her pupils at school, she released it into the forest.

Feature Club - South Okanagan Naturalists Club

The South Okanagan Naturalists Club, based in Penticton, holds monthly meetings September to May on the 4th Wednesday of the month at 7:30 p.m. in the basement hall of St. Andrew's Presbyterian Church. They have an outdoor program every Sunday except through August, with walks or hikes to areas of interest within easy driving distance from Penticton. The club's conservation committee has an ongoing program of identification and inventory of significant natural areas, and is on the Brent Mountain Committee in concert with other groups pursuing Class A park status for Brent Mountain, adjacent Sheep Rock and the Apex Recreation Area. In cooperation with Okanagan University College, the club sponsors a \$250 bursary annually to a student planning to pursue a career in environmental studies. The 1992 Fall Thompson-Okanagan Regional meeting of the FBCN affiliated clubs was hosted by the South Okanagan Naturalists Club. May this club continue to be "Triple E". i.e. Educational, Environmental, and Enjoyable, Energetic, as a club member Wally Flattery says.

Adam Moss
Box 67, Tatchell Site
Quesnel, B.C. V2C 4S5

The Federation of British Columbia Naturalist gives a number of awards each year, to recognize the hard work and accomplishments of the individuals or groups in the area of natural history. Please help us to recognize these people - take a few minutes to consider who you think is deserving and nominate them! Full details were in January 1993 **B.C. Naturalist** Page 15.

These awards will be presented at the FBCN Annual General Meeting in Vancouver May 15, 1993.

The awards are: Elton Anderson Award; Club Service Award; Recognition Award; and the Barbara Chapman Award:

Nominations may be made by any member of the FBCN or its affiliates. Each nomination must be accompanied by an outline or resumé giving the reasons why the candidate is being proposed.

The deadline for submissions March 15, 1993.

The "Knowing Nature" Award:

This award is presented at the Fall General Meetings and the deadline for nominations is September 1, 1993.

Duanne Vandenberg
Chair - Awards Committee

FBCN RESOLUTIONS

All resolutions received by March 15, 1993 will be circulated in late March to all clubs and FBCN Executive, (and individual members on request). All resolutions will be dated and numbered by the Secretary on their arrival and will be discussed in that order.

Resolutions received after March 15, 1993 will be treated as resolutions from the floor.

Resolutions from the floor at the Annual General Meeting will be handled ONLY if time allows and providing there are two copies available for the Resolutions Chairperson and the Recording Secretary. If there is not time for discussion they will be presented at the Fall General Meeting.

Full details on format and rules were listed in the January 1993 **B.C. Naturalist** page 19.

Dick Stace-Smith
Resolutions Chair

**Deadline for submissions
March 15, 1993**

LAND FOR NATURE UPDATE

February 1993

Land for Nature: an FBCN initiative to support the habitat and wildlife conservation efforts of British Columbia's naturalists.

Since our last update in *B.C. Naturalist*, we have been planning some exciting **Land for Nature Project** activities in various areas of the province. We are also continuing our efforts to ensure that naturalist's substantial knowledge about ecologically-important areas is applied in major provincial land-use planning processes such as the Protected Areas Strategy (PAS) and Commission on Resources and Environment (CORE). On the local government front, clubs participating in the project continue to build constructive working relationships with regional and municipal governments.

Regional Activities

Thompson-Okanagan

The **Okanagan Land for Nature Project** is completing a report on environmentally-significant sites in the Okanagan Valley and is hosting a forum on February 25th in Summerland to examine ways to protect these sites and to build working relationships with government decision-makers, industry and other organizations. The speaker's list for the forum includes such notable individuals as Dr. Ian McTaggart-Cowan and Dr. Geoff Scudder. Response to the forum has been very positive, with over 100 people expected to attend. The clubs were recently pleased to learn that their funding application to Canada Trust's Friends of the Environment Foundation was successful; \$2,850 has been approved to cover the cost of the proceedings.

The Kamloops Naturalists' **Land for Nature** team is hosting a forum on March 27th to bring together a wide range of interests to create an action plan to protect ecologically-significant sites within the Kamloops City Limits. The Kamloops club also continues to build on its positive relationship with the City of Kamloops Parks and Recreation Commission.

Vancouver Island

The Victoria Natural History Society Conservation Committee has formed a Steering Committee to plan and implement a **Land for Nature** workshop/forum in late April involving Capital Regional District planners and politicians, naturalists, and other groups. The intent of this gathering is to build the working relationships and approaches necessary to help ensure that important sites in the area are protected.

Lower Mainland

The Fraser Valley Wetlands Study to status and prioritize wetlands for protection purposes has reached substantial

completion and CWS, our funder, is pleased with our work.

Other **Land for Nature** activities in the central Fraser Valley are well underway. A "skills workshop" is taking place on the evenings of February 17th and 23rd to familiarize naturalists with site identification, mapping and profiling techniques and to build working relationships with municipal planning personnel. The District of Matsqui is very supportive of our venture and has kindly donated the use of its facilities for the workshop. We are also very pleased to report that our federal government job creation grant has been approved to enable us to hire two people to assist the Central Valley Naturalists with their site identification and mapping activities.

A forum for municipal and regional district politicians, planners and naturalists in the central Fraser Valley is scheduled for March 26th. The purpose of this event is to educate participants on the rationale for protection of natural areas in the region and the legal and other tools available to planners and politicians to implement protection measures.

Please contact Bob Purdy at (604) 669-0711 if you would like to know more about upcoming events and activities of the Land for Nature Project. Thank you!

4th OF JULY BUTTERFLY COUNT

The Chilliwack Field Naturalists are organizing their first annual "4th of July Butterfly Count" in June. In 1991, there was only one count in B.C. and it took place in Edgewood (Clearwater). Only three provinces in Canada participated.

The count circle includes many habitats from the Fraser River in the north to Columbia Valley in the south; from McGillivray Creek Game Reserve/Vedder Canal in the west to Rosedale in the east, and yes, it includes the Elk-Thurston meadows!

