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SUPPLEMENT
Pages 11 - 16
in the Times

Whistler still seeks interim trustee representation

The Resort Municipality of Whistler again brought up the question of a replacement school trustee for the interim left vacant by the resignation of trustee Nancy Raine who left for Switzerland in late August.

At that time, the board decided not to fill the position as there would be an election in November and Raine was coming to the end of her term. However, it did have the option of recommending someone to replace her and asking the minister to approve the choice.

The problem arose when Raine indicated that two people in the audience would be available to take the position. They were Bob Mallett, a teacher, who was not teaching in this district and Judy Fosty, president of the PTA for the Myrtle Philip Elementary school.

At the same time, the Whistler council suggested that Paul Burrows, a former trustee, be appointed to fill the two-month term.

The board, feeling that any approval for any candidate would be tantamount to endorsing that candidate in the November elections, decided not to recommend anyone.

Since then there has been continual pressure on the board to accede to the wishes of the resort municipality, the latest taking place at last week's school board meeting in Pemberton on October 13.

Alderman Terry Rodgers wanted to know why the resort municipality's request regarding Burrows was not granted.

Chairman T. J. MacDonald

said the recommendation, a person the board knew, was a good choice. But the previous trustee had given the board two other names and members felt they would be criticized no matter who they chose. Therefore, they decided to go without a trustee from the

area till the beginning of December.

Mallett stated that whoever came in after the election will have to wait till next year's budget to become familiar with the board's problems.

MacDonald's answer to this

statement was that the board makes a decision on a majority basis. "If council feels it should have representation then it should have held an election."

Rodgers stated this was not the board's decision to make.

MacDonald replied by saying

council had the right to call an election or decline. Referring to a statement regarding the amount of money paid in taxes by the resort municipality, he said representation is not by the amount of dollars paid but by the attendance area.

"Rules are not set by the board," MacDonald said. "In setting the basic grant there is a set amount per pupil. We only get 60 per cent of the cost and have to raise the balance ourselves."

"That resulted in a school tax of 50 mills. If Whistler's assessment had not been included our grant would have been \$2.4 million and the mill rate would have been considerably less."

Trustee Betty Shore said there are three people from the community at the meeting and they are all invited to present input to the board. She suggested the agenda was posted at Whistler and anyone there who was interested could attend and bring any questions to the board.

Trustee Margaret Marchant said anything which would affect the entire district would not be

done without any input from Whistler.

"Trustee Raine attended very few meetings and very few committee meetings. We weren't trying to cut you out from anything."

"At the time we made the decision," she said, "we didn't know that Burrows did not intend to run for school board."

She pointed out that nothing had been done about the budgets and will not be till after the new year.

"Budget cuts had been discussed with Raine," Marchant said, "but no decisions have been made since that time."

The board declined to change its stand on the representative question, which will be answered by the elections to be held next month when the municipal elections are also held.

Hydro slash fire escaped controls

A slash fire started by Hydro on the right-of-way between Cheekye and Sechelt, in the vicinity of Folger Creek on the west side of Howe Sound, went out of control early in the week and forestry crews had to be called in to fight it.

The fire was in the vicinity of another one which had burned over a million feet of felled and bucked timber a year ago.

Hydro had been attempting to start the fire during the week and even used a helicopter to fan the flames. The slash burning started over two weeks ago but just before the holiday weekend the crew left with only a watchman on the site. There were no Hydro crews on the scene over the holiday weekend.

On Thanksgiving morning at 7 a.m., the local fire fighting crews were called in to fight the fire on the right-of-way.

According to Ken Bohm, operations supervisor for the B.C. Forest Service, the company had a permit to burn the slash, but the fire had escaped the right-of-way and was burning in some felled and bucked timber.

Bohm said the weather had turned fine over the weekend and this had caused the fire to take off. When the crews left on Friday

it did not appear to be any danger.

He also stated there are a further three kilometres of slash to be burned and had hoped to touch it off on the past weekend if weather conditions were right.

However, Bohm said if the slash could not be burned this fall it would pose an even greater hazard next spring and summer when the weather turns warm.

Jim Whittaker of Phil Whittaker Logging, who has a logging operation in the area, said that last year's fire destroyed over a million feet of the company's felled and bucked timber and they would be suing Hydro.

"A 600-foot-wide strip all the way to Salmon Inlet has been expropriated by Hydro," Whittaker said. "Some of it is good yellow cedar, prime timber which is marketable at present. There is also some balsam and hemlock in the area."

Whittaker was upset because he claimed the company had been negligent for the second time in a year.

He also accused the utility company of using a helicopter to fan the fire in order to get it started. He also said a crew should have been left to guard it even though the weather was cloudy.



Drilling rig at Meager Creek, near Pemberton, where geothermal energy. See alternative energy sources in energy supplement.

Building stats not getting any better

The decline shown in monthly building permits being issued this year is not picking up at all as evidenced in a September report.

The total value of building permits in the district during September is down \$1,147,900 from one year ago.

In the month of September 1981 and 1982, statistics are much the same except for the value.

In the month of September 1981 and 1982, the number of permits is much the same, but the value of them is considerably lower this year. This is due largely to an industrial permit worth \$1,200,000 last year. There were none this year.

However, taking the entire year into account, the first nine months of 1982 reflect a decline in permits of 51 and a value decrease of \$12,568,592.

In September 1982, there were six permits issued for improvements and last year there were a comparable five. Permits for single-family dwellings were equal at one both this year and last.

There were no commercial permits issued in September 1981, but two came through during the month this year.

Yearly statistics point out the largest areas of difference from January to September. There were no permits issued for duplexes, multiple dwellings, industrial or to the school board in 1982.

Those issued for single-family dwellings dropped from 65 in 1981 to 19 in this year and six permits were handed out for commercial buildings both years.

The yearly figures also indicate that most of the work that has been done this year is to improve buildings. And even though the

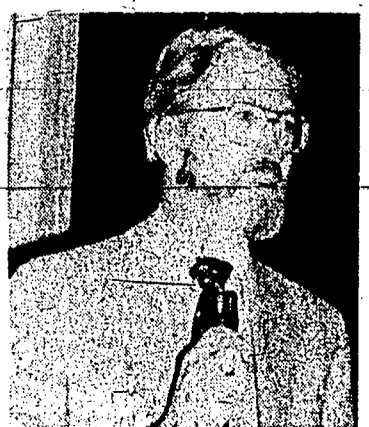
total number of improvements is higher in 1982, at 76, their value is \$200,000 less than in 1981.

Last year, there were 55 permits issued for improvements for a value of \$570,050, but this year the 76 permits had a value of \$364,132.

FMC employees receive safety awards



Steve Ivings, impersonator and comedian.



Conrad Keil, alkali division, Philadelphia.

Four FMC of Canada employees received safety awards at the annual safety dinner held by the company in the Chieftain Hotel on Thursday, October 14.

The recipients, all five-year employees of the firm, were Barbara Hill, plant receptionist, Jerry Mills, a mechanical engineer, Doreen Parker, sales and marketing secretary and Gary Ray, a junior operator who was unable to be present.

Making the presentations were Joe Kass, resident manager of FMC, Conrad Keil, manufacturing director of the alkali division, industrial chemical group, FMC corporation, Philadelphia, Keith Soutar, area manager, John Harrington, maintenance engineering superintendent and Joe Gravkin, plant controller.

Kass said the company was delighted to honour the people who had achieved a service milestone, five years of service to the plant, particularly in today's economic climate.

"We have achieved a level of safety which is outstanding, have completed five years of work without a disabling accident. At the end of December this year, we will have achieved over six years without a disabling accident."

"This will represent" over 600,000 man-hours of work," Kass added.

"We are very appreciative of the efforts which have been put in by everyone here. Since January 1, 1977, our accidents have gone from 22 down to zero, a change which must be credited to the people who work here."

Conrad Keil brought greetings from Philadelphia saying the alkali chemicals division has felt the economic downturn, but he thanked the local employees for their responses.

"The plant looks super and the dedication of the employees to the company gives me a warm feeling. I am pleased with the safety standards at the plant — 600,000 hours without an accident is remarkable."

Gary Hudson acted as master of ceremonies, welcomed the Vancouver and Squamish employees and introduced the other guests. These included Conrad Keil and his wife, Diane; PPWC business agent Ken McKenzie; Local 5 secretary-treasurer Judy Clark; George McFarlane, public relations consultant for the company; Keith Soutar, assistant marketing manager from Vancouver and his wife, Marian; Sim Leong and his wife, Helen, also from the

marketing office and Dorothy Parker, sales and marketing secretary from Vancouver and her husband, Ted.

One of the high points of the evening was the standup comedy routine of Steve Ivings, a former radio announcer from Victoria who now is making his name as a comedian and impersonator.

Among his impersonations was one of George C. Scott as General Patton; Alfred Hitchcock announcing a children's morning program; Gregory Peck, Sean Connery as James Bond, James Mason, Fred McMurray as head of the Mafia, Sylvester Stallone as Rocky III and Walter Cronkite.

Some of his funniest lines included a reference to Margaret Trudeau who "doesn't quite have her chopsticks in the chow mein — but then her husband's not so far along either."

"In the words of Pierre Trudeau," he said and made the famous gesture.

Referring to Walter Cronkite, he said "Not only shall we CBS but we shall hear it, too."

But perhaps the funniest line was his remark that a remake of Lawrence of Arabia was contemplated with Dustin Hoffman as Lawrence and Dolly Parton as the camel!

WILLIAMS, ROGERS ON SQUAMISH TOUR

A tour of dykes in Squamish was the order of the day Monday when MLA Allan Williams and environment minister Stephen Rogers were in town.

Mayor Jim Elliott and public works superintendent John Payne took the two for a drive along the dykes because, as Elliott says, "neither have seen the dykes first hand."

The intent is to show them what has been done and what is still to be done on the project.

"I hope a lot will come out of it," Elliott stated.

Other subjects may come up for discussion, but the primary purpose of the visit is to give Williams and Rogers a "first hand view" of the flood protection. Council was not informed of the visit and did not sit for a meeting.

SWEENEY SIGNS WHITECAP CONTRACT

Squamish's local boy who made good in the soccer world was signed to a one-year contract with the Vancouver Whitecaps on Thursday.

Mike, who has previous experience with both Canada's youth and national teams, has spent the last three years playing for the now defunct Edmonton Drillers.

Although it is unknown at this time how Mike will fit into the Whitecaps line up, it is certain Mike can help the team. He seemed happy about the announcement since the Whitecaps have always been one of his favorite teams.

This, plus being close to his family and a chance to play for one of the better teams in the NASL, should inspire him to a good showing with the Caps.

Look in this week's sports section of The Times for the first of a two-part series on Sweeney by Dwayne Thomas.



Safety Award winners at the FMC Awards and Safety banquet were l. to r., Barbara Hill, plant receptionist, Jerry Mills, mechanical engineer, and Doreen Parker, sales and marketing secretary. Missing is Gary Ray, a junior operator. All recipients had five year safety records.

the Times

College council confronts faculty

Trustee T. J. MacDonald, who is also a member of the Capilano College council, told the board of school trustees last week that council has been battling the faculty over the question of directors' instead of coordinators.

"In some ways," MacDonald said, "coordinators are not good administrators. Union members cannot do this so a middle management instruction staff was created."

The question has come down to "who runs the college, the administration and board or the faculty?"

MacDonald said that adding directors had not created any additional costs.

"Some course coordinator's

positions have been deleted and director's positions created.

"We are trying to serve more people with less money," MacDonald said.

Capilano College chairman Hilda Rizun said that "it is improper for any side to make comments while a matter is before the Labour Relations Board."

She also said she felt the board had gone far beyond the realms of employer-faculty relations in trying to deal with this problem.

"It will result in more management by management and less by faculty," she added.

Apart from these problems, MacDonald pointed out that "enrollment is up and the budget down."



Presenting the safety awards at the FMC banquet last week 1. to r. Joe Kass, resident manager; John Harrington, maintenance engineering superintendent, Conrad Keil, alkali division FMC,

Philadelphia; Keith Soutar, area manager and Joe Gravkin, plant controller.

Board queried on special programs

Max Halber asked the school board if there would be any special funds for transportation costs, such as taking the band to Vancouver during the school term.

Last year a trip was funded and the band would like to go to the city again this year, or perhaps be able to afford to have a group come into Pemberton.

Trevor Harris, district superintendent of schools, said the quality of the band program is

improved by trips. However, restraint programs are hard on the monies needed for them.

Chairman Jim MacDonald said whether monies were available would depend on what the board is able to keep in the budget.

Trustee Margaret Marchant and some districts have automatically cut out all travel allowances since the restraints were imposed. She wanted to know what parents groups are thinking on these questions.

Pemberton Library news

"What is the library question?" "How are we to bring it to the attention of Pemberton Library users and nonusers alike?" That was the main topic of discussion at the October Library Board meeting.

With the library referendum only one month away, watch for information about the library — facts and figures and reasons why it deserves support from the community it has been serving for four years. Do you know how much is required to operate the library and where this money comes from? Good news brought to us from

the assistant director of Library Services in Victoria, Ron McKenzie, at a dinner meeting hosted by the Library Board this month was that book grants will not be reduced this year.

A set of new shelves will be built this fall, thanks to a generous donation from the Pemberton Lions Club. They will accommodate the 250 new books Victoria will be sending our way shortly.

The library has made an agreement with Mountain FM Radio to house equipment required for local broadcasting. When you hear it from Pemberton — you'll be hearing it from the Library!

Slash fire at Brandywine

A water bomber was called in last week to help control a slash fire which escaped from a controlled burn on Pacific Logging Company's timber sale.

Forestry officials said the slash fire was started to burn a landing and escaped into some old slash. The fire was spreading slowly but the company wanted to get it out before it spread any farther.

Reports of other fires in the area were false. A number of controlled slash burns took place in the Pemberton area and in the Mamquam Valley.

Dynamite found in Ashlu

On October 11, police received a report about a portion of a box of dynamite being found in the Ashlu Valley about 60 miles from Squamish.

There were approximately 200 sticks in the box.

The bomb disposal unit came up from Vancouver, picked up the explosives and destroyed them.

Police said it was not part of the dynamite stolen from the highways department but appeared to have been there for about a year.

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GOVERNMENTESE OR DOUBLE SPEAK

Government employees seem to have their own ideas about office lingo. And, unless you know how to translate it into common, everyday English, you might have trouble defining some of their terms.

The following definitions should cause a few laughs and were found in the forest service's inside newspaper Grass Root.

1. **It is in the process.** So wrapped up in red tape that the situation is practically hopeless.
2. **We will look into it.** By the time the wheel makes a full turn, we assume that you will have forgotten about it, too.
3. **A program.** Any assignment that can't be completed by one telephone call.
4. **Expedite.** To confound confusion with commotion.
5. **Channels.** The trail left by inter-office memos.
6. **Coordinate.** The guy who has a desk between two expeditors.
7. **Consultant.** Any ordinary guy more than 50 miles from home.
8. **To activate.** To make carbons and add more names to the memo.
9. **To implement a program.** Hire more people and expand the office.
10. **(Not accounted for.)**
11. **Under active consideration.** We are looking in the files for it.
12. **A meeting.** A mass mulling by master minds.
13. **A conference.** A place where conversation is substituted for the dreariness of labour and the loneliness of thought.
14. **To negotiate.** To seek a meeting of minds without a knocking together of heads.
15. **Re-orientation.** Getting used to working again.
16. **Reliable source.** The guy you just met.
17. **Informed source.** The guy who told the guy you first met.
18. **Unimpeachable source.** The guy who started the rumour originally.
19. **Classification.** To fill in the background with so many details that the foreground goes underground.
20. **We are making a survey.** We need more time to think of an answer.
21. **Note and initial.** Let's spread the responsibility for this.
22. **See me, or let's discuss it.** Come down to my office, I'm lonesome.
23. **Let's get together on this.** I'm assuming you're as confused as I am.
24. **Give me the benefit of your present thinking.** We will listen to what you have to say as long as it doesn't interfere with what we've already decided to do.
25. **To give someone the picture.** A long, confused and inaccurate statement to a newcomer.
26. **Will advise you in due course.** If we figure it out we'll let you know.

School board briefs

Board members expressed concern about the non-payment of the sum of \$440 per month which the board had been receiving from the District of Squamish since the 1970s for a share of the salary and benefits for the supervisor of the community use of school facilities. A new bill will be sent to the district.

The bill for the charges for false alarms was discussed and the board is prepared to argue the cost, claiming that the fire department report does not coincide with the one by the RCMP. They claim alarms were reset before the maintenance people could find the cause of the trouble. The department was asked to recheck the bill.