The tentative date is set for Saturday, June 19th. As butterfly do not fly on rainy days, the count may be canceled to the following Saturday, June 26th. This is definitely a fair-weather hiker's count.

If you are interested in butterflies, get out your binoculars and nets and join in the count! Contact Lee or Denis Knopp of the Chilliwack Field Naturalists at 858 5141 if you would like to participate.

Lee Knopp
Chilliwack

UP AND COMING

MARCH

- 20 Vancouver Island Regional Meeting, 10:30 a.m. Rm#1, Bowen Park, Nanaimo.

APRIL

- 2-4 Brant Festival - Parsville-Qualicum Bay. See page 11 for details.
- 5 **FBCN Director's Meeting - 1367 West Broadway, Vancouver at 6:15 p.m.**
- 21-25 BC Wildlife Federation AGM at Vernon.
- 29 Rafting the Tatshenshini: A slide illustrated lecture by Syd Cannings 7:30 p.m. Tickets \$4.00. For information 736 4431.
- 30-M 2 BC Field Ornithologists 3rd Annual General Meeting at Ucluelet. For info contact: Mike McGrenere, 1178 Sunnygrove Terrace, Victoria, V8Y 2V9 Ph. 658 8624.
- 30-M 2 BCEN Annual General Meeting - Victoria. For information 879 2279.

MAY

- 2-4 BC Hydro Electrical Forum - Victoria
- 8 International Migratory Bird Day. Birders will be encouraging conservation action for migratory birds with a host of special events, bird walks, counts, habitat restoration projects etc. For information write Cornell Lab of Ornithology, 159 Sapsucker Woods Road, Ithaca New York, 14850 (FAX - 607-254-2415)
- 10 "Art, the Environment and Conservation" with Robert Bateman, 8:00 p.m. Vancouver Museum. \$8.00 Phone: 736 4431
- 14-6 **FBCN ANNUAL GENERAL MEETING at Vancouver. Registration form page 28 - 29**
- 15-16 The Federation of Mountain Clubs of B.C. - Hike B.C. Day. For information contact Anders Ourom at 737 3053.
- 29 Outdoor Recreation Council of B.C. AGM at Vancouver. For information 737 3958.
- 29 Okanagan Mountain Provincial Park Bird Count. See page 8.

JUNE

- 4-6 Norma Wilson, ORC, will lead a geology tour around southwestern B.C. Please contact her at 737 3058.
- 6 4th Annual Colony Farm Walkabout hosted by Burke Mountain Naturalists. Contact April Mol 463 2507.
- 7 **FBCN Director's Meeting - 1367 West Broadway, Vancouver at 6:15 p.m.**
- 18-20 Manning Provincial Park Annual Bird Blitz. More details next time.
- 19 Butterfly Count - Chilliwack. See page 16 for details.
- 20-27 FBCN Camp at Gardom Lake. See page 30 for details and registration form.

JULY

- 22-25 Canadian Nature Federation - Annual General Meeting at Vernon. Central Okanagan Naturalists hosts. See page 19.
- July 28 Please note date changes from last edition!!!!
- Aug 4 FBCN Camp at Height of the Rockies (Kootenays) See page 30 for details ALSO AUGUST 5-11

AUGUST

- ** There will be a Director's Meeting in August. Information will be sent to Directors re time and place.

KEMANO - AN UPDATE

February 4, 1993

In 1990, the federal Cabinet enacted the Kemano Completion Project Guidelines Order to exempt the Kemano Completion Project and the Settlement Agreement from the federal Environmental Assessment and Review Process (EARP). May 1991 the rivers Defence Coalition and the Carrier-Sekani Tribal council successfully challenged the authority of the federal government to negotiate such an agreement without conducting a review of the proposal under EARP. Justice Allison Walsh ordered a full environmental review of the project and overturned federal order-in-council exempting Kemano Completion from federal governments own guidelines. In May of 1992 the Federal Court of appeal overturned that decision and reinstated the Kemano Completion Project Guidelines Order which exempts Kemano completion from EARP. The Rivers Defence Coalition and the Carrier-Sekani Tribal Council made a decision to apply for leave to appeal to the Supreme Court of Canada. On February 4th the Supreme Court of Canada reject that appeal. Needless to say we are disappointed. That door has closed.

Where does that leave us? With the provincial review, which to date the federal government has not committed themselves to participate in. Regardless the Rivers Defence Coalition and others have vowed to put all of their energies towards this review and will leave no stone unturned.

February 5th, 1993

Friday, February 5th I attended a meeting of the Fraser Basin Management Board which is in the process of setting up local and regional advisory committees. The four regions are: Upper Region (Prince George and up), Cariboo, Nicola, Thompson, and Hope to the mouth of the Fraser. Tony Dorsey stated that the Nechako will be included as all tributaries in the Fraser River Basin will be with the goal of long term sustainability. I reminded him that the deadline for recommendations stemming from the Provincial Review is September 31, 1993 and because of this the Nechako could not be treated as just another river. If nothing is gained through the review, then the goals for "long-term sustainability" will not be attainable. Arlene Galisky of Allied River Commission stressed that many of us (myself included) would not be able to sit on the Regional Board if plans did not include participation in the review of the Kemano Completion. We were assured that this was going to happen. The involvement of the Fraser Basin Board in the review can only be regarded as a very positive development.

June Wood
Quesnel

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A Video on the wintering Trumpeter Swans

Don't miss this opportunity to improve your knowledge and appreciation of the Trumpeter Swans in the Comox Valley, Vancouver Island. Members of the Comox Strathcona Natural History Society in conjunction with VideoWave Productions have produced a 25 minute video on these splendid birds. **Love the Wild Swans** outlines some of the history of the swans in the area from the first few birds to the somewhat unruly masses that arrive nowadays. Conflicts between wildlife and agricultural preservationists are identified with the ensuing solutions indicating a very positive and hopeful management practices for the future of all concerned.