The Birken people want to get into the school building to do some work as soon as possible and

this could possibly be permitted by the board. There is still no word on another possible school site.

Pemberton is still anxious to have the late bus for after-school activities. However, the bus will not go to Whistler unless there are at least eight students who will be taking it.

The bus also takes students to Mount Currie after they have participated in extra-curricular sports or other activities.

The use of the bus will be monitored regularly and while principal Mike Dennison felt there would be no problems in fall and spring, use of the bus could drop in winter.

Mrs. Pietila wondered if the bus could go to other areas as well. The Birken-D'Arcy area was suggested as well as the upper valley. T. J. MacDonald suggested a review of the entire situation.

A resolution for the purchase of a new 72-passenger school bus at a cost of \$41,500. This will be financed from the Capital Expense Proposal No. 5-8B.

A suggestion that Howe Sound school district offer an electronic mail pilot project was turned down with the board feeling that it had done its fair share of pilot projects.

It was felt that some other board could take over this one.

A report on the number of students living on Blackwater Lake Road was presented to the board with nine students there now and one more expected in the spring as well as two more by 1984.

These students are eligible for the transportation allowance. The board asked for the report as it is an argument to be used for improvement to the road.

However, representative Shirley Pietila said some families are moving closer to the Pemberton-D'Arcy road so winter plowing may not be a problem.

A report by trustee T. B. M. Fougberg stated that the playing fields at Pemberton are in good condition. A meeting had been held with Whistler council regarding the fields at Myrtle Philip school. It is hoped that the agreement regarding the fields will be signed in the near future.

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Storey speaks to Rotary on management problems

Gordon Storey, of G. D. Storey and Associates, consultants in employee relations and an instructor at BCIT, spoke to the Squamish Rotary Club on Thursday, October 14.

Stressing the importance of employer-employee relationships, particularly in these rough economic times, Storey said there is concern about employees and what is happening in B.C. firms.

One of the points which has been demonstrated in the past year is how poorly prepared companies are to handle times of economic stress.

Management training is based upon organization and growth. Few managers are exposed to restraints and don't know how to handle it. They regard contraction as failure and develop a doom and gloom attitude.

Personnel people are trained in the same way. Management can't afford to fall into these traps.

"Decision making and authority become centralized in time of restraint," Storey said. "Less time is spent in consultation before action is taken."

"Firms under economic pressure are liable to become less tolerant."

"New ideas must be generated. There is a need for someone to help workers and management to come up with new programs to help adjust to conditions."

Storey pointed out that companies must help workers develop new skills and that a reduction of the work force may be necessary to keep some firms alive in these times.

Reduced work hours are another way of coping with economic downturns and he asked

how many people had taken part in work sharing programs in order to have no layoffs or adjustments.

He suggested the use of government manpower adjustment programs.

Speaking of the recovery, which will come, he warned his listeners that things will not go back to the way they were. "We can't afford to go back to that," Storey said. "There will be different kinds of employment."

"There will have to be a rebuilding, reorganizing and a shifting of employment."

"There must be more concentration on skill industries, in computerization and there must be better management."

Storey said there was a tremendous opportunity and a tremendous challenge. Among the challenges he listed were the technology, demographic challenges and cultural challenges.

The technological challenges included the increase in computer use. Estimates in the United States say that by 1985, 50 per cent of all office-type work will be done in front of a keyboard instead of the 20 per cent which is being done now. If the American change occurs it will follow that Canada will not be far behind.

Demographic challenges refer to the surplus of labour, the aging population, the high participation of women in the labour force, the shortage of a new labour force such as teenagers. He also said that by the end of the decade there would be a high shortage in middle management.

The cultural challenges referred to the percentage of working women, the shorter work week and the quality of the working

life. Other pressures are from government, human rights people, the affirmative action group, the promotion of women to management areas and native groups.

Storey pointed out that doors were closing to immigration; we shall be using our own people instead of those from other countries; and that environment problems and ecological costs are not going away.

"We cannot expect to see rapid growth in future," he told his audience. "There will be different ways of managing business."

He cited internal pressures which must be faced such as the unions taking a more active role.

Storey concluded by saying that we are stepping into a whole new age, into something exciting and dynamic.



Gordon Storey, guest speaker, who talked on employee management to the Squamish Rotary Club chatting with Dr. Kindree following the meeting.

BLOOD DONOR CLINIC WEDNESDAY, OCT. 27

A blood donor clinic will be held in the Civic Centre auditorium on Wednesday afternoon, Oct. 27 between 2 and 8 p.m.

Teams will be competing for the "Blood Cup" and there will be draws for the Texas mickey and other prizes donated by the Kinsmen and local merchants.

The need is great and once again the Lions Club, which is sponsoring the clinic, is appealing to the public to turn out and exceed the total for the last clinic which set a record.

Be sure to turn out on Wednesday, Oct. 27 at the Civic Centre.

Hiker killed in fall on Lions

A hiker was killed in a fall from a ledge near the top of the west peak of the Lions on Wednesday afternoon, Oct. 13.

RCMP in Squamish report that two hikers, Charles Fournier, aged 23 of Vancouver and an unnamed companion, aged 24, started out from Lions Bay at about 11 a.m. to climb the mountain.

They were hiking in the area above Lions Bay near the summit of the west peak when the young man lost his footing and started to

slide. He fell over a ledge about 100 to 150 feet to the rocks below.

Fournier was stranded on the ledge and not able to move. Hikers in the area alerted the RCMP and the local detachment was notified. The RCMP helicopter happened to be in Squamish so an officer flew down to look at the situation.

It was decided to call in the local EHS group and Bob Blomster, along with Cst. Cliff Doherty, went to the scene in a local helicopter piloted by Dave Van Patten.

The rescue was effected about 5:20 p.m. when Blomster was lowered to the scene on a long line affixed to a safety harness and assisted Fournier to safety as well as bringing out the body of the deceased hiker.

The name of the deceased is being withheld pending notification of his parents who are in Europe but he is from eastern Canada.

Few accidents in past week

Only a few accidents have occurred in the past week with only one injury accident reported.

On October 10 at 2 p.m. on Highway 99 near Furry Creek, Graeme McCready of Vancouver was injured and taken to Squamish General Hospital following an accident involving a motorcycle he was driving.

McCready rear-ended another vehicle which was stopped for traffic on the Furry Creek hill. Damage to the cycle amounted to \$2,000. The case is still under investigation.

On the same day, on Highway 99 near Britannia Creek bridge, there was a collision between a vehicle driven by Elsie Lamb of Squamish and one driven by Toru Saito of Colorado. Damage in each case amounted to about \$1,000.

Lamb was travelling north when the Saito vehicle left the Gulf station, pulling out in front of her. No charges have been laid.

On October 12, on Highway 99 near Furry Creek, Henry Suin of Vancouver was slightly injured when he claimed his car was forced off the road by blinding oncoming lights. Damage to his vehicle amounted to \$1,500.

Breakin at Burger Baron

The Burger Baron on Cleveland Avenue was broken into on the night of October 10.

Thieves broke into the building and rifled the cash register. They only obtained about \$7 in cash.

The case is still under investigation.

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BONFIRE AND FIREWORKS

Saturday, October 30th at Centennial Field. Come to the great bonfire at 6:30 p.m. Free refreshments will be served, fireworks display at 7:30 p.m. No charge

MASQUERADE SKATE

Sunday, October 31st from 2:00-3:30 p.m. Come in costume see if you can recognize anyone!! Open to all ages.

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School bus safety

Canadian students are taught that motor vehicles have to stop for school buses boarding or disembarking passengers with signal lights flashing. The younger ones especially are trusting and, therefore, have a sense of security when crossing the road which is based on a false premise, for all too often the driving public simply does not respect those flashing signals.

October 17-23 is School Bus Safety Week in Canada and the public is being urged to become involved, whether individual people currently have students using school buses, or not.

Some may wonder "how?" Here are some suggestions:

- Ask the police department in the community to enforce the no passing laws more

strictly during the special week, in order that motorists might become more aware of the hazards involved.

- Ensure that all drivers in the family understand the law as it relates to school buses and the reasons for it.

- Participate in discussions about school bus safety with students and show them that adults consider this an important subject.

- Attend displays or demonstrations staged by local school authorities or local school bus operators.

- Take a defensive driving course to ensure personal driving habits keep up to scratch.

Children will see posters showing Elmer, the Safety Elephant exhorting them to "watch for Big Yellow." Every road user should do the same.

Take time to stop

Considering the number of vehicles on the highways today, the odds of having an accident are increasing.

Each day, in this area and across the province, thousands of youngsters are bussed to and from school, taking chances on the highways.

Drivers are trained people and take every precaution in picking up and discharging students along the roadside, but unfortunately all the precaution is useless if an impatient or negligent driver ignores school bus signals.

There have been reports relayed to police concerning drivers passing stopped school buses as students were being discharged. The potential danger of the situation is obvious.

As a child leaves the school bus and attempts to cross the road, he or she expects that cars behind the bus have also stopped. But that hasn't always been the case.

There have been complaints about drivers ignoring the flashing signals and only alert

reactions by students have prevented a tragedy.

Safety education has been pounded into children at school but it is the drivers who need the education now.

But then the children are educated in bus safety procedures and for the main part are sincere in their efforts. Drivers, on the other hand, think more of their time than the life they may be endangering by passing a bus.

It is possible that something could be malfunctioning on a bus and that flashers would not be working at a bus stop. But drivers should have the courtesy to stop behind a motionless bus to see if any students are discharged before making any moves.

This is school bus safety week. Remember children are boarding or leaving buses and that they do pop out from behind the bus or even in front of it. Don't be responsible for an accident or for harming a child because you were in a hurry or forgot to take time to stop.

Propane is practical

In the hesitant race to provide alternatives to expensive and scarce petroleum fuels, propane-powered vehicles may be the first across the line. Hydrogen, electricity, alcohol are all strung in there someplace, but propane, which we have in sufficient abundance to export vast quantities each year, seems to be the most practical at the present time.

One of the big three carmakers will produce a limited number of propane-powered cars this year and as acceptance increases that number will certainly be increased. It is expected that the propane cars will cost initially about a thousand dollars more than their gas-driven counterparts, but certain after-purchase benefits will offset that higher capital cost.

One eastern Canada company is well into the conversion business equipping existing

vehicles with the necessary fuel tank and carburetor changes for a price of about \$1,500.

Propane presently sells for about two thirds the price of unleaded gasoline, but that is not all saving. Fuel efficiency (kilometres per litre) is about 15 percent less for propane as compared to gasoline, but refinements in engine systems are expected to narrow the gap to ten percent or less. In addition, clean-burning propane means much less air pollution and certainly less engine maintenance. One person we know says he has been operating his vehicle for several years with no engine problems whatsoever.

Most drivers who are fed up with constantly-increasing prices for offshore oil and the escalating costs proposed for Canada over the next few years, will certainly be interested in a viable alternative.

About guest editorials

The Times is looking for local people who would be interested in writing guest editorials. The subject of editorials should be of general interest to the community whether it be local, provincial or national, or political in content.

We are attempting to add a new dimension to the newspaper and give our readers a chance to express and explain their points of view.

Anyone who is entertaining this suggestion is asked to submit it to our Cleveland Avenue office or contact us at 892-5131 for more information.

howe soundings

Must take time out to spend a column on the beautiful fall weather we have been enjoying. This was truly a year for Thanksgiving ... as far as the weather was concerned. Bright, sunny days and crisp, cool nights with stars so bright you could almost have reached up and plucked them out of the sky.

On the Thanksgiving weekend, we went up into the mountains and the scenery was magnificent. It was the first time I had ever been into the Stawamus valley in good weather. Usually it is raining or the mist is down to the valley floor, but this was a gorgeous day with high clouds and a bright blue sky.

The peak of Habrich Mountain, a black triangle piercing the sky, was flecked with snow, a presage of winter to come, but the lower peaks were still green, with only patches of colour here and there where the trees are starting to turn.

After breaking out into the cleared areas of the valley, the road follows the Stawamus River for a distance before climbing to the height of land where it breaks over into the Indian River. On the left, the buttresses of the Sky Pilot, also edged with snow, loomed over the valley, the centre one looking like a pillar, almost round and seemingly flat on top.

Toward the Indian, the valley opens out and is wider and brighter. Here it has been logged and the old logging scars on the right of the valley are beginning to heal. At the top of the pass, estimated to be about 3,200 feet, there are some low, swampy areas which must be filled with mountain flowers in the late spring. Now they were bright gold, the swamp grass having turned colour with the first frosts.

This is one of the proposed routes for a new road from the Lower Mainland to Squamish and while the valley of the Indian River appeared to be wide, the descent on the Squamish side was very steep, coming from the height of land to sea level in only a few short miles.

The existing road is narrow and steep, one stretch on the other side of the divide was really hairy, with steep,

narrow pitches, rutted by water courses which had crossed it during the wet weather.

In some places, you had to decide whether you wanted to ride the tops of the rocks, or risk losing the bottom of your vehicle. Other spots looked so muddy it was certain you'd need a cat to bring you through if you got stuck in the mire.

But it was a beautiful day and just to be in the mountains again, in the crisp, fresh air, with the scent of the evergreen trees and the waxy tang of autumn in the air, was well worthwhile.

But a day in the open is completely exhausting and it took a hot bath to get the jolting of the four-by-four out of my system and I was certain I could have slept for an hour if there had not been an exciting ball game to watch.

On Monday, a drive up the valley was delightful. There is a vine maple clump near the T where the old valley road intersects the new one from Highway 99 to Cheekye that must be the brightest red in all the countryside. It is a brilliant blaze of colour. Smoke drifting up the valleys made one think of the lines of the poem which say:

"Along the line of smokey hills,
The crimson forest stands,
And all day long the bluejay calls
Throughout the autumn lands."

Granted, this was written about eastern Canada, but it so aptly described the beautiful days we have been having. On Tuesday, that same smoke caused one of the most beautiful sunsets we have seen in Squamish for a long time. The sky was orange, crimson and mauve and Garibaldi loomed through it, ghost-like, with the ice patches glittering in the fading light.

In the middle of the week, a trip to Pemberton was necessary to attend a school board meeting and it was a delight. Another clear day with skies getting progressively bluer as one neared Pemberton. The blueberry bushes along the highway were turning colour, adding a brilliant note of crimson to the scene. The grass on the ski slopes at

Whistler was golden, the mountains etched against the sky, with glittering snowflakes and peaks flecked with the first fall of snow.

The rivers tumbled clear and green, icy in their crystalline colour, alongside the highway, frothing in the rapids and settling in emerald green pools in the still places. The Tusk, sharply outlined against the sky above the snow flecked meadows at its base, brooded over the landscape and all the lakes along the road were waiting for the icy touch of winter.

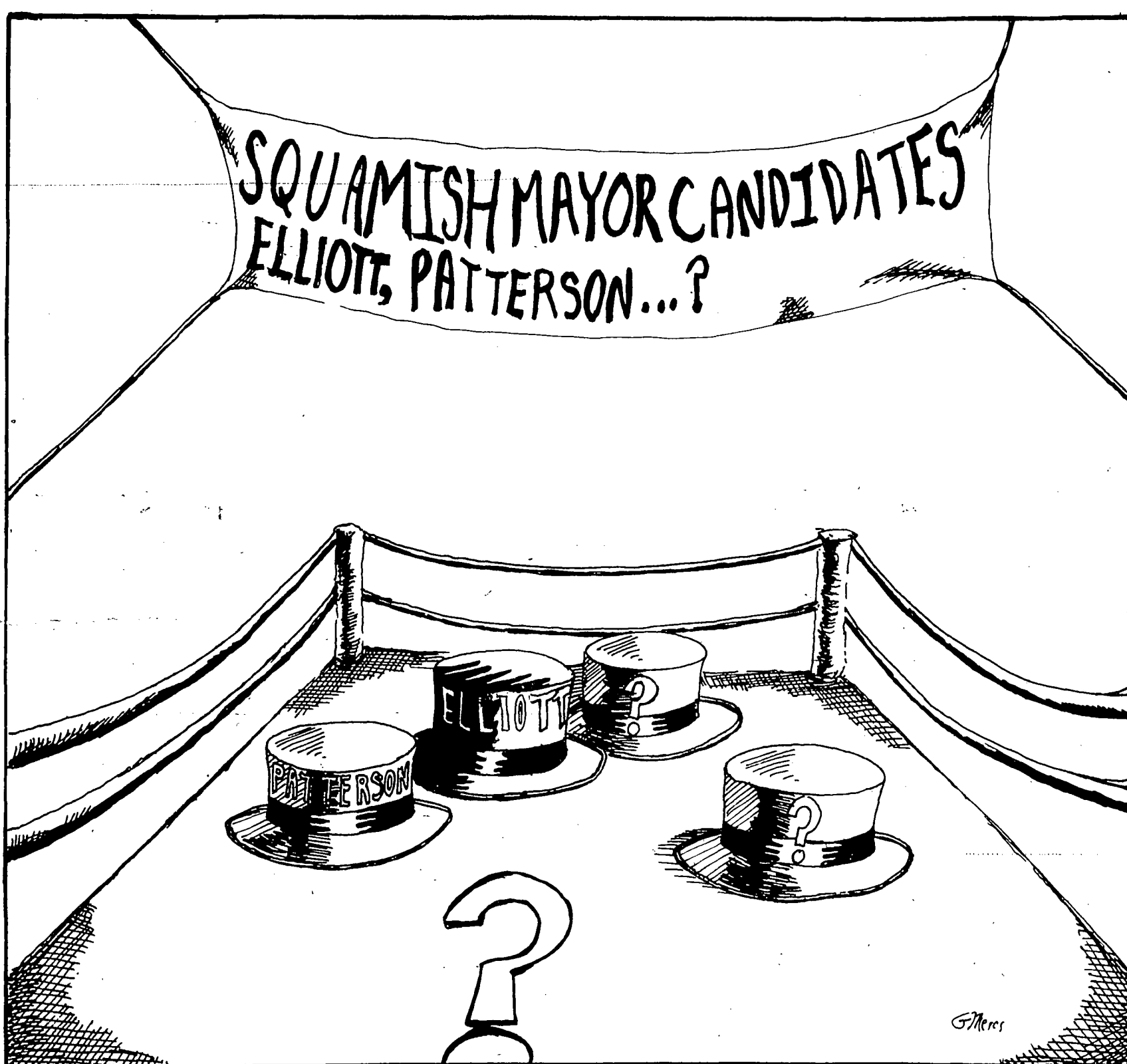
Along the roadsides, the pearly everlastings were still blooming, some of them just starting to bloom while others were graying with age. The tall stalks of the mullein, going to seed, loomed above the sage gray leaf rosettes and in some of the small ponds, if you looked closely you could see the cranberries, glowing like jewels against their evergreen leaves. On the rock roadsides, the bearberry vines were splayed across the gravel or the rocks, each vine bearing its quota of scarlet berries.

The lily pads on the ponds were curling with age, the aquatic plants drooping into the still waters below and along the road the mountain ash trees, not really trees but more like bushes, were weighed down by their clusters of scarlet fruit.

In the Pemberton valley, Mount Currie brooded over the community, its icy pinnacles and snow-powdered slopes glittering in the sun, while below the fertile valley was turning from green to gold in the fall weather. Harvests had been good and the fields were rich and dark with fertile soil.

Yes, it was a Thanksgiving weekend and one we could be thankful for. Maybe the economy is on a downturn but we are still one of the more fortunate countries in the world as well as one of the most beautiful, blessed with a wealth of fresh air, clean water and fertile soils.

We are one of the healthiest nations in the world, with no masses of starving people, or people oppressed by vicious or despotic governments. Many people in the world would be glad to exchange their problems with us.



wonderreading by alex

fiction with form

For value in this day of inflated book prices, Isaac Bashevis Singer's "Collected Short Stories" (Farrar, Straus, Giroux; New York) must be somewhere near the top. The book contains 47 stories chosen by the author from his works published over a 30-year period beginning in 1952. They vary in length from two pages to 20 and every one contains enough drama, emotion, character development and insight to make a complete novel.

Singer tells very little about himself in his introduction to the book. The publishers tell even less, aside from the fact that he won the Nobel prize for literature in 1978. The award came as a surprise to book editors in general; the author was obviously not well known.

The relative obscurity of such a superb artist is easy to understand. In an age of hyperbole, his stories are unassuming, understated tales of unassuming people. And they have form.

Though he avoids personal details, Singer does offer some insight into his approach to writing. His masters, as he calls them, are such people as Chekov, Maupassant and the writer of the Biblical account of Joseph.

From them he has learned that "a short story must have a definite plan; it cannot be what in literary jargon is called a 'slice of life.' ... The writer should not even try to dabble in psychology and its various isms. Genuine literature informs as it entertains."

The stories in this collection do just that. The earlier stories have to do with village life in Poland as seen and experienced by the Jewish population. But these are not mere gobs of Richler-type paranoia, accusation, self-pity and filthy language. They inform the reader of life as it was in pre-war Poland and they make no attempt to suggest that it could have been either better or worse.

The characters are real people who happen to be following the Jewish customs, not Jews who are always

hovering under the threat of a blood bath of one degree or another. The tragedies which occur regularly are traced to a mythical force which the writer refers to as "evil," though usually he makes no attempt to give evil any particular human form.

The harshness of the plots is invariably softened by a bit of sentiment, even inspiration.

Particularly moving is the story of the village shoemaker who has carried on a five-generation-old family tradition as maker of the best shoes in the district. He teaches his seven sons his own skills and expects them to carry on where he leaves off. When, one by one, the sons leave for a new life in the new world, he is saddened but he continues to serve the villagers as his forefathers had done.

It takes a war in Europe to persuade him to leave and to join his children in New York where all have made a success of the shoe-manufacturing business, American style. And it is only after an emotional war within himself that he is able, with the support of his sons, to find contentment amongst daughters-in-laws and grandchildren who do not speak his language.

The denouement is the picture of the old man working at his cobbler's lathe in the hobby room of his wealthy son's home. He is joined each week by his seven sons, gray-haired executives all, who for that one day don their aprons and take their place at lathes as they had done in their youth. It is one of those warmly sentimental scenes which have all but disappeared from modern fiction.

If Singer disapproves of psychology, as he claims, he certainly does not avoid philosophy and metaphysics.

In the very brief "Re-encounter," a man and a woman, one-time lovers, meet at a funeral parlour each having been called there for the funeral of the other. The presence of their bodies in the caskets convinces them that they have in fact died and as they watch their own funerals, they discuss their disappointment in the lack of drama at their deaths. "Of all my disenchantments," one says, "immortality is the greatest."

Singer packs a great deal of meaning, visual and philosophical into a brief sentence.

Of one of his characters he writes: "His body was short and broad as if his midsection has been sawed out." The desperation felt by a penniless and hungry writer is expressed by the simple statement, "I was going to meet Esther that night and starvation leads to impotence."

That is as close as he ever comes to specific references to sexual activity. Yet in most of his stories, he deals in considerable depth with the struggle between the desires of the flesh — sometimes quite strange desires — and the restraints of the soul. Religion obviously influences his thinking a great deal, but he is neither prude nor bigot, merely a skilled writer who is able to handle intimate human situations with taste and abstract themes with directness.

He is no paranoid, either about his race or his religion. But he is an artist. His book can be studied to advantage by anyone seeking instruction in the art of short story writing, an art which, according to Singer, is the most challenging to the creative writer. It can be equally rewarding to those who read merely to forget their own woes through being exposed to those of others, objectively examined.

The objectivity extends even to those stories which suggest autobiographical details and are written in the first person. The story in every case takes precedence over the "I." That fact alone would make the book unique.

The Times

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report from the legislature

By BILL BENNETT

There are four main points to keep in mind about your government's education legislation enacted this sitting.

- It will preserve jobs for teachers.

- It will preserve educational services for our students, including special education.

- It is fair to teachers, who are only being asked to bear their fair share in this time of restraint, along with other British Columbians.

- It will save the taxpayers money.

Most British Columbians realize the need for restraint in these tough economic times, and this province has led the country in bringing in a comprehensive program of restraint on govern-

ment to bring about economic recovery.

The rest of the country is now following. Even Ottawa has taken the first step on the road to restraint with its Six and Five Program, although it still has not undertaken the tough decisions needed to curb its own spending.

Only the opposition opposes restraint. At the federal level the NDP criticized the recent federal budget with its \$20 billion deficits as being too restrained. The federal NDP was advocating an additional \$5 billion in spending.

In British Columbia the NDP has attacked and opposed your government's restraint program with hardly a letup.

But most British Columbians are agreeing voluntarily to par-

ticipate in restraint. The province's doctors, through their elected executive, have promised to give back \$30 million. Other health professions, including dentists, have also committed themselves to participating in restraint.

Municipalities have agreed to participate in the restraint program by cutting back on increases. Government workers have agreed to a six percent average wage increase. Members of the legislature, including cabinet ministers, have rolled their salaries back by ten percent.

Teachers and school administrators must play a part as well. It is only the teachers' federation and the NDP who are saying that teachers should be im-

mune from the economic realities that face other people of the province, such as unemployed forestry and mine workers, small businesses, and large businesses who are facing bankruptcy.

The NDP wants special consideration, special privileges for teachers. This government stands for equal treatment for all and special privileges for no one.

We are asking school teachers to participate this year with other British Columbians in economic recovery by forgoing pay for non-instructional days — that is days on which they do not teach, such as professional days. They may pursue professional training and development on their own time as other public employees do.

And we are asking them to

agree to shorten the spring school term by one week and make up the time through an additional 13 minutes a day to ensure no loss of instructional time.

Teachers last year received an average settlement of 17 percent so by agreeing to the government's proposal they would in effect agree to a rollback averaging four percent.

It would mean there would have to be no teacher layoffs during this entire school year.

It must be borne in mind that even with the restraint program being asked of the teachers the provincial contribution to educa-

tion will have increased this year by 15 percent over last year, compared to an overall increase in provincial spending of just 8.5 percent.

Your provincial government is committed to preserving and enhancing our educational system. We believe the system can be improved and that by improving it we can get better value for the taxpayers and the students for the money spent on education.

The legislation is designed to preserve our educational system, to preserve jobs and to do it within the taxpayers' ability to pay.

AS I SEE IT

BY RAY KEYES

With all the uproar lately over whether or not there is going to be an election in British Columbia and the campaigning by the Social Credit and New Democratic parties, one political group has been remaining in the background quietly amassing votes.

The name of this party is the Western Canada Concept party, whose main aim appears to be separation for Western Canada, or at the very least, to bring to the attention of the east that Canada does not end at the Manitoba-Ontario border.

The fact that they are amassing votes in the west was proven when they recently won a seat in the Alberta legislature. The WCC party must be taken seriously. It is being watched carefully, I am sure, by Ottawa.

In listening to different people speak of separation, I'm amazed at how many think the four western provinces can successfully go it alone. Maybe we can, but I have serious doubts.

At the present time all B.C., Alberta, Saskatchewan and Manitoba really have resources with related industry to match it. What we do not have is a heavy manufacturing base to sell our finished products.

One of the biggest complaints many people have with Eastern Canada is the unfair freight rates and if we were to separate, Eastern Canada would be made to

pay a fair shipping price. There is no guarantee, however, that if we did separate the east would even buy our resources. And why should they?

Everything we have for sale in the four western provinces could be obtained and probably cheaper, in the United States, especially when they would no longer have to pay their share of upkeep on the expensive Canadian Pacific and Canadian National Railways — railways we would need to get our prairie grain to market.

As for looking to the United States for help, that is an absurd idea. One of the main reasons we are in our present economic slump is because of our government's shortsightedness in not finding a more varied market for our products.

Besides this, the United States' forest industry is also suffering and hardly needs to have our logs swamping its market as it complains we are already doing.

The same, of course, goes for our grain. It already competes with U.S. grain sales on world markets. The United States, I'm afraid, would far rather see British Columbia, Alberta, Saskatchewan and Manitoba become the 51st, 52nd, 53rd and 54th states of the United States of America.

No, I'm afraid if we do separate it won't be to become a country, but to become a state.



Loggers' Sports didn't really interest this youngster who was engrossed in playing with her own "tree."

ENGINEERS TOUR MAINTENANCE SHOP

The B.C. chapter of the Society of Automotive Engineers toured the company's Squamish maintenance complex on Oct. 4 with BCR's Squamish engineers acting as hosts for the evening visit.

Special equipment supervisor Bob Deno and project engineer J. Singh Biln conducted the tour.

Organizer Ken Anderson said the two hour tour had to be stretched to four hours because of the group's keen interest in the facility.

Many of the 25 SAE members and guests expressed astonishment at the range of work that can be done at the shops.

LETTERS

Homecoming

Editor, The Times:

Swan River, Alberta, will be celebrating its 75th anniversary in 1983.

Highlighting the year's activities will be Homecoming '83 on July 22, 23, 24.

All former Swan River residents are invited to join us in making this 75th birthday a memorable occasion.

For more information, please write Box 2183, Swan River, Alberta, R0L 1Z0.

The Homecoming Committee

Editor, The Times:

In response to your article on the front page of the October 13, 1982 issue, I feel I should correct one part in the article.

The downtown revitalization committee at no time has discussed or considered the proposed RV park site be included in the downtown revitalization program. The proposed RV site has nothing to do with the program and none of the committee members would ever consider that it be included. Furthermore, I'm certain that the provincial government would not approve an RV site being included in the revitalization program. Once again I would urge The Times to strive for greater accuracy in reporting the business of the community.

Alderman H. G. Carleton - Downtown Revitalization Committee

Window broken

Police were called to the high school on October 10 by a report of some damage to windows on the east side of the Howe Sound Secondary school.

A visit revealed that a window on the east side near the swimming pool had been broken when a loud hailer had been thrown through it.

Rewards offered

B.C. Hydro and Power Authority is offering a reward of up to \$2,500 for information leading to the conviction of people who vandalize Hydro property.

Hydro is especially concerned about damage caused by individuals who shoot at powerlines and insulators.

Damaged high voltage transmission lines are dangerous both to those responsible and to anyone else in the area. Major service interruptions affecting large numbers of homes and businesses can also occur.

Hunting and fishing clubs have carried out education programs over the years in an effort to eliminate irresponsible shooting.

Others can help by reporting to the nearest police or Hydro office any information which might help identify a vandal involved in a shooting incident.

The Criminal Code of Canada provides up to 14 years imprisonment for wilful damage to public property, and a lifetime sentence if the damage places another person in danger.

NOTICE Propane Installations

Propane Safety inspection responsibilities have been transferred from the Fire Commissioner's Office to the Gas Safety Branch, Safety Engineering Services, Ministry of Labour, as of October 1, 1982. Pursuant to this change, all subsequent propane installations will require a permit issued by the Gas Safety Branch.

For further information on this matter, contact your nearest Gas Safety Branch Office listed in the government "Blue Pages" of your telephone directory.



Province of
British Columbia
Ministry of
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Safety Engineering Services
Division
Gas Safety Branch
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| Tarzan - The Apeman | Deathtrap |
| Night Crossing | Chinese Connection |
| Altered States | Goodbye Norma Jean |
| The Burning | To Russia With Elton |
| Apple Dumpling Gang Rides Again | Fistful of Dollars |

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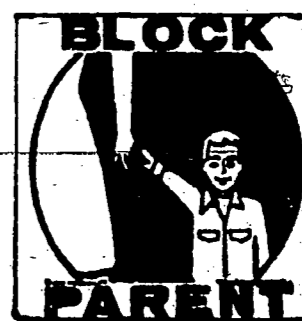
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We're taking up a collection ...but it won't cost you a cent.

October 17th through 23rd is National Black Parent Week, and what we are collecting is potential Black Parents. Are you willing to donate yourself?

If you could be available to a child in distress, even for only a few hours each week, please join us in our drive to make Squamish a safer place for our children. We're spreading applications all around town — the library, the radio station, R.C.M.P. offices, and the Squamish Times' office. Why not pick one up and join our collection?

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the Times

squamish earful

BY MAUREEN GILMOUR

All blood donors (and first timers) are reminded that the Canadian Red Cross Blood Donor Clinic will be in Squamish on Wednesday, October 27. It is sponsored by the Squamish Lions Club and will be held in the Civic Centre from 2 to 8 p.m. The Blood Cup Trophy will be up for "grabs" and food hampers will be drawn for at the end of the clinic.

Scotty and Berta McCrae really enjoyed their three-week vacation. They travelled as far as Bella Coola to visit relatives but Berta said they made lots of leisure stops along the way.

The sixth annual Squamish Road Run starts at 9 a.m. this Sunday, October 24 from the Howe Sound Secondary school track. If you haven't pre-registered, do so between 7:45 a.m. to 8:45 a.m., Sunday. The event, sponsored by the Squamish Rotary Club, will cover 8,000 metres (five miles).

Thinking about running, sports, etc., all Whitecap soccer fans will now see more of "our" homebrew player Mike Sweeney. It appears the Edmonton Drillers are going by the wayside but not Mike, as he signed a contract with the Whitecaps last week.