Order Form

Copies of the video **Love the Wild Swans** are available for \$29.95 each including GST and PST.

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Saturday, May 15, 1993

Find out how you can participate in making important decisions about Air Quality, Liquid Waste, Solid Waste, Drinking Water, Parks, Growth Management and Transportation, and Hospitals.

- Check your community or local paper before May 15 for an information insert.
- Fill out the feedback portion, and mail, phone or fax us your responses.
- Attend one of six community meetings May 15 (to register call 436-6954 or fax 432-6399); tell your elected representatives what GVRD programs you want for your community and how much you're willing to pay for them.
- Watch your local cable television channel May 15 for a discussion about the future of our region's air, liquid waste, solid waste, water, parks, growth management and transportation, and hospitals.

For information contact:
GVRD Communications and Education,
4330 Kingsway,
Burnaby, B.C. V5H 4G8
Tel: 432- 6339 Fax: 432- 6399



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BUGS

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Different colours to,
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I want to have a flea
For a present for someone I know.
He has sagy ears and a wet nose.
Do you inow who I know?

Miss Katy Lorimer

FRIENDS OF WELLS GRAY PARK SUMMER FIELD COURSES (1993)

Wells Gray Park will again be the venue for natural history field courses sponsored by The Friends of Wells Gray Park during the summer of 1993. In total six courses will be offered by six talented and enthusiastic teachers. For registration forms and detailed information please write to SUMMER FIELD COURSES, FOWGP, c/o Box 3383, R.R. #2, Clearwater, B.C. V0E 1N0, or phone (604) 587-6532.

Register early for these exciting summer field courses:

BIRDS FOR BEGINNERS (WELLS GRAY): Dates: May 14, 15, & 16, 1993. Fee: \$95.00 or \$80.00

Instructor: Nancy Flood: Author, Biology Instructor at University College of the Cariboo.

A course to introduce beginners of all ages to birds; for singles or families.

HABITAT BIRDING (WELLS GRAY): Dates: May 28, 29, & 30, 1993. Fee: \$95.00 or \$80.00

Instructor: Dr. Tom Dickinson: Researcher, Instructor at University College of the Cariboo.

Visit several common Wells Gray habitats and learn about the communities of birds that live there. All levels of birders welcome.

BIRDSONGS OF WELLS GRAY'S CANYONLANDS: Dates: June 11, 12, & 13, 1993. Fee: \$110.00 or \$95.00

Instructor: Gary Davidson: Educator, Researcher.

Learn to identify birds by their songs and calls. Some birding experience helpful in this course.

WILDFLOWERS WELLS GRAY: Dates: July 30, 31, & August 1, 1993. Fee: \$95.00 or \$80.00

Instructor: Helen Knight: Educator, Naturalist.

From subalpine meadows to valley bottom; learn about the park's wildflowers.

VOLCANOES OF WELLS GRAY PARK: Dates: August 6, 7, & 8, 1993. Fee: \$110.00 or \$95.00

Instructor: Dr. Cathie Hickson: Volcanologist, Author.

The volcanoes of Wells Gray Park are but one aspect of the fascinating geological history of the park which this course explores.

ENLICHENMENT 101: Dates: September 4 & 5, 1993. Fee: \$110.00 or \$95.00

Instructor: Trevor Goward: Lichenologist, Author.

A course designed to provide naturalists with a basic level of lichen literacy through lecture, lab experience and field work.

Note: Registration fee for all courses includes dinner Saturday.

The higher of the two fees also includes two nights camping.

(All fees subject to 7% GST)

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- a newsletter (4 issues a year), including birding site guides, news items, and listing data.
- an annual meeting with field trips and invited speakers (3rd annual meeting to be held April 30 - May 2, 1993 at Ucluelet).

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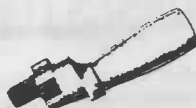
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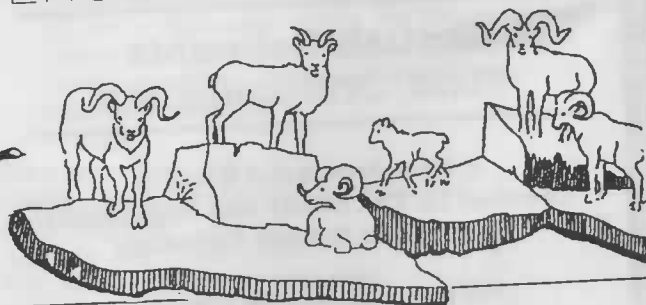
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With any luck, it's been a long time since anyone has ever said to you, "I wouldn't have a dog with a face like yours." However, there seems to be more than just a little evidence to suggest that people resemble the appearance and personality of their pets ...or do pets resemble their people? I can never remember which it is.

I have long wondered if naturalists also resemble their particular special interests, and over the years I have collected much evidence that supports the suggestion. At last, I am ready to present my Portrait of the Naturalist as a Young:

Ornithologist:

This person is typically eagle-eyed and hawk-nosed. He or she quickly ducks criticism, and may suffer from pigeon toes. After strenuous activity, this person starts puffin and becomes bird-brained. Crazy as a coot, ornithologists rail against the gull of some people and their larks, but crow over their own accomplishments. Opinions are sometimes hard to swallow.

Mycologist:

Their personalities are molded on rot, although one friend of mine was real fun guy; fun gal personalities can also be found in the female department. Both these types may have shaggy manes, but are totally lacking in morels. Outsiders may lichen themselves to algae.

Entomologist:

Things are always cricket for these wasp-waisted, cute-as-a-bug's ear types. They flea quickly after specimens, taking an impressive bee-line towards their quarry. Bug-eyed with wonder, they become antsy as they approach new finds. Mood: anything but lousy.

Herpetologist:

Sadly, they often exhibit frog legs (but that's old newts). Lower than a snake's belly, these toadies will do anything to rate high on any scale. Speaking of scales, their singing is a ribbiting experience.