Birthday persons this week are Shannon Ford, Mitzi Schofield, Lisa Lloyd, Sherrie Sidworth, Deanna Emoff, Adam Ofstie, Dieter Radtke, Debbie Robson, Jennifer Weeks, John Skilj, Bobby Carey, Megan Elcome, Maria Calandra, Susan Poole, Doris Hermon, Laura Eckersly, David Ogilvie, James Iverson, Gregg D'Amico, Robbie Campbell, Kathy Hoy, Doug McKenzie, Sara MacPherson, Alex Hadden, George Gabriel, Keith Bullington, May Leeworthy, Christine Moloughney, Colleen Quinn, Karena Bruce, Ron McCluskey and Gerda Hall.

Miss Margo Liechti celebrates her first birthday tomorrow. Friday, Master Michael Ruggles will be one and on Saturday, it will be Miss Karena Bruce's first.

Everyone is invited to St. Joseph's CWL harvest tea and bake sale on Saturday at 1 p.m. It will be held in the parish hall on Fourth Avenue.

A motoring trip to Reno was taken recently by Fred and Mary Bennett. A busload of seniors and friends enjoyed the fun of Reno last week.

If you have a boy scout, cub or beaver in your home or if you are a leader, you will want to visit the senior lounge, Civic Centre this Saturday, anytime between 11 to 4 p.m. Scout House (from Vancouver) will have a complete store setup with all inventory they handle. This will include uniforms, camping equipment, books, badges and more.

Robin and Yvonne Garrett are

pleased to welcome friends Angie and Keith Avery and two sons, Lee and Darrell, here on a three-week vacation from Australia. This is their first trip to Canada and they are having a great time.

St. John's Anglican Church has an international supper and talent show planned for Saturday at the church. The menu will include food from ten different countries. The program will feature Doreen Ramus, Margaret Johnson and John Slack and Howe Sound Drama Club will entertain. Please call 898-5486 for further information.

A two-week visit to Eastern Canada was a good one for Carol and Hank Lapointe. The highlight for Carol was visiting her grandmother, Mrs. Mary Noonan in Chateaugay, Quebec. They also visited friends and relatives in Montreal as well as taking a trip to Lake Placid, New York, site of the 1980 winter olympics.

It is not too early to think about signing up for the Sea to Sky Country Diabetes Symposium. The date is Saturday, October 30 from 9:30 to 3:30 p.m. in the Legion. Speakers will include Dr. Cudmore, hospital administrator John Dillabough, dietician Liz Lange and world-renowned internist, Dr. John Hunt from Lions Gate Hospital. Films will be shown, equipment displayed and there will be an opportunity for questions and answers. Call 898-5960 or 898-9559. It is sponsored by the Squamish branch of the Canadian Diabetes Association (CDA).

The regional coastal director for the B.C. division of the CDA, Bernard Elliott of Squamish, travelled to Kelowna and Creston on behalf of the CDA and he also enjoyed a few days in Wenatchee, Washington.

Two couples, Harry and Hazel Lassman and former residents Gordon and Shirley Allen of Pender Harbour, have returned home after spending a four-week

vacation in England and two weeks in Spain. They visited relatives in Hastings, Gillingham and Cornwall and when they went to Spain, two cousins and spouses of Harrys went along with them. Hazel said the weather was "excellent for most of the trip."

Hallowe'en is fast approaching and boys and girls 9 to 13 years of age will be pleased to know that the Junior Forest Wardens are planning a Hallowe'en masquerade party. A limited number of tickets are available (\$1.50) at Stu's Supermarket, Highlands Grocery, J & B Grocery and Sun Valley Foods. They'll be prizes, "goodies" and best of all — lots of good, clean fun. Junior Forest Warden's moms will chaperone the party.

Attending the bridge tournament (section) in Kelowna on October 9, 10 and 11 were Faith and Oliver Nelson. The weekend before they visited family members in Port Alberni and Courtenay.

The first and second Brackendale Brownies are busy preparing for a flea market. It will be held in the Highlands Mall from 10 a.m. to 2 p.m. this Saturday and the young ladies and their leaders will appreciate your support.

Wedding anniversary wishes to Mr. and Mrs. R. Ross, Mr. and Mrs. Mike Lloyd, Mr. and Mrs. Jack Wulff, Mr. and Mrs. Brian Gilroy, Mr. and Mrs. B. Howard, Mr. and Mrs. B. Grant and Mr. and Mrs. Bill Mitchell.

Former resident Bill Stockman is the new principal at Golden Elementary school.

Anyone interested in Scottish country dancing is asked to attend a meeting at the Squamish Public Library at 7:30 p.m., Wednesday, October 27. If interested but not able to make the meeting, Sheila Zoltay at 898-9787 would like to hear from you.

DECEMBER WEDDING FOR TAMMI WILSON

Mr. and Mrs. N.A. Wilson of Squamish are pleased to announce the engagement of their youngest daughter, Tammi to Wilf Allsopp, also of Squamish.

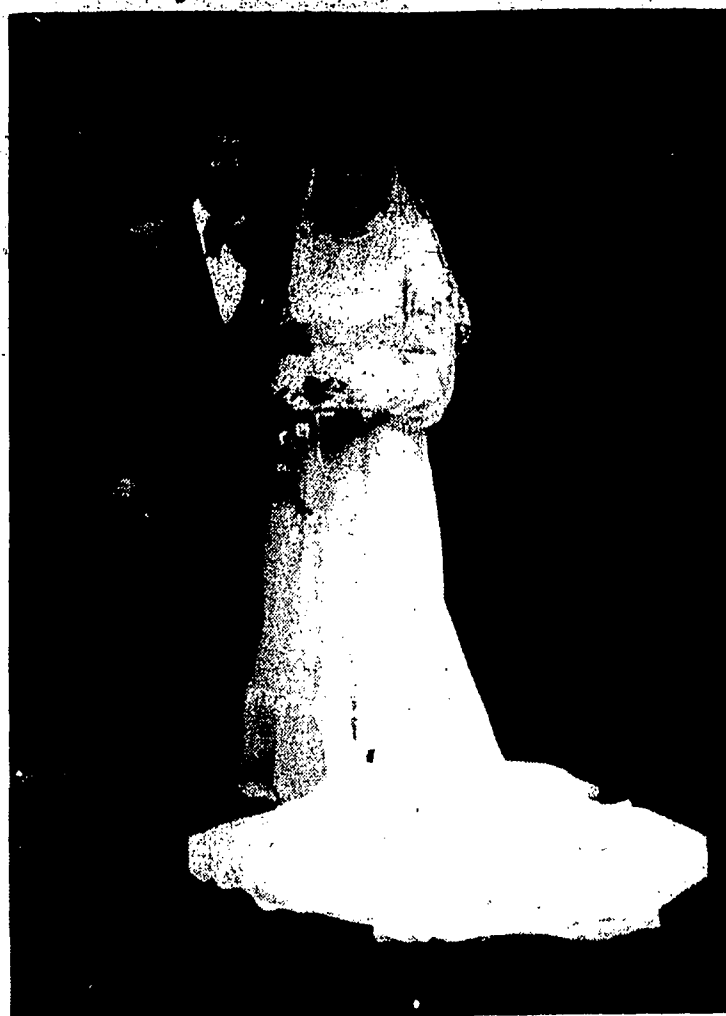
Squamish United Church will be the scene of the wedding on Saturday, December 4.

KELLY CRAIG PLANS NOVEMBER WEDDING

Mr. and Mrs. Lyall Craig of Squamish are pleased to announce the forthcoming marriage of their daughter, Kelly Rae to Tod Murray Short, son of Mr. and Mrs. Allan Short of Richmond and formerly of Squamish.

The wedding will take place Saturday, November 20 in Vancouver.

Donna Lapointe wed in September



Mr. and Mrs. Michael Morrison

(photo by S. Chin)

Donny Mary Lapointe and Michael Murray Morrison exchanged wedding vows before Father Charles Walters and Father John McDougall at a 4 p.m. ceremony held in St. John's Anglican Church on Saturday, September 11.

The bride is the daughter of Mr. and Mrs. Henry (Hank) Lapointe of Squamish and the groom is the son of Mr. and Mrs. Murray Morrison of Burnaby.

Given in marriage by her father, the bride chose a cream coloured silk birdal gown. It featured an empire waist, high neckline, full sleeves with wide cuffs, and was embroidered with daisies and lace. The bride veil, edged with lace and embroidered with roses and pearls fell from a Juliet cap.

Donna carried her great-grandmother's bible and it was covered with a cascading bouquet of burgundy roses and cream button chrysanthemums trimmed with baby's breath and cream ribbon.

Kathy Lapointe, the bride's sister as maid of honour wore a full length gown of burgundy and lace.

Bridesmaids Marilyn McKisson, and bride's aunt, Debbie Allan, the bride's cousin, and Kathy Morrison, the groom's sister wore identical dresses of pink and lace. The maid of honour and bridesmaids carried nosegay bouquets of roses, button chrysanthemums and baby's breath. Each attendant's hair was adorned with baby's breath.

Robert Popp was the best man and Kurt Froehlich, Doug Unruh

and Gary Lapointe shared the ushering duties. Each man wore a grey tuxedo identical to that of the groom.

The bride's mother, Mrs. Lapointe chose a full length gown of olive green crepe and a matching corsage of button chrysanthemums, baby's breath and green ribbon.

For her son's wedding, Mrs. Morrison wore a full length, pale yellow, chiffon gown with matching button chrysanthemum corsage with baby's breath and yellow ribbon.

At a reception held in the legion hall following the service John Johnson acted as master of ceremonies. The toast to the bride was given by Mrs. Corinne Lonsdale and toast to the bridesmaids was given by best man Robert Popp. Robert and John also shared in a short "toast" of the groom.

The reception was kept lively with music by Ken Bayers of Upper Squamish. The delicious buffet dinner was prepared by Donna's aunt Evelyn Lapointe and Ruth Watson. The wedding cake was baked and decorated by Wendy Magee.

Donna was thrilled to have her grandmother, Mrs. Mary Millar from Montreal attend her wedding. Other out-of-town guests came from Montreal, Harrison Hot Springs, Chilliwack, Aldergrove, Burnaby, Tsawwassen and Pemberton.

The new Mr. and Mrs. Morrison are residing in Three Rivers Mobile Court in Squamish.

Henry named to airports board

Mayor Shirley Henry of Pemberton was named to the Airports Division of the British Columbia Aviation Council at the recent meeting at Harrison Hot Springs. She is one of four regional directors appointed to the board.

Three other municipal representatives among those who attended the annual meeting were chosen to serve as regional directors. They include Ald. Art Sutcliffe of Creston, Mayor Lyall Hanson of Vernon and Steve Quinn of Blue River.

This will ensure that perspective from local airport communities will be integrated in Airports Division and B.C. Aviation Council deliberations.

The board is expected to make recommendations to the B.C. Aviation Council's Airports Division, formed in 1980 to assist B.C. communities in funding, operating and managing their air facilities.

A wide range of topics of vital interest to local government including airport management systems, development plans, airport risk management, airport liability coverage, seminar pro-



Mayor Shirley Henry, named to advisory board.

grams for 1983, public relations, revenue generation, land leasing, etc., were discussed.

Mayor Henry told the Times that her interest in airports arose from the creation of the Pemberton airport.

At present they are working with the forestry on putting in a tanker base for forest protection. The initial attack camp and forestry suppression camp will be moved to a site near the airport to provide more rapid reaction to a call for fire prevention in the area.

Marian Mills new president hospital aux.

At the Squamish Hospital Auxiliary's first fall meeting held on September 16, Marian Mills was elected as president. Her executive will be Teresa Hoogenboom, secretary; Alida Hoogenboom, treasurer and phoning committee, Evelyn McCartney.

Owing to the small turn out at the meeting, there was very little business discussed.

All members and future members are reminded that the next meeting is this Thursday, October 21 at 7:30 p.m. in hospital house.

Gilmour installed as Kiwanis Club president

George Gilmour was installed as president of the Squamish Kiwanis Club at the annual dinner meeting in the Wagon Wheel Restaurant on Tuesday, October 12.

Ranjit Khosla, lieutenant-governor of District 13 Kiwanis, acted as the installing officer. Phil Harness is vice-president; Bob Grout, secretary; Eric Schlieper, treasurer; and Paul Hickman, Grant MacKenzie and Owen Johnston were installed as directors. Fred Leeworthy is the past president.

In his address, Khosla said he was delighted to see a club with young members. He outlined the goals for the coming year, with more service to the community as the theme.

Major emphasis of the program will be on the continuation of the good health program for young people, especially in underprivileged countries and the special Olympics.

"Any underprivileged child is a cause of concern to Kiwanis members," he said, "and we are specially interested in projects in underprivileged countries."

He told the club that while sometimes "small is beautiful" they should set their goals to obtain new members, at least two a year.

District governor Bill Watts said he had travelled throughout the Pacific northwest, attended a training session, was busy attending meetings and events sponsored by Kiwanis such as the special Olympics and health for underprivileged children. He cited the case for children in Bolivia and Gambia.

He gave a frightening statistic for the members to consider. Out of 28 deaths in the world each minute, 21 are children. Primary health care in these countries can help the children.

Following the dinner and installation, slides on Colombia, featuring Cartagena and the flowers of the tropical country, were shown by Rose Tatlow, who also displayed some of the artifacts she had brought back from her trips to the South American country.

Visiting Kiwanians included district governor Bill Watts and his wife, Joan; past lieutenant-governor Harry Weatherly; Paul Stewart of West Vancouver; and Ranjit Khosla, lieutenant governor of District 13 Kiwanis and his wife.



George Gilmour receiving his president's pin from the incoming lieutenant governor Ranjit Khosla from North Vancouver.

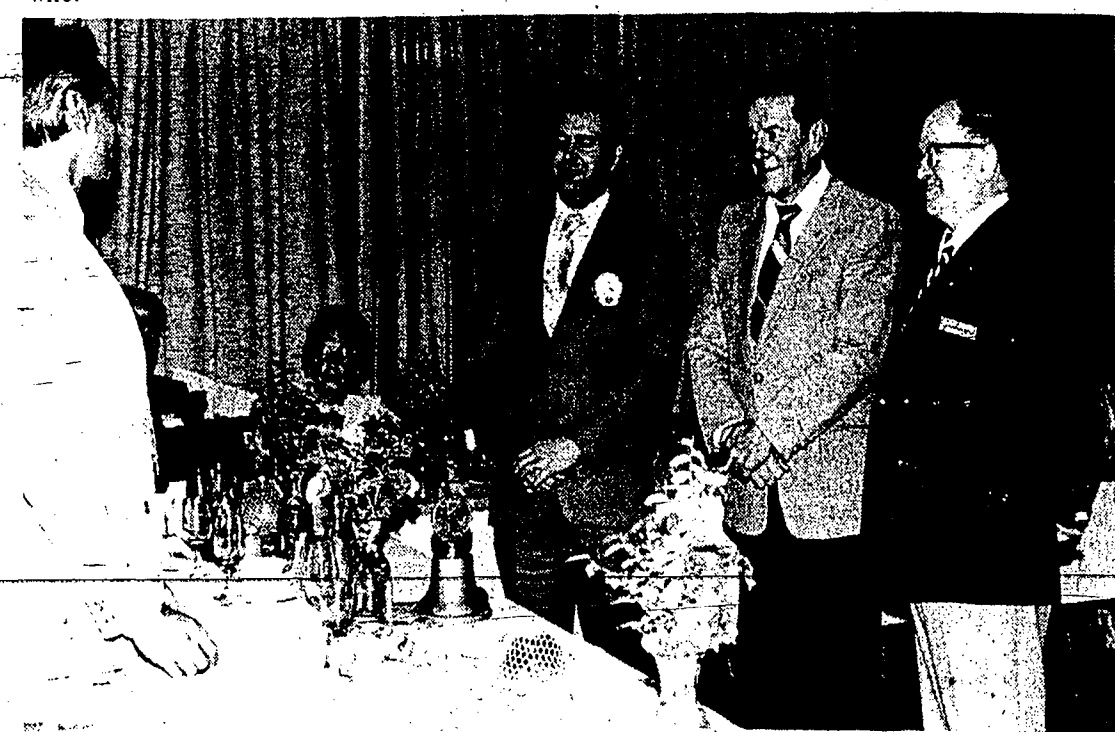


Ranjit Khosla, congratulating Fred Leeworthy on a successful year as the president of the Squamish Kiwanis Club.



Bob Grout, secretary, Kiwanis Club.

Phil Harness, vice-president of the Kiwanis Club.



Kiwanis Club directors installed at last week's annual meeting were l. to r. Paul Hickman, Grant MacKenzie and Owen Johnston.