Botanist:

These bleeding hearts, with hairy cats' ears and rosy pussy toes, are real plums. Some women develop rose hips, while their male counterparts acquire goatsbeards. Not the sort to beat around the bush, their baby's breath carries their sage advice to great heights.

Geologist:

Not content to take things for granite, this breed of naturalist walks a rocky path. Cannot cope with metric; always measures in quartz. Identifiable by sandy hair and turquoise eyes. Often found stoned.

Dendrologist:

Although they cannot see the forest for the trees, these

saps like to branch out. They'll leaf through several study areas in a season, carrying all their resources in their trunks. With plenty of bark but very little bite, these sturdy explorers travel the less common roots (they wood!) with tree-mends results.

Mammologist:

Sporting bear feet, these deer types can be sheepish or squirrely. Their feet provide paws for reflection, and they have a whale of good time wherever they go (on porpoise, of course). Quest: to find the missing lynx.

Meteorologist:

Hail, hail, oh reigning head-in-the-clouds types! They are humourless, cirrus people whose cumulus years of experience make them respectable enough, if not long-winded. Beware of snowjobs which precipitate unsettled conditions.

Ichthyologist:

A slimy-sort - you know something fishy is happening. They perch confidently over water, but flounder when they get in over their heads. Suckers for punishment, they make cut-throat card sharks just for the halibut. They know: you can tune a piano, but you can't tune a fish.

So there is my Rogue's Gallery of naturalists. Do you know anyone who fits these descriptions? It's curious how often people are described - pigeon holed, as it were - according to some natural descriptor: there's the slug lady, or the bird man (of Alkatraz?), or the frog guy, one CBC *Nature of Things* program is called "The Bug Man of Ithica" if I remember correctly. We all know the types: the pig, the rough jewel, the blossom, the turkey, the queen bee...the drone.

Sometimes, people pigeon hole themselves and display their naturalist specialty like a badge of honour. I've seen spider pendants, frog broaches, cat T-shirts, butterfly hair-clips, mallard walking sticks, fish ties, and oodles of floral shirts, blouses, and scarves.

Other times, though, I've noticed that these badges are not entirely self-chosen. Perhaps it is easier to label someone based on one particular interest than it is to consider the wide multitude of traits of that individual, and it might be easier to live up to that one role than it is to suggest there are others.

One thing seems certain: naturalists are multi-dimensional! So maybe it is best to remember that the arachnid man is also keen on the orange hues of a setting sun, and the fish woman often dabbles in mighty cedars. As for myself, I have on occasion received the label of "Slug Man," which is fine as far as it goes, but don't expect me to dine on detritus!

NO WOLF CONTROL PROGRAM IN B.C. Claims Wildlife Branch

American animal rights groups are badly mistaken in threatening a tourist boycott of northern B.C., Victoria, and Vancouver because of alleged wolf kill activities in the province, as there has not been a wolf population control program here in four years, Environment Minister John Cashore announced on January 29.

"These groups are confusing proposed wolf control programs in the Yukon and Alaska with wildlife management in B.C. They are obviously misinformed".

Wolf management is only carried out by the ministry in extreme cases to deal with problem wolves. It is usually restricted to private lands where ranchers have demonstrated that wolves have been attacking or harassing livestock.

In such cases, very small doses of the predicide Compound 1080 are used by trained conservation officers. It is considered to be the most environmentally responsible and humane method available.

The maximum total amount of Compound 1080 that may be used in the province annually is 8.5 grams.

"Without exception, Compound 1080 is only employed when all other methods of dealing with problem wolves have been exhausted." Cashore said.

"As far as wolves are concerned, our efforts have paid off handsomely as demonstrated by the expansion of the wolf range in the province, particularly in southern areas. Indeed, that expansion has enabled B.C. to support recovery efforts for the wolf in adjoining states."

The B.C. government has an ongoing Wolf Advisory Committee which includes representatives from environmental organization. It also has a

special standing committee that advises government on how best to minimize wildlife-livestock conflicts in the province.

For information contact:
Ray Halliday, Director,
Wildlife Branch
Phone: 387 9731

Editor's Note:

The FBCN is represented on the Wolf Advisory Committee by Michael Sather.

ENVIRONMENTAL AWARDS KNOW SOMEONE WORTHY???

Nominations are now being accepted for the 1993 Minister's Environmental Awards, John Cashore, Minister of Environment, Lands and Parks has announced. British Columbian's are encouraged to acknowledge environmental contributions by filling out a nomination form.

Minister Cashore and Lieutenant Governor David C. Lam will present the awards to recipients for their dedication and achievements in protecting and sustaining the environment.

Candidates can be nominated for outstanding efforts in the following six categories:

- individual citizens
- youth group or organization
- community, or municipality
- business or industry
- environmental education
- communication or media

Nomination forms are available through all B.C. Environment Regional Offices; by calling the Recycling Hotline at 1-800-667-4321 and by contacting Ministry of Environment, Lands and Parks at 387 9422 (Victoria).

1993 WESTERN STATES AND PROVINCES WATCHABLE WILDLIFE AND NON-GAME SYMPOSIUM

October 13 - 16 1993

Newcombe Auditorium,
Royal British Columbia Museum,
Victoria

in conjunction with the

CANADIAN DECLINING AMPHIBIAN TASK FORCE WORKSHOP

October 15 - 18, 1993

Contact: Liz Stanlake, Acting Wildlife Viewing Coordinator, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanchard Street, Victoria, B.C. V8V 1X4 Phone 387 9767 FAX 356 9145

Further details in May edition of *B.C. Naturalist*

BRANT HUNT STOPPED IN BOUNDARY BAY

On February 12 Environment Minister John Cashore announced the end of the traditional spring Brant hunting in Boundary Bay, Delta. The hunt was originally scheduled for March 1-10, 1993. GVRD Parks had earlier passed a motion not to allow hunters to use Boundary Bay Regional Park as a staging area. Both GVRD Park Committee members and the Minister acknowledged that the closure of the Brant hunt is a result of increased urban development and growing public concern.