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The Squamish Daycare Committee had decided to disband at this time, at least until there is an adequate demand in the community.

In September, 11,000 daycare questionnaires were distributed to the local elementary schools. Only 16 were returned. Fourteen families required some sort of daycare. Group daycare is required by 5 children. Out-of-school care is required by 17 children in the following schools: Britannia Beach 1 (child), Stawamus 2, Brackendale 3, Squamish Elementary 2, Mamquam 5 and Garibaldi Highlands 4. It would not be economically feasible to run daycare with so few children.

An earlier survey indicated a greater need for out-of-school care and the local school board was approached. Their initial response was favorable, although they wanted to gather further information.

The recent economic downturn has meant more families have an unemployed parent at home. It has also resulted in more women who are willing to babysit in their homes at a reasonable price. In addition, the current economic crises in education has affected the ability of school boards to allow use of school space by non-school groups.

The North Vancouver School Board recently adopted a fee schedule requiring out-of-school care groups to pay a rental of \$1 per hour for every day they occupy a classroom. If the group uses a school at a time that it is not normally staffed by a janitor, there will be additional custodial

fees. With a minimum enrollment of 20 children, this could result in an additional charge of up to \$10 per month per child, to be paid by the family.

The conclusion of the Daycare Committee is that daycare is not a viable issue at this time in Squamish.

Interview

Two women filmmakers, making a film about themselves, compress their personalities into one day in their lives, partly real, partly fantasy. The women are seen as filmmakers, friends, as individuals whose characteristics are contrasted by the use of color, focus and editing the voices.

The film opens with each of the filmmakers, Veronika and Caroline, at home. Each does a visual portrait of the other, based on characteristic gestures and impressions. Veronika sees Caroline like a "cloud in skirts". Caroline sees Veronika like a circus animal who entertains people.

Different techniques and materials, live action, animation, still photographs, slides, and drawings, all contribute to the rich and varied texture of the film. "INTERVIEW" is a documentary portrait using non-documentary techniques. It is shaped by the hands and heads of two very different people.

The film "INTERVIEW" and the film "JUST FOR ME" will be shown Wednesday, November 3rd, at 7 p.m. at the Elks Hall on 2nd Avenue. For further info call the Howe Sound Women's Centre at 892-5748.



SCOUTS, CUBS & BEAVERS
ramblings
FROM EAST HOWE SOUND

The crisp autumn air, the crunch, colorful leaves, and warm sunny afternoons find our young Scouters from little Beavers to seasoned Scouts out on the trails of our beautiful Squamish valley these days. From Pemberton to Squamish 'rambles' are the order of the day and in keeping with their 'motto' the Scouts were out last week-end and staking our suitable sites for winter camps and building some shelters against the winter snows that surely will arrive in due course. Certainly we are all enjoying this lovely 'Indian Summer' though which serves to make the winter just a little shorter.

The Easter Seal Camp will be the site of a training programme for leaders from all sections of the East Howe Sound District this coming weekend. The Wood-badger Training Course is a very important part of the Scouting programme. The kind of Scouting a boy receives depends upon the leader he has and that leader's enthusiasm, energy, and personal

example are the greatest single force affecting all of Scouting. As the leader succeeds, so our whole movement succeeds. To quote from the Troop Leaders Handbook, "... leadership is a great responsibility not to be lightly undertaken. You have the opportunity to influence, for better or worse, the lives of hundreds of boys, who as adults will influence the next generation.

"It will cost you time and patience but in return you will gain countless friends, and spirit of eternal youth, the satisfaction of knowing you have helped many lads to a fuller life and the knowledge that you have played a part in developing the future of Canada and the peace of the world."

"... No man goeth about a more godly purpose that he who is mindful of the right upbringing not only of his own, but of other men's children." Socrates.

A special word of thanks to all of our adult leaders who are giving of their time this year to our

boys — our future generation.

This coming Saturday, October 23rd, Scout House will be at the Civic Centre, Squamish, in the Senior Lounge from 11:00 a.m. to 4:00 p.m. Scout House is the Scouters resource centre and each year they bring their complete inventory from Vancouver for the convenience of East Howe Sound Scouters, indeed for all outdoor enthusiasts in our area. Uniforms, accessories, camping equipment, tents and outdoor clothing will be on display and available at reasonable rates. A good time to pick up Christmas items for that young Scouter in your family. Do drop in and look around.

Thanks again to Gary Wong and his assistants for once again coordinating another successful 'Bottle Drive'. Many thanks to helpful parents and to the boys who worked so diligently and of course to all our friends and supporters of Scouting in the East Howe Sound District who so kindly contributed to the drive. Thank you one and all.



Junior Forest Wardens from club 104 Squamish at the Oyamah campout. Club leader Andy Savory is third from left in the back row.

NOW SHOWING
Thu-Fri-Sat-Sun Oct 21-22-23-24
STARLITE THEATRE
NOTE NEW HOURS—
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\$5 at the door \$4 Pre-reg.
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AGENDA
JOHN DILLABOUGH
Administrator Squamish Hospital
SHEILA ZOLTAY R.N.
Diabetes Centre, Squamish Hospital
ELIZABETH LANGE
Dietician, Squamish Hospital
DR. RICHARD CUDMORE
Medical Director of Hospital
Stress in Today's World
IRENE BYRES
Lions Gate Hospital
B.C. Division C.D.A.
Nutrition Consultant
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DON ACHISON
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TIMOTHY YATCAK
Doctor of Podiatric Medicine
Squamish Hospital Consultant
DR. JOHN HUNT
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Question and answer periods throughout
EXHIBITORS TABLES WILL BE OPEN FOR CONSULTATION
For further information contact
Bob/Ethel Robson 898-5960

arts council news

On October 14, 1982 a regular meeting of the Squamish Art Council was held.

Members are all looking forward to seeing the public come to the upcoming Craft Market November 6, 1982. There will be local talents and some artists from out of town. Support your local

artists and shop the Craft Market. Held at Squamish Elementary from 10 a.m.-5 p.m.

A silk screen workshop will also be held by the Arts Council on Nov. 20, 1982 instructed by Gail Featherstone. For further information contact Lundy Candy at the School Board.

HAROLD CLARK GRADUATES OF SIMON FRASER UNIV.

Harold Vincent John Clark, son of Mr. and Mrs. Albert Clark of Squamish received his Bachelor of Arts degree with a major in business administration and a minor in criminology from Simon Fraser University.

Graduation exercises were held at the university on Saturday, June 12.

Clark graduated from Howe Sound Secondary School in 1977. For the past three summers he has been the aquatic director at the Squamish Pool.



Harold Clark received his Bachelor of Arts Degree from Simon Fraser University in June.

Mrs. Elliott feted at birthday party

On the occasion of her 96th birthday, Mrs. Jeannie Elliott, a resident of the Squamish Manor was the guest of honour at a birthday tea held in the lounge on October 8th.

Over 50 friends from the manor plus family members attended. They included Mrs. Elliott's daughter Anne Bradbrook from Winnipeg, her daughter and son in law, Dorothy and Archie McLaughlin of Clinton and son and daughter in law, Jim and Vickie Elliott of Squamish. The ladies of the manor

decorated the lounge in a beautiful fall theme. Pianist Mrs. Mabel Gunn played "Happy Birthday" while everyone joined in singing to a happy Mrs. Elliott. Mrs. Janet Duxbury made sure everyone signed the birthday card.

A large birthday cake was shared by all. On Saturday a birthday dinner was held at the home of Jim and Vickie Elliott. Completing the family circle was the arrival of Mrs. Elliott's son and daughter in law Sid and Ruby Elliott and Allan Elliott from Vancouver.

Peg Tinney heads H.S. Drama Club

Howe Sound Drama Club held election of officers on October 4th. The new slate is president Peg Tinney; vice president Sharon Perron; secretary Marion Mills; and treasurer Evelyn Dawson.

Projects for the coming season were discussed.

The club accepted an invitation to entertain at the Anglican Church International Supper on Saturday, October 23.

On November 11 they will again be singing at the Legion for Remembrance Day.

A new concept for the Drama Club will be the dinner/theatre to be held Friday, November 19 and Saturday, November 20 in the Anglican Church. Following a smorgasbord dinner, director Peg Tinney will present a one act

melodrama entitled "Wedded But No Wife or He Done Her Wrong". This should be a very entertaining evening for students and adults. There will be an advance sale of tickets at \$7 adults and \$5 seniors and students.

A standing invitation to perform for the senior citizens Christmas dinner was also accepted.

Unfortunately they had to decline a request from the Kiwanis Club.

There are also plans for a three act play in the spring possibly directed by Brackendale Secondary School principal Graham Dickson.

There will be no more meetings till the new year.

Junior Forest Wardens camp

The generosity and support of Squamish residents and merchants made the summer for the Junior Forest Wardens this year.

The money from tree sales, the Junior Forest Warden social and many direct donations were spent on summer fun. It enabled 17 JFWs from the Squamish club to go on to the Oyama campout.

Oyama, near Vernon, was the site for the Junior Forest Warden interprovincial campout which is held every two years. Over 600 wardens and parents attended.

The campout covered many interesting subjects such as survival, boating safety, swimming, horseback riding, astronomy, woodcarving and mountain climbing.

JFWs found the six-day campout to be a rewarding and worthwhile experience.

Pemberton Museum

Pemberton has just formed a museum and archives society to collect and preserve the history and records of the life in the Pemberton Valley.

Marjorie Gimse is president with John Cosulich vice-president, Mike Dennison treasurer, and Margaret Fougberg secretary.

The society is planning to use the old Shantz house for the museum and archives and may have it moved down to the village to a central site.



Love those Puckers!

Elsie Hunter of the Merle Norman Studio and Fred Nelson of Touch of Class are pictured here with a sampling of the participating puckers from their contest.

WARNING

A cozy fireplace can be dangerous.

Protect your family from carbon monoxide poisoning!

Carbon monoxide poisoning is a very real hazard in many homes throughout British Columbia. This odourless, invisible killer is produced when combustion takes place without a proper supply of air. With the recent drive to conserve heat and energy, many homes have been made much more airtight, and with the combination of a burning fireplace, a gas-burning furnace and the normal complement of appliances and exhaust fans in operation, a potentially lethal situation can occur. Although gas furnaces

normally have their own air supply, it is often not sufficient to provide the additional air demands of fireplaces and exhaust fans. A fireplace should have its own air supply duct, or a window should be opened in the room where a fireplace is being used. Don't take chances — learn about the hazards of carbon monoxide. Have a qualified heating expert check your home for its air supply need.

If further information is required, contact your local Gas Safety inspector.



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7 SEAS RESTAURANT

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Annual School Public Meetings

Blackwater Creek Attendance Area

Tuesday, October 26, 1982 at 2:30 p.m. in the Blackwater Creek Elementary School.

Electoral Area "C"

Pemberton Meadows & Mt. Currie
Tuesday, October 26, 1982 at 7:30 p.m. in the Pemberton Secondary School.

Electoral Area "D"

includes Garibaldi Station, Britannia Beach and Upper Squamish Valley
Wednesday, November 3, 1982 at 7:30 p.m. in the Britannia Beach Elementary School.

The Annual School Board report will be presented at each of the above meetings. The electors of School District #48 (Howe Sound) are invited to attend the meetings in their attendance area, to take part in the election of their representatives and to discuss the Annual School Board report.

F. D. Ross
Secretary-Treasurer

Wrap up Christmas early...

Overseas and out of province Christmas orders should be mailed out NOW along with your own card and message

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1 For Sale Miscellaneous

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GARAGE SALE
1105 Judd Road
Saturday, October 23
10:30 a.m. to 6 p.m. No early birds. (10.19)

8 Legals

**NOTICE
INVITING APPLICATIONS
FOR TIMBER SALE
LICENCE A18417**

Pursuant to section 16(1) of the Forest Act, sealed tenders will be received by the Regional Manager, Vancouver, up to 1:30 p.m. on November 8, 1982, for a Timber Sale Licence to authorize the harvesting of 8,850 cubic metres of Fir, Cedar, Hemlock, White Pine & Other Species, located Green River, East of Soa River, Lillooet Land District.

Term: 1 year

Bids can be accepted only from those who are registered as small business enterprises, as defined in the Regulations.

Details of the proposed Timber Sale Licence may be obtained from the Regional Manager, B.C. Forest Service, 4595 Canada Way, Burnaby, B.C., V5G 4L9, or the District Manager, B.C. Forest Service, P.O. Box 1970, Squamish, B.C., V0N 3G0.

1 For Sale Miscellaneous

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GARAGE SALE
Sunday, October 24th at 41496 Brennan Road. 11 a.m. to 4 p.m. (10.19)

BASEMENT SALE
Saturday, Oct. 23, 10 a.m.
Sunday, 1 to 4 p.m.
2585 Pentland
Garibaldi Highlands
Children's clothes, girls 0-6x, boys 1-3. Many quality items. Buggy, multiple family misc. items. 898-3206 (10.19)

10 Personals

Alcoholics Anonymous
892-9993 892-5124
898-5278 892-9971
892-9044 & 37978 3rd Avenue
894-6807 Pemberton

Al-Anon Meetings Wednesdays
at Alano Club, 37878 3rd Ave. Ph: 892-3661. New meeting Tuesday, 1 p.m., babysitting available 898-9738 (1.26M)

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WOMEN'S CENTRE**
38036 Cleveland Avenue
10 a.m. to 3 p.m. weekdays, 892-5748.
Women in crisis — after hours, 892-5723, 898-3978, 892-5824 (6.29M)
Gentleman wishes to meet lonely lady, age 26 to 35. Object friendship and romance. Only sincere need, reply. Please send replies to Box D, Squamish Times, Box 220, Squamish, B.C. (10.19)

14 In Memoriam

CASEY — In loving memory of Glen, who passed away October 17, 1978. To hear his voice, to see his smile. To sit and talk with him awhile. To be together in the same old way. Would be our dearest wish today. Dear Lord, forgive a silent tear. A constant wish that he were here. Others are taken, yes we know. But he was ours. And we loved him so. Ever remembered by Dad, Mother and family

14 In Memoriam

CASEY, Glen — In loving memory of a wonderful husband and father who left us on October 17, 1978. Oh how we miss you. Oh how we do, Sleeping makes it all a dream. But no dream could bring back you. Oh how we love you. Oh how we do, And here in this world you left. There's a life that lives for you. Always on our minds Llewella, Sue, Deb, Ken & Rob

15 Funeral Directors

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53 Trucks

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One bedroom suite. \$350 monthly. Includes heat, cable, stove, fridge, fireplace and carport. Available November 1st. Call 898-3415 or 898-5536 after 6 p.m. (10.19)

60 Suites, Condominiums & Townhouses for Rent

Two bedroom basement suite. Stove, fridge and drapes. \$250 monthly. Valleycliff area. Available now. 38252 Westway. 898-3752 (10.26)

Three bedroom duplex for rent in Brackendale. \$400 per month. 892-3493 (10.19)

Two-story triplex. Includes washer, dryer, fridge, stove, drapes. Located at 40327 Diamond Head Road. Also duplex for rent at 2327 Mamquam Road. 898-3416 (TFN)

Two bedroom, full basement duplex in Eagle Run. \$385 monthly. After 4:15 p.m. 898-3043 (10.19)

Mountain view from attractive cedar SxS 3 bedroom duplex. Centrally located in Garibaldi Highlands. Drapes, carpets, new fridge and stove, patio, easy maintenance, fenced garden, sunny exposure. Available immediately. \$375 per month. 922-6836 (10.19)

Two bedroom upper level duplex, walk to schools and town. Dentville area. 38805 Britannia area. \$375 per month. 892-3718 or 892-5359 or 531-2232 (10.19)

66 Offices for Rent

Offices for Rent
New offices from \$125. 3rd and Victoria. 892-9997 (5.4M)

67 Stores for Rent

Retail store space for rent. Best location on 2nd Ave., Available July 1st. 875 sq. ft. to 1,750 sq. ft. 898-9012 (2.2M)

500 sq. ft. of commercial area for rent. Eagle Run Shopping Centre. \$175 per mo. 898-9651 9 a.m. to 5 p.m. (9.28M)

Nice shop space, ground floor, 3rd and Victoria. Approx. 1,000 sq. ft. \$650. 892-9997 (6.8M)

Retail store for rent. 1,750 square feet. Full burglar system. 892-9882 or 898-5142 (7.6M)

STORE FOR RENT
on Cleveland Ave., Squamish.
(Next to Squamish Photo Shop)
700 sq. ft., fully carpeted
Rent \$450 per month
892-3734 or 892-3736 (9.28M)