RIPARIAN HABITAT MANAGEMENT AND RESEARCH SEMINAR AND WORKSHOP

Biologists, forest resource managers, foresters, technicians, naturalists, ranchers, trappers, natives and students are invited to discuss riparian habitat ecology and management strategies at a seminar and workshop this spring.

Dr. Fred Bunnell of the UBC Faculty of Forestry and Dr. Larry Bryant of the US Forest Service, both recognized leaders in this field, will be keynote speakers at the seminar. Technical papers will be presented on the organisms that live in riparian habitats, vegetation communities that characterize these habitats, the impacts of management activities and alternative resource management strategies during the first day.

Small group discussions are planned on the second day to identify research gaps and appropriate methodologies to address these gaps, evaluate current planning and operational procedures and assess the effectiveness of existing and new guidelines for managing riparian habitats.

Date:

Seminar: May 4, 1993

Workshop: May 5, 1993

Location:

Stockman's Inn, Kamloops

If you do not receive a brochure by April 1, 1993 contact:

Gail Malinsky,
B.C. Forestry Continuing Studies
Network,
University College of the Cariboo,
Box 3010, Kamloops, B.C.
V2C 5N3
Phone: 371 5540
FAX: 371 5574

TRUST FUND ESTABLISHED IN BOUNDARY BAY

Delta farmers and wildlife conservationists are putting their trust in each other.

A report to Delta council revealed the formation of a trust fund for farmers and environmentalists. Spearheaded by Councilor Wendy Jeske, the "Farmland Wildlife Trust" has a mandate to seek funds from various private and public agencies for projects that enhance agriculture and conservation habitat.

Jeske said the trust, to be governed by eight directors, is a landmark achievement because it was once thought to be impossible.

The Farmland and Wildlife Trust will be able to apply for grants to fund programs such as the Greenfields project. The Trust is also looking for a tax free designation from Revenue Canada so members of the public can feel free to contribute.

The nineteen member founding committee includes several local farmers and conservationists, The Nature Trust of B.C., the Agricultural Land Commission, the provincial ministries of the Environment and Agriculture, Canadian Wildlife Service, UBC Faculty of Agriculture, Delta planning staff, and the municipality's lawyer, Thompson and McConnell.

COWICHAN VALLEY NATURALISTS PREPARING LIST OF SENSITIVE AREAS

The Cowichan Valley Naturalists are compiling a list of environmentally important or sensitive areas in the valley. Upon completion, the list will be presented to the Cowichan Valley Regional District (CVRD) and Municipality of North Cowichan. The list will help planners and politicians make

sensible land use decisions, said Sally Leigh-Spencer, chair of the naturalists' conservation committee. The municipality and CVRD are already aware of a number of environmentally important areas, but other sites importance may only be familiar to the naturalists.

The wildlife, birds, fish or plant species of each selected site will be inventoried. Other sites may make the list for their buffer zone capacity. A list and accompanying map will take about two months to complete.

BC BANS TRADE IN BEAR PARTS TO ENHANCE CONSERVATION EFFORTS

In a move to protect B.C.'s black and grizzly bears, the provincial government has approved a ban on the commercial trade of certain bear parts. Any commercial transactions involving bear galls, or paws and genitalia separated from the carcass or hide, will be illegal in B.C. as of February 1, 1993.

The new regulations forbids the possession, trafficking, importing and exporting of bear galls, and genitalia separated from the carcass or hide. It also bans trade in bear paws separated from the carcass or hide, though possession is still permitted to allow for ceremonial use by aboriginal people.

Growing demand for bear parts used in traditional Asian medicine, and its potential effect of bear populations, have been of concern to the government for some time. Documentation of international trade shows that some bear parts sell for thousands of dollars per kilogram.

For more information contact:

Vivian Banci
Carnivore Specialist
Wildlife Branch
Phone: 387 9799

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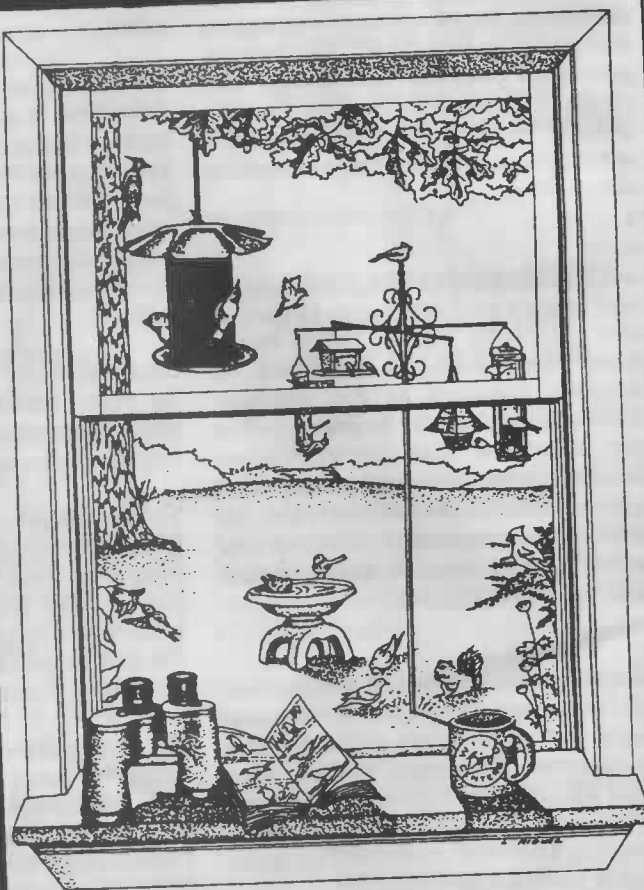
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PAGE 24 B C NATURALIST MARCH 1993

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SCRAMBLED EGG SLIME

"Myxomycetes (Mycetozoa). Slime Moulds. Group of very simple organisms with both plant and animal characteristics; taxonomic position uncertain...."

Black and white photography does no justice to the beautiful chrome yellow of scrambled egg slime, one of the more commonly encountered slime moulds in the western hemlock forest. It is a wonderful sight to behold and it seems to glow in the dappled light of the woods. Slime moulds have a vegetative condition known as *plasmodia*. They move about and ingest food (an animal characteristic), and they reproduce by spores, a plant characteristic. According to some classifications, slime moulds (*myxomycophyta*) are divided into four groups: (1) true slime moulds, (2) cellular slime moulds, (3) endoparasitic slime moulds and (4) net slime moulds. Keeton (1972) notes that true slime moulds and cellular slime moulds are not closely related and should be placed in separate division.

Other slime moulds frequently encountered in our coastal forests include a white coral slime, and a species that looks like balls of pink bubblegum.



Slime moulds achieved notoriety a few years ago when a large one developed on a front lawn down in Texas. Perhaps the minor hysteria it caused had been influenced by the 50's Sci-Fi movie "The Blob" because it was looked upon as an invader from another planet. Red-faced authorities who had surrounded it soon learned it was a true celebrity - a slime mould.

Search the woods - especially on top of, or on the sides of logs - for the golden glow of scrambled egg slime.

Reference:

Keeton, W.T. (1972)

Biological Science (2nd Edition) Norton and Co., New York.

A BIRD WATCHING GUIDE TO THE VANCOUVER AREA

Vancouver Natural History Society

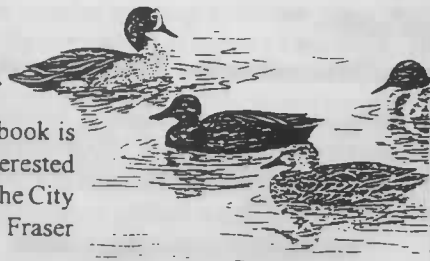
A complete guide to all the best locations to see birds in the Greater Vancouver area, and what you will see.

Written by experts from the Vancouver Natural History Society, this book is an indispensable field guide to bird watching locales. A must for all interested in their natural environment, not just keen birders. Includes locations in the City of Vancouver, the North Shore, the Fraser Delta, Burnaby, and the Fraser Valley. Also has a bar graph checklist of birds to see.

112 pages 215 x 145 mm

10 b/w photos, 10 line drawings, and 22 location maps

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HIKING IN THE STEIN VALLEY

with Gordon White May 28-30

HUMMINGBIRDS OF BC

with Gayle Brown June 5-6

WILDFLOWERS OF NORTHEASTERN BC

with Wilf Nicholls July 23-28

RAFTING THE TATSHENSHINI

with Syd Cannings June 12-20

KILLER WHALES OF JOHNSTONE STRAIT

with Robin Taylor July 21-24

NATURAL HISTORY OF THE SIERRA MADRE

with Carlos Galindo-Leal April 21-May 2

AMAZON RAINFOREST AND GALAPAGOS ISLANDS

with Michael H. Jackson August 7-27

For further information on these natural history programs or programs with a cultural focus - including Russia/Ukraine/Belarus, Portugal, Spain, New York, Tibet, Turkey, Santa Fe, Queen Charlotte Islands and Egypt - please call (604) 222-5219 or write to:



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For brochure or booking, contact:

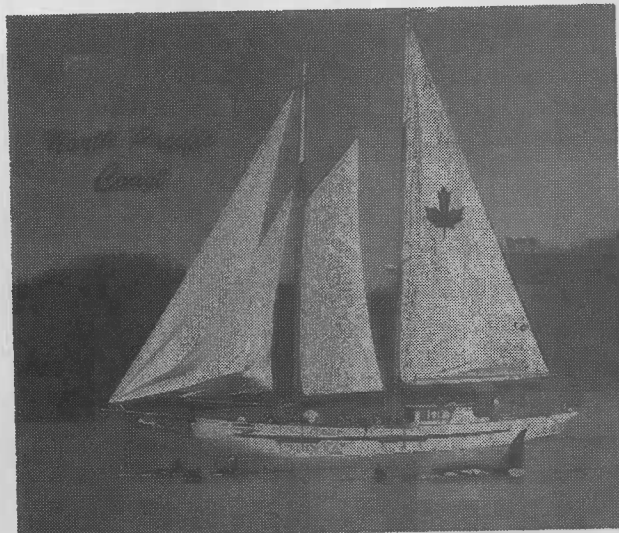


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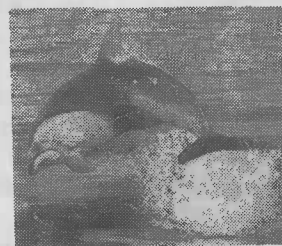


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- SOUTHEAST ALASKA
- ROBSON BIGHT

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Jerry's Rangers

SIGNS OF SPRING When does spring start?

Now that the days are getting longer and another winter is behind us, it's time to think about spring, or more exactly, when does spring "start"? Yes, you can look on your calendar for the "official" date of the spring equinox which occurs on March 20 or 21, and is also called the vernal equinox. The different dates result from the quarter day difference between the calendar year and the tropical year and the subsequent addition, during leap year, of one whole day.

One good way to appreciate what is happening outdoors is to keep a nature diary. Make notes of what you see, and if possible, draw pictures to illustrate your notebook. Over the years this will give you a very good idea of how spring really comes to your area. Check out your own backyard or a local park to see how the season unfolds.

Here are a few things to watch for:

Butterflies

- in spring? Yes you may be surprised to see a Mourning Cloak fluttering about or perhaps an angle-wing. Overwintering adults are often warmed up sufficiently to get them active on early spring days.

Plants

- pussy willows - Do willows have flowers? Check out the pussy willows for insects such as beetles and flies. See if you can find the shiny bud scales that protect the buds during the cool days of winter.

- skunk cabbage - on the coast, skunk cabbage or "swamp-lantern" will be visible in wet areas by early March. This beautiful plant is really one of the sure signs that spring is here. When does it come up in your area? Check out the flower (the spike that looks like corn on the cob) for interesting little beetles.