72 Room & Board Wanted

Male office worker wants room and board. Room needed from Monday to Thursday only. Call Walter, 898-9287 from 7:30 a.m. to 4:45 p.m., Monday to Thursday (10.19)

Male office worker wants room and board. Monday through Thursday only. Call 892-5879 after 5:30 (10.19)

78 Real Estate

Three bedroom, split level, furnished or unfurnished. Call Linda, 892-3571 (10.26)

Three bedroom, 1/2 basement house on Alder Place, Valleycliff. Available immediately. \$400 per month. 898-3361

Offering 1,520 sq. ft. of luxury, located at 10000 Valley Drive. Sale price \$55,000. Also limited number for rent, low \$400's. Call Eve Carswell, 985-8231. Open house Wednesday, October 20, 11:30 to 1:30; Sunday, October 24, 3 to 5 (10.26)

Three bedroom home, Dentville area. 892-3846 (10.19)

Comfortable 4 bedroom home, complete with all appliances. Situated in quiet acreage in Brackendale. Available October 31st. \$600 per month. Call 932-5469 days or 932-4436 eves. (11.9)

Two bedroom duplex. 1272 Zenith Road. Fridge and stove. Oil heat and hydro separate. \$275 a month. Call Jeanette, 898-9531 (11.9)

64 Duplexes for Rent

Two and three-bedroom duplexes for rent. Four appliances and drapes included. No pets. \$425 per month. Eagle Run area. 898-9651 from 9 a.m. to 5 p.m. (9.28M)

Home for Sale by Owner
Three bedroom, split-back. Fireplace, washer, dryer, stove, fridge, dishwasher. Half basement. Brackendale — high and dry. \$69,900. \$3,400 plus B.C. second mortgage gets you in. 898-5052 (10.26)

Three bedroom, two-year-old house. Asking \$55,000. After 4:30 p.m., 892-9866 (11.2)

80 Houses for Sale

New Homes, 1,280 to 1,373 sq. ft. From \$49,900 to \$54,900. 596-7398 or 892-5106 (7.6M)

1066 Wilson Crescent. Excellent condition three bedroom house, on private lot. For sale by owner. \$52,000. 898-3722 or 898-4216 (8.24M)

Three bedroom, two-year-old house. Asking \$55,000. After 4:30 p.m., 892-9866 (11.2)

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Comfortable 4 bedroom home, complete with all appliances. Situated in quiet acreage in Brackendale. Available October 31st. \$600 per month. Call 932-5469 days or 932-4436 eves. (11.9)

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64 Duplexes for Rent

Two bedroom duplex. Stove, fridge, washer and dryer, oil heat plus wood-burning heater, cable TV. Within walking distance of Squamish. \$320 per month. 898-5786 (10.19)

Three bedroom duplex for rent in Brackendale. \$400 per month. 892-3493 (10.19)

Two-story triplex. Includes washer, dryer, fridge, stove, drapes. Located at 40327 Diamond Head Road. Also duplex for rent at 2327 Mamquam Road. 898-3416 (TFN)

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Three bedroom home, Dentville area. 892-3846 (10.19)

Comfortable 4 bedroom home, complete with all appliances. Situated in quiet acreage in Brackendale. Available October 31st. \$600 per month. Call 932-5469 days or 932-4436 eves. (11.9)

Two bedroom duplex. 1272 Zenith Road. Fridge and stove. Oil heat and hydro separate. \$275 a month. Call Jeanette, 898-9531 (11.9)

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Three bedroom home, Dentville area. 892-3846 (10.19)

Comfortable 4 bedroom home, complete with all appliances. Situated in quiet acreage in Brackendale. Available October 31st. \$600 per month. Call 932-5469 days or 932-4436 eves. (11.9)

Two bedroom duplex. 1272 Zenith Road. Fridge and stove. Oil heat and hydro separate. \$275 a month. Call Jeanette, 898-9531 (11.9)

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Offering 1,520 sq. ft. of luxury, located at 10000 Valley Drive. Sale price \$55,000. Also limited number for rent, low \$400's. Call Eve Carswell, 985-8231. Open house, Wednesday, October 20, 11:30 to 1:30; Sunday, October 24, 3 to 5 (10.26)

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Two bedroom upper level duplex, walk to schools and town. Dentville area. 38805 Britannia area. \$3

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Titans win two straight

By MIKE ECKERSLEY
A couple of weeks ago it appeared as though the Squamish Titans were in for a long, dismal year. In losing their first three games they had not only been outscored 83-8, but also occupied the basement in the Gordon Sturridge League.

Though the season is far from over, it looks as if the Titans are turning things around. Their offense, which once was nonexistent, has suddenly come to life with the discovery of the aerial attack.

In the last two games, against the West Vancouver Patriots and the Lynn Valley Colts, the Squamish offense, led by quarterback Cliff Roberts, has eaten up a combined total of 335 yards, 212 of which has been passes.

The defense, meanwhile, has steadily improved, limiting the opposition to just 134 yards in those same two games.

The result was the Titans' first two victories of the year and they now occupy second place in the league with a 2-3 record.

On October 4 they got their first win of the season with a 25-6 drubbing of the West Vancouver Patriots. Quarterback Cliff Roberts, who was the game's outstanding offensive player, led the attack to a total of 172 yards gained, of which 129 were in the air.

But still, Squamish had to come from behind for the victory as the Patriots capitalized on a fumble recovery on the Titans' 20-yard line to take a 6-0 lead in the first quarter.

It looked at though it was going to be a long day.

However, it took a touchdown that never was, to get the Squamish team really moving.

In the second quarter, with the Titans scrambling near the West Vancouver ten yard line, Barry Wright took a pass from Roberts and was tackled on the goal line. After a few anxious moments the referee signalled a touchdown and all of a sudden it was a tie game.

"I wasn't even in the end-zone," Wright confessed with a smile after the match.

Touchdown or not, it sparked the team as both the offense and the defense, led by Pat Gaudin, defensive star of the contest, got tougher.

In the second half Wright stepped into an errant Patriots' pass and carried the ball for 36 yards before he was brought down on

the West Vancouver seven yard line.

That set up a one-yard major by Roberts. Alex Ross kicked for the two-point convert and Squamish had a 13-6 lead they wouldn't relinquish.

Early in the last quarter, after the Titans' defense had stopped a Patriots' drive on the Squamish ten yard line, Roberts found Wright all alone behind the defense and he ran 80 yards for another touchdown.

Savouring every moment of this lead, the Titans were hungry for even more points and once again it was the defense that supplied it. Wright intercepted yet another pass and rambled 60 yards for his third major of the game, closing out the scoring.

From there on it was up to the defense to hold on in their own end after Squamish tried a short kick that went backwards.

Unfortunately, the contest was marred with two injuries as the Titans' Duncan Kolatschek suffered a broken arm and a Patriots' player, who had a broken collar bone, was taken off the field by ambulance.

Nevertheless the Squamish team, motivated by the victory, went down to Vancouver the next day where they defeated the Lynn Valley Colts 8-0 to avenge a 25-0 loss the Titans suffered at the hands of the Colts earlier this season.

Once again both the offense and defense, led by Pat Gaudin, played well as the attack clicked for 163 yards while the defense limited the opposition to a paltry 32.

Quarterback Roberts, who was given a lot of protection by his linemen, was also allowed plenty of time to pick his receivers.

Most of the time that receiver was Wright who, as the game's outstanding offensive player, was a one-man wrecking crew. He carried the ball over a hundred yards for the second straight match.

It was two big gains by Wright that set up the game's only

touchdown, that being a five yard sweep by Roberts with the convert made by Alex Ross.

From then on penalties began to take their toll. With most of the play inside the Colts' half, infractions against Squamish served as more of a defensive threat than Lynn Valley.

On just one offensive series the Titans had two touchdowns called back due to penalties and they eventually came away empty-handed.

It became nail-biting time as the Colts mounted one of their few offensive thrusts into the Squamish end late in the game. Once more though, the defense came up big as Wright made the interception to preserve the victory.



By LAUREL BLACKMAN

I am sure there are many of you who wish like I do that we could sit down and capture the beautiful fall colours which are splashed on our local mountains these days. For me, fall is a season I always look forward to for many reasons.

This fall has, up to now certainly surpassed any of my expectations, and hopefully more is to come.

Remember though, if the rains eventually do come, a nice welcome is always waiting for you here at the Squamish Civic Centre.

Here at the centre, fall has once again brought the hockey, figure skaters, fitness enthusiasts, recreation skaters and tiny tots, as well as the spectators to the Civic Centre.

Unfortunately, the warm sun goes down pretty early these days and so, for those of you with a vacancy in your bus schedule, hope one of the public skating sessions can fit right into that hole.

soccer scene

| Howe Sound Men's Soccer Standings | | | | | | | | | | |
|-----------------------------------|----|---|---|---|----|----|-----|--|--|--|
| | GP | W | L | T | GF | GA | Pts | | | |
| McBride Trucking | 6 | 5 | 0 | 1 | 32 | 6 | 11 | | | |
| Old Fort Brewers | 6 | 4 | 0 | 2 | 30 | 10 | 10 | | | |
| Khalsa | 6 | 3 | 1 | 2 | 20 | 7 | 8 | | | |
| A&A Battery | 6 | 4 | 2 | 0 | 20 | 19 | 8 | | | |
| Native Sons | 6 | 2 | 3 | 1 | 18 | 20 | 5 | | | |
| Brackendale | 6 | 2 | 4 | 0 | 9 | 20 | 4 | | | |
| Thorcon | 6 | 1 | 5 | 0 | 9 | 28 | 2 | | | |
| Local 170 | 6 | 0 | 6 | 0 | 5 | 33 | 0 | | | |

Games Played Sunday, October 17, 1982
Brackendale (1) vs Old Fort (9)
A&A Battery (5) vs Native Sons (1)
Khalsa (9) vs Local 170 (0)
McBride Trucking (5) vs Thorcon (1)

dateline '82

Wednesday, October 20: Chamber of Commerce luncheon, 12 noon in Loggers Inn. Guest speaker, Gordon Thom, head of post secondary education for B.C. for BCIT.

Thursday, October 21: Squamish Hospital Auxiliary meeting — Hospital House at 7:30 p.m.

Saturday, October 23: Scout House will be in Squamish from 11 a.m. to 4 p.m. with uniforms, camping equipment, etc.

Saturday, October 23: St. Joseph's CWL will hold a Harvest Tea and Bake Sale. Raffle in Parish Hall at 1 p.m.

Saturday, October 23: International supper and talent show at St. John's Anglican Church at 5:30 p.m. For further info call 898-5486.

Saturday, October 23: Flea Market at Highlands Mall, 10 to 2 p.m. Sponsored by First and Second Brackendale Brownies.

Saturday and Sunday, October 23-24: East Howe Sound District Scout Leader Training Course, Part One — all sections at Easter Seal Camp.

Sunday, October 24: Sixth annual Squamish Road Run, starting at 9 a.m. at the Howe Sound Secondary School.

Friday, October 29: OORP 127 Hallowe'en Bake Sale in the Highlands Mall from 11 a.m. Raffle of wall clock, clown bedspread and Salton tray will be drawn.

Friday, October 29: Hallowe'en costume party for 9-13 year olds in Civic Centre mezzanine, 6 to 10 p.m. Sponsored by Junior Forest Wardens. Limited ticket sale.

Saturday, October 30: Sea to Sky Country Diabetes Symposium, 9:30 a.m. to 3:30 p.m., Legion Hall, Squamish. To pre-register call 898-5960 or 898-9559.

Saturday, October 30: St. John's Anglican Church Rummage and Garage Sale, 10:30 a.m.

Saturday, October 30: Bake sale, sponsored by Howe Sound Ringette in Highlands Mall, 11 a.m.

Wednesday, November 3: Howe Sound Women's Centre "Our Nite." Films "Just For Me" and "Interview" will be shown. Elks hall, 7 p.m. Call 892-5748 for information or ride.

Friday, November 5: Bake sale and knitted goods sale sponsored by United Church Women at 1 p.m., Garibaldi Highlands Mall.

Saturday, November 6: Annual Arts Council Craft Market in Squamish Elementary school, 10 a.m. to 5 p.m.

Saturday, November 6: Senior Citizens' Fall Bazaar.

Saturday, November 13: OES Bazaar, 1 to 3 p.m., Masonic hall.

Friday & Saturday, November 19-20: Howe Sound Drama Club dinner/theatre at St. John's Anglican Church. Smorgasbord and one-act play. \$7 adults; \$5 seniors and students.

Saturday, November 20: Legion Ladies, Branch #277 — special Bazaar and Hobby Sale.

Saturday, November 20: Rotary Sportsman's Dinner.

Saturday, November 27: AEW Christmas Bazaar at Civic Centre.

Saturday, December 4: "Glory of Christmas" musical by Squamish Youth Chorale, Myrtle Philip school, Whistler, 7:30 p.m.

Saturday, December 4: St. Joseph's CWL garage sale at parish hall.

Sunday, December 5: Annual Kiwanis Community Christmas Concert — Civic Centre, 2:30 p.m.

Saturday, December 11: Lunch with Mrs. Santa Claus, 12 noon

Saturday and Sunday, December 11-12: Squamish Youth Chorale, "Glory of Christmas", Civic Centre, Saturday 7:30 p.m.; Sunday 3 p.m.



ASH COLLS
Mike Sweeney

Spotlight on Mike Sweeney

By DWAYNE THOMAS

This is part one of a two-part interview with Mike Sweeney, Squamish's first professional soccer player. A three-year veteran midfielder with the Edmonton Drillers of the NASL, he has been one of the few bright spots in an otherwise dismal year for the Drillers.

Although the future of the Drillers seems in jeopardy, Mike seems certain of a continued future in the NASL, as well as on the Canadian National team.

This week I talked with Mike about how he made it pro and his past season.

When asked what led to him becoming a professional soccer player, Mike said it was more luck than anything. After graduating from Howe Sound High School he left for SFU, but not just to play soccer, it was secondary.

"I just went to see if I could play and if I got lucky, a scholarship to pay for my schooling."

But being in the right place at the right time got Mike the break that led to the NASL.

When the Canadian Youth under 19 team came to SFU searching for players Mike was 17. He was one of only two players eligible to play.

Seeing that Mike was not on the first team, the SFU coach let Mike try out for the team. If he made the team SFU would be represented.

Of the 20 trying out for the youth team only 13 would go back to Newfoundland to try for the Canadian team. As luck would have it, the B.C. coach was also the Canadian coach, so he taught the B.C. boys what he expected.

Mike made the team, but as he says "I was close to the bottom, say about twelfth."

He went back east where he made the Canadian team, as did all the players from B.C., thanks to their previous training from the Canadian coach.

The 20-member Canadian squad went to a tournament in Honduras. Mike wasn't a starter, but was the fifth midfielder.

Once again lady luck smiled on Mike. The left fullback got hurt and Mike was the only other left-footer on the team. He had a good game at left fullback and played the rest of the games from there on in.

The rest is history. Mike was drafted North American to the Edmonton Drillers and has played there until this season.

But as for this past year, Mike stated he didn't enjoy himself all season, in particular the first half.

"We had a new coach who put

a lot of pressure on us to win which only made us play worse," he explained.

The coach apparently settled down, Mike enjoyed the second half, and player harder which resulted in the Drillers winning a few near season's end.

But Mike did not blame the poor Edmonton season on Edmonton owner Peter Pocklington.

He pointed out that Pocklington had spent \$10,000,000 in four years on the Edmonton team and had no return. Mike complimented Pocklington on his fortitude for giving soccer a try in Edmonton.

As well, Mike feels his con-

fidence has improved due to his team being on the slide. In his rookie year he did not have the confidence to play the ball himself so he always passed it away.

With the team losing, Mike felt he should try playing the ball which improved his game as well as his confidence. He acknowledges that he might not have developed his game with a winning team.

Mike's first goal was to play for the Canadian National team, which he has. His new goal? To play in the World Cup.

Next week we conclude the interview with Sweeney when he discusses his future.

Chiefs split games

By MIKE ECKERSLEY

Outstanding running on the part of the offense and a good game by the entire defense was the way coaches Rob Ryan, Steve Bank and Derek Hughes described last Sunday's 4-0 victory by the Squamish Chiefs over the West Vancouver Vikings.

And an all round effort it was as the Squamish defense, led by the likes of Brendan Wilson, Murray Thrower, Mike Kelly and Simon Hughes, limited the Vikings to only about five first downs in the entire game.

On offense, quarterback Ron Stewart made use of the talents of Murray Thrower and rookie Mark Richards to break through the opposing defense so that by the half, the Chiefs had scored three touchdowns and went on to collect three more in the final frame.

Richards, in only his second game as a running-back, opened the contest with a 15-yard touchdown play and then Thrower took over as he collected the next two majors, with the second coming off a punt return, to make it 20-0, as Simon Hughes got his first two-point convert in two years.

Thrower then went on to get his third and fourth majors of the game to put the match out of reach.

But the play of the day belonged to Stewart who early in the last quarter found himself trapped behind his line of scrimmage with Vikings all around him. Somehow, though, Stewart broke a tackle just when he seemed to be going down, and found Mark Richards in the clear. Richards made no mistake as he rambled for a 55-yard touchdown.

Coming off this victory, the

Chiefs then took on the Lynn Valley Eskis in Vancouver. Squamish was up against a hot team.

On the first series of the game the Eskis drove the Chiefs' offense back and then jumped on a fumble deep in the Squamish end.

Thus with the ball just inches from their goal line, the Chiefs' defense could not be expected to hold on. But much to their credit it still took a fourth down play before Lynn Valley finally opened the scoring. With the run-in for the one point convert, the Eskis had a 7-0 lead that they would never let go.

In the opening minute of the second quarter Rob Fourchalk, the same Lynn Valley player who scored the first touchdown, turned a 29-yard run into another major and then later pounced on a Chiefs' fumble to set up a Mark Vancoughnett touchdown that made it 19-0 at half time.

Squamish never gave up. They collected an Eskis fumble to mount their own offense. Even a penalty for illegal motion didn't stop them as two big plays by Richards, in which he broke a number of tackles, set up a touchdown by Stewart.

Hughes made the two-point convert and Squamish was finally on the board with the score 19-8.

But a blocked punt on the Squamish 13-yard line late in the third quarter resulted in another Lynn Valley major as they regained their 19 point lead.

The Chiefs refused to die though as they capitalized on a Murray Thrower interception in the dying minutes to make it 25-16 on a quarterback sneak by Stewart, but it was too little, too late.

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the Times

A & A Battery comes from behind to win

Excluding the league in which Squamish United Pharmsave competes in, Howe Sound Men's Soccer League offers perhaps the best brand of play you'll find in these parts.

It offers everything from end-to-end action to come from behind victories. The competition last weekend held plenty of this and more.

One such match pitted Brackendale against a young A&A Battery side. When Brackendale jumped into an early 2-0 lead on a pair of goals by Brian Chapman, it looked as though it was going to be a wash out.

But A&A Battery fooled everyone as they came roaring back to win it 4-3.

Ashok Kular scored first for the Battery's just before the end of the half. That goal seemed to spark - if you'll excuse the pun - A&A as they began to press in the second half in search of the tying score.

It finally came as Glenn Rivett put the ball past Brackendale goalkeeper Geoffrey Furniss to tie it.

After Furniss thwarted a Battery's breakaway, Mark Shollert connected on the next two goals. One came off a penalty kick to

suddenly put A&A Battery up 4-2.

It was then a question of too little, too late, when Brackendale's Chapman got his third goal of the contest to finish the scoring.

Meanwhile, just across the field, Thorcon and Local 170 were battling it out as both sides searched for their first wins of the season.

Thorcon vaulted into an early 3-0 lead on a pair of goals by Lance Mitchell and a single from Don Weiss before Bill Street Jr. finally replied for Local 170.

Ken Bayers put Thorcon three goals up in the second half, but Local 170 came right back on

scores from Don Dorosh and Scott Stroud. That created a few anxious moments for Thorcon who found themselves holding on to preserve the victory.

In other league action, McBride Trucking, led by Tom Bonar's two goal output, defeated the Native Sons 6-2.

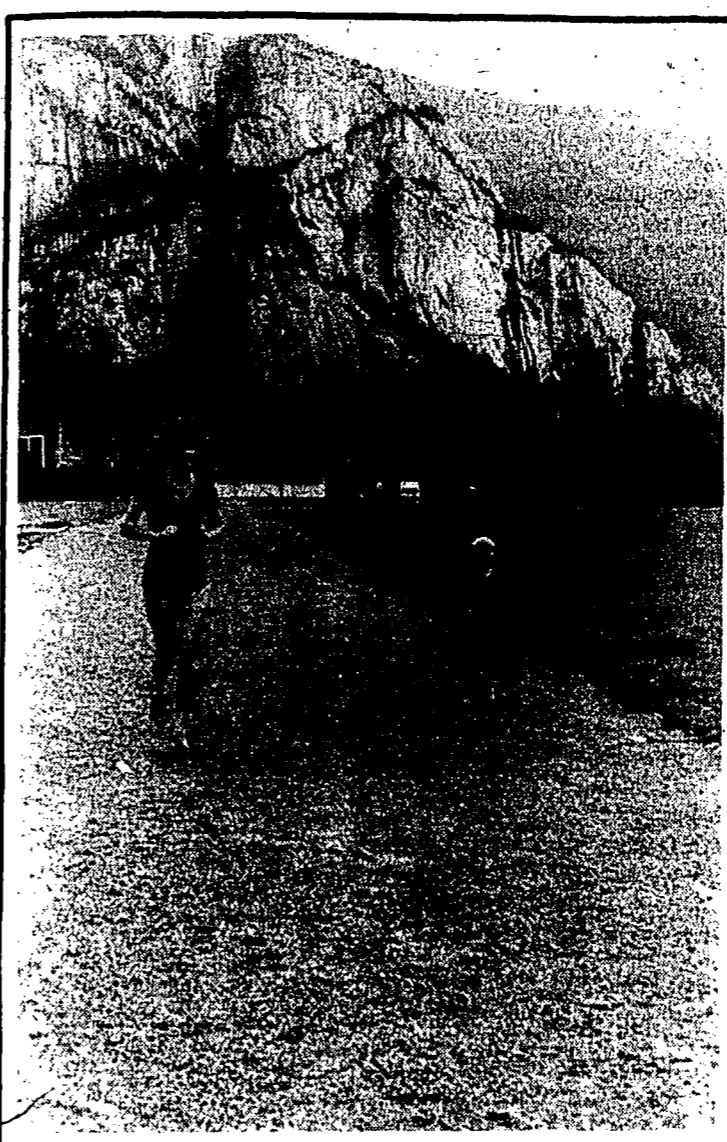
The other scorers for McBride were Keith Fowler, Mike DeCook, Terry James and Tom James, who scored on a strange shot from far out that seemed to weave through traffic in front of the Native Sons' net, before it floated behind the beleaguered goalie.

Travis and Mark George connected for the Native Sons who simply came up against a hot goaltender in Alfie James. He stopped a penalty shot and made several more outstanding saves to pace his team to victory.

The win kept McBride Trucking in first place in the division, one point ahead of the Old Fort Brewers who fought to a 1-1 tie with Khalsa United.

Khalsa's Ed Baychek opened the scoring when he found himself all alone in front of an empty net. After that, the game became a midfield battle and it appeared as though Baychek's goal would stand as the winner.

But midway through the last half, the Brewers' Tom Marshall tied it up to earn his team the one point.



Toni Aabye is going to be a participant once again in our local Road Run. This is the sixth annual Road Run and will be held on the 24th of October at 9 a.m. at the high school grounds.

hockey

HOWE SOUND MEN'S LEAGUE

Howe Sound Men's Hockey Contact League
as of October 13, 1982

| Team | GP | W | L | T | Pts. |
|------------------|----|---|---|---|------|
| A&A Blades | 4 | 3 | 1 | 0 | 6 |
| Triple C Logging | 3 | 2 | 1 | 0 | 4 |
| Raiders | 3 | 1 | 2 | 0 | 2 |
| Super Valu | 2 | 0 | 2 | 0 | 0 |

| Ten Top Scorers | G | A | Pts. | PIM |
|--------------------------|---|---|------|-----|
| Dan Klein (A&A) | 5 | 4 | 9 | 9 |
| Terry James (Triple C) | 4 | 1 | 5 | 0 |
| Eric Swan (A&A) | 3 | 2 | 5 | 12 |
| Neal Olefson (Triple C) | 3 | 2 | 5 | 2 |
| Al Dumas (A&A) | 2 | 3 | 5 | 0 |
| L. Boutiller (Raiders) | 3 | 1 | 4 | 0 |
| Ron Rosser (Triple C) | 2 | 2 | 4 | 0 |
| Ross Teichman (Raiders) | 2 | 2 | 4 | 6 |
| Tom Hansen (Raiders) | 1 | 3 | 4 | 0 |
| Doug Brooks (Super Valu) | 2 | 1 | 3 | 0 |

Scoreboard:
Triple C 6 Super Valu 4
Raiders 5 A&A 2
A&A 5 Triple C 4

Upcoming Games:
October 17: 6:15 — Triple C vs Raiders
October 17: 8:00 — Super Valu vs A&A
October 20: 10:30 — Raiders vs Triple C
October 24: 6:15 — Raiders vs Super Valu
October 24: 8:00 — A&A vs Triple C

C Division Standings
as of October 13

| | W | L | T | GF | GA | Pts | PIM |
|------------------------|---|---|---|----|----|-----|-----|
| Terminal Exporters | 3 | 0 | 0 | 19 | 3 | 6 | 36 |
| Whistler Winterhawks | 2 | 1 | 0 | 8 | 5 | 4 | 39 |
| John Hunter's Trucking | 1 | 1 | 0 | 6 | 15 | 2 | 27 |
| Vince's Pizzeria | 1 | 2 | 0 | 6 | 13 | 2 | 30 |
| Squamish Hawks | 0 | 3 | 0 | 8 | 11 | 0 | 33 |

| Top Scorers | G | A | Pts | PIM |
|----------------|---|---|-----|-----|
| Keith Downer | 5 | 2 | 7 | — |
| Ray Wilburn | 4 | 2 | 6 | 12 |
| Dan Brandreth | 4 | 2 | 6 | 6 |
| Kevin Couture | 3 | 3 | 6 | 6 |
| Ed Bachuk | 2 | 4 | 6 | — |
| David Cathers | 4 | 1 | 5 | — |
| Miles McDonald | 1 | 4 | 5 | 9 |
| Tom Johnstone | 1 | 2 | 3 | 3 |
| Gary Kerns | 0 | 3 | 3 | 6 |

Scoreboard:
Whistler Winterhawks 5 Vince's Pizzeria 1
Terminal Exporters 11 John Hunter's Trucking 1
Vince's Pizzeria 5 Squamish Hawks 3
Terminal Exporters 3 Whistler Winterhawks 1

Upcoming Games:
October 20: 8:45 — Terminal Exporters vs Vince's Pizzeria
October 22: 8:45 — Whistler Winterhawks vs Squamish Hawks
October 22: 10:30 — John Hunter's Trucking vs Vince's Pizzeria
October 23: 10:15 — Terminal Exporters vs Whistler Winterhawks

United takes 'strange' game

On October 4 Squamish United Pharmsave took on the Lobban in Vancouver in what playing coach Doug Muir called a "strange game".

Strange it was as both sides played well and had several scoring opportunities. However, despite this, Squamish still came away with a deceiving 5-0 victory as goalkeeper Barry Galley and the United defense led by Imre Sorben came up big. Sorben did

an excellent job at picking up the loose men in midfield.

"It wasn't really a 5-0 game," Muir said, "for they (the Lobban) didn't actually play that bad. Though we held a slight edge in play it was still a pretty even match but they just couldn't finish off their chances."

But United could, and with the use of a new 5-2-3 formation that gave them more power up front, they managed to take a

commanding 3-0 lead by half time on goals by Tom Johnston, who had two, and Glenn Muir.

Squamish then went to their bench, bringing out the youngsters of the team such as Phil Ellis, Ron Rosser and Flavio Vergara. Taking advantage of this opportunity to play, the three responded to the challenge by turning in good games with Rosser and Vergara both finding the net to finish the scoring.

The victory now puts Squamish near the front of the pack in the first division with the added thought that they can always go to their bench when they have to and still come away with an excellent game.

Man charged with assault

Darcy Francis MacNeil has been charged with assault causing bodily harm, possession of a dangerous weapon and with wounding with intent, following an altercation at the Chieftain Hotel on October 8.

It is alleged MacNeil, aged 25, entered the hotel beverage room and, after engaging in an argument with some men at a table, pulled a knife and struck a person. The victim, who has not been identified, suffered injuries to the face and cheek.

MacNeil appeared in court in Squamish last Tuesday and will be appearing again today.



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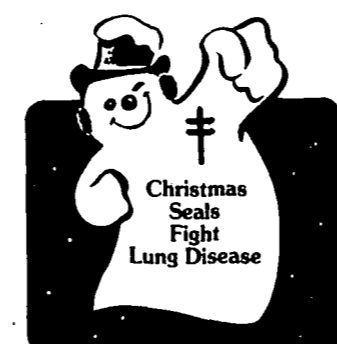
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It is too late to pre-register but not too late to enter the 6th Annual Squamish Run sponsored by

the Squamish Rotary Club.

Registration on Race Day, Sunday, October 24 will be taken from 7:45-8:45 a.m. with the race starting at 9 a.m. The fee will be \$3.00 for elementary and secondary students and \$5.00 for adults. All finishers will receive a T-shirt.

The route, 8000 metres (5 miles) will start at Howe Sound Secondary School track - once around the track - then alongside the Loggers Sports grounds and out across the highway - up Loggers Lane to the old Mamquam Bridge and back to the high school via the old highway (BCR route).

Anyone wishing further information is asked to call Mae Wilson at 898-9360 or Peter Hotston or Shirley DeCook at 892-5261.

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New energy technologies on the B.C. horizon

Here in B.C., most of our energy now comes from oil, natural gas and hydroelectricity. Alternative sources that show the most promise for the near future in B.C. are geothermal, coal, small hydroelectric plants in remote areas and biomass.

Solar and wind energy may also make an important, though smaller, contribution to B.C.'s future energy supply.

Geothermal
The interior of the earth is very hot. Some of that heat creates volcanic activity in various parts of the world. Where that activity has occurred relatively recently, large pockets of hot water, steam, or simply hot rocks sometimes remain close enough to the surface to tap for energy.

One such place in B.C. is Meager Creek near Pemberton. With federal and provincial support, B.C. Hydro has been exploring there since 1974. The methods used are very similar to oil or gas exploration. So far, the results are very promising.

Hydro is now drilling one of several exploratory wells to locate the exact source of heat. If the temperature, pressure and quantity of hot water or steam are sufficient, a 50-megawatt demonstration plant could be built within the decade.

The biggest geothermal energy project in operation today is the Geysers, 160 kilometres north of San Francisco. The field supports several generating units ranging

from 50 to 100 megawatts. The total capacity installed so far is nearly 1,000 megawatts.

Ultimately, the Geysers is expected to produce 2,000 megawatts of electricity, which is about four-fifths the amount produced at B.C.'s Bennett Dam on the Peace River. While the Meager project, if developed, would probably not be as big as the Geysers, it could still make a significant contribution to B.C.'s future energy requirements.

Biomass
Biomass energy is solar energy trapped in plant life and organic derivatives.

It's possible that someday we could cultivate fast-growing forest

species just to fuel thermal electric plants.

Biomass also comes in the form of urban refuse and garbage. In large urban areas, where garbage is available in large amounts, it can be burnt as a fuel for generating electricity. For now, however, the cost in Vancouver for this power would be about five times the present price of hydroelectricity.

Another use of biomass is ordinary wood heating. Although many people now heat with wood, its widespread use is limited by supply and also potential pollution problems.

But wood wastes from the forestry industry already are providing about 20 per cent of B.C.'s total energy supply. Hog fuel

(bark, sawdust and shavings) and "black liquor" (a byproduct of the pulping process) are burnt to make steam. The steam is used for process heat and, in some cases, for producing electricity.

Forest companies increasingly are using these wood wastes to co-generate both process heat and electricity. In the future, the companies may produce more electricity than they need and sell the surplus to B.C. Hydro.

The principal advantage of wood waste is that it's a renewable energy source. One main disadvantage is that its supply is usually not dependable enough for ongoing electrical generation.

Coal
Coal can be burnt to produce

steam to generate electricity. B.C. Hydro has proposed a coal-fired thermal plant at the Hat Creek coal field, which is one of the world's thickest deposits.

New technology has reduced the amount of air emissions from modern thermal plants. But people are still very concerned about the environmental effects both of coal mining and coal-fueled plants.

Coal also can be converted to oil or gas fuels. The cost, however, is fairly high. Until the technology is improved or the cost of conventional fuels is higher in comparison, coal conversion is an unlikely alternative for B.C.

Small hydro
B.C. Hydro currently operates

nine small hydro plants, each providing less than ten megawatts of power. Most of these plants are fairly old and today the economies of scale seem to favour much larger power projects.