- Indian plum - pops out its flowers before its leaves. How many other plants do this? Hazelnuts boom early and the golden dangling catkins which produce pollen, can be



seen from a long distance. The tiny red female flower is truly something wonderful to discover. A 10x magnifying glass will help to reveal fine details of flower and bud.

Birds

- keep a record of the birds in your own backyard or neighbourhood park. Have many wintering birds left? Are some only passing through? What about song - have you noticed any singing? One nice song that you can listen for is the "tea-time" of the Black-capped Chickadee. Sometimes they even sing it on sunny winter days.

Mammals (animals)

- some of the best mammals to watch are squirrels. Keep track of their comings and goings; what are they feeding on? Be a nature detective and look for signs and clues such as tracks and droppings to help you learn about the mammals in your area.

Jerry says that by keeping a nature diary you will gain a wonderful appreciation of nature's seasons. Make sure you include date, weather, habitat, behaviour, leafing and blooming dates, and drawings to illustrate your discoveries. Hopefully, you'll be able to write an article for the **B.C. Naturalist** to share your wonderful discoveries with all the **Jerry's Rangers**. Take care and if you have any ideas or suggestions please write us.

Cheers

Al Grass for
Jerry the Moose

ANNUAL GENERAL MEETING

FEDERATION OF BRITISH COLUMBIA NATURALISTS ANNUAL GENERAL MEETING at VANCOUVER MAY 13 - 16, 1993

Location:

University of British Columbia Conference Centre
5959 Student Union Mall (off Wesbrook)
(all meetings and workshops will take place at this location)



Thursday May 13

7:00 p.m. Registration in lobby of Walter Gage Residence
Speaker (TBA) and refreshments

Friday May 14

6:30 a.m. Early morning birding
8:15 a.m. Registration in lobby of Walter Gage
9:00 a.m. Workshops on Restructuring and Land for Nature
12:00 p.m. lunch••
1:30 p.m. Workshop on Fraser River Basin Management Program. Tony Dorsey, Westwater Research.
Problems and actions associated with the Fraser River will be applicable to the Okanagan and Columbia River basins.
4:00-8:00 p.m. Free time•• Possibly committee meetings 4 - 5:00 p.m.
8:00 p.m. Wine and cheese party. Some FBCN awards will be presented.
10:00 p.m. Owling trip.

Saturday May 15

6:30 a.m. Early morning birding
8:15 a.m. Registration in Walter Gage lobby
9:00 a.m. Annual General Meeting - until 5:00 p.m. Followed by short Director's Meeting.
6:30 p.m. Social Hour
7:30 p.m. Banquet: Theme Vancouver Natural History Society's 75th Anniversary

Sunday May 16

9:00 a.m. Start of Field Trips
Half Day • Camosun Bog - Pacific Spirit Regional Park
• U.B.C. Botanical Garden
• Iona Island
Full Day • Boundary Bay

Accommodation:

Make your own reservations at UBC using the form on next page ->
•• Meals are available from Student Union Building across the street.

Registration fee includes the social Thursday and Friday evenings, plus coffee breaks during meetings and workshops.

Registration Form

Registration fee (before April 15)	\$26.00 per person	X	_____	=	_____
Registration fee (after April 15)	\$32.00 per person	X	_____	=	_____
Banquet	\$24.00 per person	X	_____	=	_____
				TOTAL	_____

Name _____ City _____ Postal Code _____
Address _____ Club Affiliation _____
Telephone _____

Make cheque payable to Vancouver Natural History Society and mail to Box 3021, MPO, Vancouver, V6B 3X5.
Attention: Mary McLeod.

UNIVERSITY OF BRITISH COLUMBIA
REQUEST FOR ACCOMMODATION AT WALTER GAGE COMPLEX
Federation of B.C. Naturalists Annual General Meeting
May 13 - 16, 1993

LAST NAME:		FIRST NAME:	
ADDRESS1:			
ADDRESS2:			
CITY:		STATE/PROVINCE:	ZIP/POSTCODE:
COUNTRY:		TELEPHONE NUMBER:	

Month Day
Arrival Date

CHECK IN
after 2:00 pm

Month Day
Departure Date

CHECK OUT
before 11:00 am

Shared Washroom

☐ Single room with shared washroom

Room/Night
\$29.00

Private Washroom

☐ Single room (single bed)

\$50.00

☐ Suite (double bed)

\$68.00

☐ Deluxe suite (twin beds; living room
with TV, telephone, sofa-bed; kitchenette)

\$80.00

If requesting a Suite, please advise number of people:

*Single rooms with shared washroom will be substituted when requests for private washroom cannot be accommodated.
All rates quoted in Canadian funds and subject to applicable taxes.*

PAYMENT INFORMATION:

- Full payment in Canadian funds is due at check-in by cash, travellers' cheques, VISA or MasterCard (no personal cheques).
- There is no guarantee required for shared washroom accommodation. However, private washroom accommodation has to be guaranteed with VISA or MasterCard or with a deposit by bankdraft in Canadian funds for the equivalent of one night.
- A one-night cancellation charge applies if cancellation in writing is not received 48 hours prior to check-in date.
- Refunds of deposits will incur a \$15.00 administration charge.

☐ VISA ☐ MASTERCARD

Expiry Date:

Month	Year

CARD NO.

X

CARDHOLDER'S SIGNATURE

DATE SIGNED

Please mail or fax this request no later than April 15, 1993
UBC CONFERENCE CENTRE, RESERVATIONS OFFICE
5961 Student Union Blvd., Vancouver, BC V6T 2C9 Canada
Tel: (604) 822-1010 Fax: (604) 822-1001

Group Code G30513A

Salmon Arm Camp

June 20 - 27, 1993

The Salmon Arm Bay Nature Enhancement Society (SABNES) is hosting the annual camp at the Gardom Lake Bible camp. Accommodation includes - rooms upstairs in the main lodge, cabins that sleep 10, and sites for tents or trailers.

Gardom Lake, a small lake 10 km south of Salmon Arm, excellent for canoeing, is home for loons and several nesting pairs of Red-neck Grebes.

Salmon Arm and area offers a wide variety of terrain, climatic types and ecological zones, from dry, grassland valley bottoms to the extensive sub-alpine meadows of the Hunters Range. Spots of interest include the Salmon Arm Bay, one of the only two BC nesting places for the Western Grebe, and Mara Meadows, an ecological reserve bog containing several plant species not commonly found in southern BC, and one not found elsewhere west of the Rockies.

Carpets of wildflowers and splendid views will be part of the day outings to places such as the Hunters Range, Enderby Cliffs, Coldstream Ranch and Queest Mountain.

Registration Information

If registering for more than yourself, please send full address and phone number for each person. Registration is limited to 70. Applications are accepted on a first come basis on receipt of form and fee in full. Please note on your application form which type of accommodation you would like, and the names of people that you would like accommodation with.

Cost - \$320.00

Make cheques payable to FBCN Camp, Please complete Registration Form, enclose a self-addressed envelope, postdate your cheque for April 1, 1993, and send to

FBCN Camp,
c/o SABNES,
Box 27 Salmon Arm, BC
V1E 4N2

For further information please phone Joyce Henderson (604) 832-4127

Full refunds will be made up to May 1, 1993. After that date partial refunds will be made depending on camp costs already committed.

Height of the Rockies

Expeditionary Style Camp

July 28 to August 4 and
August 5 to August 11

Height of the Rockies will be the scene of this years do-it-yourself camp. There will be two one-week camps each having a maximum of 20 persons. Personal equipment will be taken in on packhorses and participants will have about a six hour hike in from where the cars will be left. The drive from Radium Hot Springs to the parking area will take about two hours mostly on logging roads. Cars will need protection from porcupines. The camping area will be Russell Lakes, 4 kilometres north of Russell peak at a height of about 2350 metres (7700 feet). Participants will need to bring all necessary food and cooking equipment for one week. Light weight tents will also be needed but shelter tarps and Coleman gasoline will be part of the camp equipment. Height of the Rockies is a relatively new B.C. Forest Service Wilderness area about 55 kilometres long and average width of about 10 kilometres. It abuts on the southern extremity of Banff National Park at Palliser Pass and borders on the east with Peter Lougheed Park and further south with Elk Lakes Provincial Park.

It has been described as a world class mountain wilderness. Perched astride the Continental divide with razor edged peaks rising to over 3,400 metres. It is scenically spectacular and magnificently diverse. Up thrust ridges and rock towers, glaciers, clusters of high altitude lakes, valley and alpine meadows. Wildlife is abundant in this area including grizzly bears which may be seen when we visit areas below our camp. Two pepper guns will be in the camp supplies.

Cost of the camp is \$250. which is payable when the application is made.

If you wish to attend this camp please complete the attached registration form and include a \$250 cheque payable to "FBCN Camp" and a large self addressed envelope.

Send to: Barbara Blow
#2 - 1811 Purcell Way
North Vancouver, BC V7J 3H4
Phone 987-8492

or phone Norman Pursell 922-7992 if you require additional information.

Registration forms next page ->

FBCN CAMP INFORMATION

Bamfield Marine Station Camp September 6 - 12, 1993

Are you planning to spend a week on B.C.'s beautiful West Coast. Full details were in January **BC Naturalist** - page 31, and also included was a report by Ros on last years camp. The May issue will carry another highlight of the camp by Geoffrey Griffiths.

Camp Fee:

\$450.00 for the week if paid in full before March 31, 1993
\$465.00 for the week after April 1, 1993

Reminder:

Registration fee increases on April 1, 1993 to \$465.00.

Health:

Campers must be in reasonable health - be able to handle stairs, a steep slope down to the dock, and be able to get in and out of boats.

How to Register:

Complete the form and send it along with cheque made payable to:

Federation of B.C. Naturalists - Bamfield Camp
c/o Doreen Shaw - Camp Coordinator
321-1367 West Broadway
Vancouver, B.C. V6H 4A9

Please include a large stamped, self-addressed envelope.
I may be phoned at 263-3967.

Registration is Limited - Plan your holiday NOW!

Bamfield Camp REGISTRATION FORM

NAME _____

ADDRESS _____

CITY _____ CODE _____

PHONE _____

Naturalist Club Affiliation

Do you wish to room with a friend? _____

With whom?

Salmon Arm Camp at Gardom Lake June 20 - 27, 1993

REGISTRATION FORM

NAME: _____

ADDRESS: _____

CITY: _____ CODE: _____

PHONE: _____

Naturalist club affiliation: _____

Sleeping (circle preferred accommodation)

Main Lodge yes no

Cabin yes no

RV yes no

Require transportation yes no

Height of the Rockies

REGISTRATION FORM

NAME: _____

ADDRESS: _____

CITY: _____

POSTAL CODE: _____

TELEPHONE NO: _____

Naturalist club affiliation: _____

Check preference:

1st week July 28 to August 3 ☐

2nd week August 4 to August 11 ☐

If both weeks are suitable give 1st and 2nd
choice preference.

Do you require transportation? yes

NB: If you are registering for more than one
person, please give the name/s.

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Tel: 868-3900
S. SURREY --- King George Hwy. at 24th
Tel: 536-4011

MEMBERSHIP

- ☐ REGULAR (Direct)** \$ 15.
☐ LIFE \$400.
☐ SUBSCRIPTION \$ 15.

** Direct individual membership to FBCN

Amount enclosed _____

Donations above the membership fee will
receive tax receipts for the donation.

New Membership _____ Renewal _____

Name _____

Address _____

City _____ Prov. _____

Code _____ Tele. No. _____

Send to:
Membership Secretary
Federation of B.C. Naturalists
321- 1367 West Broadway
Vancouver, B.C. V6H 4A9

3/93

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