This is particularly true for a large utility providing an integrated province-wide power system. It might be more economically feasible, however, for a small local company or individual entrepreneurs to build a small hydro facility in their own area.

The power from a new 2.5-megawatt plant, for example, would cost about five times as much, if built by Hydro, than the power from the 2,700-megawatt Revelstoke project, now under construction.

But many isolated communities rely on expensive diesel-powered plants to provide their electricity. Where suitable river sites exist, it might be practical to build small hydro plants for these remote locations and so cut down on our need for imported oil.

Small hydro facilities can sometimes be built without a dam, so environmental impact is minimal. B.C. Hydro is studying a possible project at Bella Coola that could be built as early as 1985. A number of other sites are also under investigation.

Solar
Nearly all the earth's energy resources are basically solar, except for geothermal, nuclear and tidal.

The sun's energy evaporates the earth's water. When it falls as rain or snow in the mountains, melts and collects behind a dam, we can generate hydroelectricity. Through photosynthesis, the sun also produces all biomass energy (plants) and the fossilized remnants of plants and animal life — coal, gas and oil.

In addition, solar energy can be used directly for water and space heating. In B.C., however, because of our limited sunshine, many solar heating systems are not yet economical alternatives.

Solar energy also can be converted directly into electricity by photovoltaic cells. The efficiency of these cells is being improved to the point where eventually they will be economically feasible, but probably only in areas with sufficient sunshine.

A 200-kilowatt array of photovoltaic cells is being built near Washington, D.C., which gets about one and a half times as much sunshine as the Lower Mainland. B.C. Hydro has a one-kilowatt experimental array on the roof of its research laboratory in Surrey.

Wind
Like solar energy, wind has the disadvantage of being a diffuse source. It would take hundreds of large wind turbines to equal the power production of one large hydroelectric plant. Moreover, the wind comes and goes. So there would still have to be conventional energy sources to back up the windmills.

Nevertheless, in remote areas

with strong winds, it may be feasible to build wind turbines to supplement the energy supply for communities currently dependent on diesel-generated electricity.

The National Research Council, along with B.C. Hydro and the provincial government, conducted a one-year test of a 50-kilowatt vertical axis windmill at Christopher Point on Vancouver Island. Investigations are now underway to determine if this type of windmill can be used to replace costly diesel-fueled generators in communities along the northern B.C. coast and in the Queen Charlotte Islands.

Nuclear
By government policy, nuclear energy is not part of the energy scenario in B.C. Whether we will ever use this power source at some future time will depend largely on the opinion of B.C.'s residents, many of whom have voiced strong objections to it. As well, the economics of nuclear energy have become less favourable as regulatory and safety requirements have increased.

Canada's widely-praised Candu fission nuclear reactors are now used to produce about one-third of the electricity in Ontario. New Candu plants are being built in Quebec and New Brunswick, as well as additional ones in Ontario.

In fission reaction, energy is released when heavy elements, such as uranium, are split apart. In fusion reaction, which is not yet commercially feasible, energy is released when light elements, such as hydrogen, are fused together under extreme temperatures. Fusion is what occurs in the sun and other stars.

Considerable research is now going on worldwide to develop practical fusion reactors. Fusion would do away with the danger of reactor meltdown, which threatened Three-Mile Island. The problem of nuclear waste disposal also is reduced in a fusion system.

A number of other energy technologies may someday be feasible in B.C. But for now they're either too expensive or in too early a stage of development. These include using ocean tides, currents and waves; converting water to hydrogen gas; and converting fuels directly into electricity with fuel cells.

Heat pumps: a fairly old technology, could be used to heat and cool some buildings in B.C. Like a refrigerator, a heat pump reverses the natural flow of heat by pumping it from a colder space into a warmer space. For now, heat pumps are expensive, but economical for some industrial processes and, where appropriate, to heat large public swimming pools.

To supply the bulk of our energy needs in the near future, B.C. will probably have to continue relying on conventional sources.

But who can say what the future will bring? We can begin to use many alternative technologies now. And others will undoubtedly prove practical in the future.

the Times today — HOWE SOUND'S NEWSPAPER

Energy Supplement to the Squamish Times
Tuesday, October 19, 1982



Solar energy beginning to shine on B.C. homes

Although solar energy is not yet the answer to all our energy needs, there are many ways it can be used to help heat homes — even in British Columbia.

To be practical, however, a solar-heated home must be particularly energy efficient so that relatively little heat is required to keep it warm.

Building a house like this, to be almost completely solar heated, is now possible in B.C. But it would still be necessary to have electricity to run household appliances, and to have a small back-up heat source.

The house would also have to be well insulated, have double or triple-glazed windows, and have most windows on the south side of the house. In addition, the house would have to be built with a complete air/vapour barrier.

Completely solar-heated homes are still mostly something for the future, but any house can be modified today to use solar energy. In fact, you are already using solar energy now.

The sunlight that shines through windows provides solar space heating to every house in B.C. This is called "passive" solar heating — now regarded as the single most economical way of using solar energy.

The more south-facing windows a house has, the more heat it can collect from the sun's rays. East and west-facing windows also act as solar collectors, but those that face north, northwest, or northeast do not.

So the easiest and most economical way to use passive solar energy is to design houses — before they are built — so that most of the glass areas face south.

These glass areas should be double glazed; and triple glazed in colder parts of the province. South-facing windows can be shaded from excessive summer heat by an overhang, a trellis with vines, or deciduous trees.

A properly designed house like this normally costs little more to

build than a conventional one.

But to take full advantage of passive solar energy for space heating, a house needs more mass than a conventional home. This is to absorb and store excess heat for times when there is no sunlight, such as at night. This also helps to reduce the wide fluctuations in household temperature, which can range from 18°C to 35°C throughout the day.

These thermal masses can be in the form of heavy concrete or masonry floors and walls, or drums of water. They should be placed so they get direct sunlight, especially in winter.

Designing these masses as partitions or walls may be preferable to incorporating them as floors, since a bare floor can be uncomfortable.

Solar energy is also being used effectively in B.C. to provide households with hot water. In an "active" system, solar collectors on the roof heat the water and a circulation pump sends it to a storage tank in the basement.

These systems can furnish anywhere from 30 to 70 percent of a home's hot water. And they can even operate effectively during those winters when there is less than an average amount of sunlight.

Swimming pool heating is another very effective use of solar energy in B.C., since we get about 80 percent or more of our sun during the swimming season.

Un glazed solar collectors can be used to keep the pool water in the comfortable range of 23°C to 28°C. The filter pump works as the pumping system, and the water in the pool stores the heat. To preserve heat, pools should be covered when not in use.

If you're planning to build a new home, and want to incorporate as much practical use of solar energy as possible, you should plan to do the following:

• Make walls and ceiling spaces large enough to hold maximum amounts of insulation.

• Install a tight air/vapour barrier.

• Install double or triple-glazed windows, mostly facing south, with shading for summer.

• Build an effective thermal mass as part of your house, and make use of heat storage elements throughout the south part of the house.

• Install collectors and storage tanks for solar-heated water, or install piping for a future solar system.

Altogether, these solar energy innovations and adaptations built into a new house would probably add from five to ten thousand dollars to building costs.

At current conventional energy costs, the payback period for these solar adaptations is fairly long. But families living in energy efficient, solar-heated homes will be much less affected by future increases in energy costs.

They'll also feel secure and comfortable, and may find later that the initial investment in solar heating will greatly enhance their home's resale value.

As for electricity, whether or not we will ever be able to use sunlight to generate abundant affordable power remains for research scientists and electrical engineers to find out. Certainly, a solar-powered world doesn't seem to be just around the corner.

But that dull grey sky over British Columbia offers more solar energy opportunities than we might have thought.

In the past ten years, we've learned a lot about how to use B.C.'s 2,000 or so hours of annual sunshine to more effectively heat our homes, make hot water, and heat swimming pools.

And that's a pretty good beginning.

If you want to get started with solar, there are a number of suppliers in B.C. who'll be glad to give you further information. You can also get considerable solar information from B.C. Hydro's Energy Conservation Division in Vancouver.



Scientist inspects experimental array of photovoltaic solar energy cells on the roof of B.C. Hydro research laboratory in Surrey.

How to ...

Give your home an energy checkup

Your house, like most everyone's, could probably use a good energy checkup to find all the problem areas that are costing you extra money.

Heat loss is the biggest energy waster in homes. The most economical way to minimize heat loss is to have adequate insulation in all the outside walls, ceilings and floors.

Insulation and air leaks. Since warm air rises, one of the most important places to check for insulation is at the top of the house.

Someone agile and with a good sense of balance should climb up into the attic to determine the type, condition and quantity of insulation there. If the insulation is less than about 180 millimetres (six or seven inches) thick, you need more.

The attic also should be checked to make sure there are air vents to circulate outdoor air through the attic space. They should be open and working properly.

Openings that come up into the attic from the ceiling for such things as recessed light fixtures, wiring and plumbing should also be checked. These will have to be sealed with caulking compound or blocked with polyethylene before new insulation is added. This prevents moist air from inside the house from getting into the insulation and reducing its effectiveness.

Insulation must always be kept away from recessed light fixtures. And since heat is bound to escape through these uninsulated "holes," it would be best to replace recessed fixtures with surface units.

The next thing to check after the ceilings is the insulation in the walls. Homes built before 1946 won't have any insulation in the walls — unless it was added after construction — except in northern areas where sawdust or similar material may have been used.

Insulation in an exterior wall can be checked by drilling a small hole from the inside at an inconspicuous place, like under a sink. Then a thin wire or straightened coat hanger can be used to poke around inside the wall.

You can also test for wall insulation by removing an electrical outlet or switch cover and poking around behind it, but you must turn off the electrical circuits before doing this.

Continued on page 14

Economic slowdown throws new twist in energy outlook

You hear a lot about the recession and inflation these days. But what ever happened to the energy crisis?

It's nearly ten years since the 1973 Arab oil embargo set off the so-called energy crisis. Have all our energy problems now suddenly disappeared?

Actually, if you've looked beyond the main headlines, you've probably noticed a number of news items about energy during the last six months or so, like:

• People are driving less in B.C. and gasoline consumption is down.

• B.C. Hydro has postponed a number of large proposed power projects.

• A large liquefied natural gas plant is to be built in Prince

Rupert.

• Severe instability continues in the Middle East.

These and other stories say a lot about B.C.'s current energy situation.

Take our lower gasoline consumption, for example. It's part of a worldwide reduction in the use of oil and oil products. This drop in oil demand is the result of both increased conservation and the current recession. Oil-producing countries are now scrambling to sell their surplus and at reduced prices.

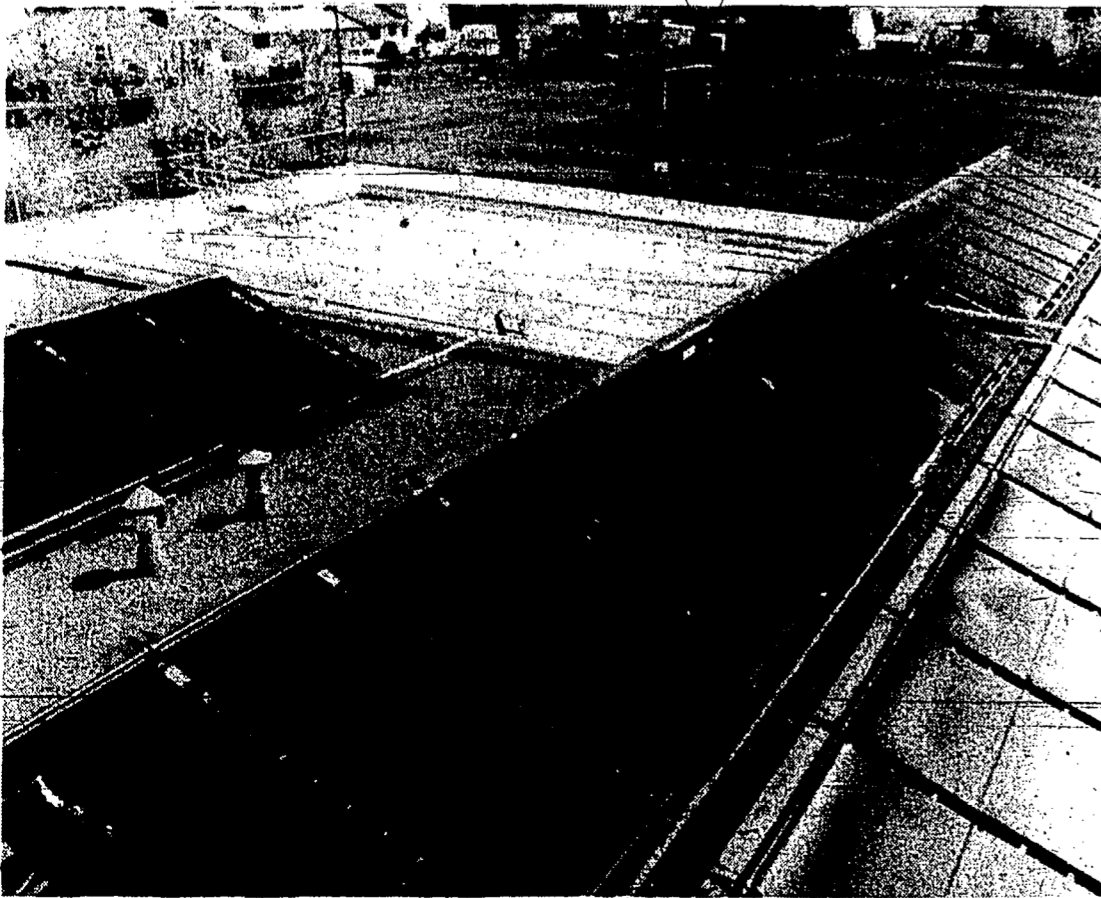
While we can take short-term advantage of this situation, we can't count on lower oil prices to last or imported supplies to remain secure. The continued political instability in the Middle

East shows just how fragile the Western world's oil supply is. Shortages and price increases could return as quickly as they've seemed to disappear.

It was in response to this unstable oil supply that Canadian and B.C. energy policies evolved over the past ten years. The basic policy now is to achieve energy self-sufficiency: to move away from imported oil and rely on other energy resources we ourselves produce in greater abundance, including electricity and natural gas.

The current economic downturn has thrown a bit of a twist into this strategy. It costs money to become self-sufficient. Changing over to other fuels — such as replacing an oil furnace

Continued on page 13



Solar heated pool, showing solar collectors, at the Brocklehurst Recreation Centre in Kamloops.

ENERGY QUIZ

- Does B.C. have a potential site for a major electricity generating plant using geothermal energy? Yes ☐ No ☐ And if so, where? _____
- What percentage of the energy it uses does the B.C. forest industry provide from its own wood waste? 5%; 10%; 20% or more. _____
- The B.C. and federal governments will together give you up to what amount of money to convert your car to run on CNG fuel instead of gasoline? \$300; \$500; \$800. _____
- If Vancouver burned its garbage to generate electricity, how much more would this electricity cost than its present price? Twice as much; three times as much; five times as much. _____
- Name the four principal energy resources B.C. now produces. _____
- About how much less than gasoline does it cost to run a car on CNG or propane? One-quarter; one-third; one-half. _____
- All of the earth's energy resources are a form of solar energy. True ☐ False ☐
- If a converted vehicle runs out of CNG or propane, it can still use gasoline. True ☐ False ☐
- Gasohol is available in B.C. for automobile fuel. True ☐ False ☐
- We don't get enough sun in B.C. to make efficient use of solar energy. True ☐ False ☐
- It's possible to build a house in B.C. that would be almost completely heated by solar energy. True ☐ False ☐
- Adding solar energy innovations and adaptations into the design of a new B.C. house would how much add to the building's construction cost? \$5,000; \$10,000; \$20,000; \$25,000; \$30,000. _____
- Using photovoltaic cells to produce electricity from solar energy will never be a cost-effective alternative to traditional electric generation. True ☐ False ☐
- Wind energy is relatively undependable for electric generation because wind is only intermittent. True ☐ False ☐
- Heat pumps convert electricity into hot air. True ☐ False ☐
- Now that world oil prices have gone down slightly, gasoline consumption is going up again in B.C. True ☐ False ☐
- The oil crisis is over. True ☐ False ☐
- About how much of the oil used in B.C. is imported? 25%; 50%; 75%. _____
- The recession and the drop in U.S. oil prices have cut B.C.'s U.S. market for natural gas exports by how much? One-quarter; one-third; one-half. _____
- B.C. has one of the world's thickest coal deposits. True ☐ False ☐
- At current rates of production, B.C.'s coal reserves would last how many years? 50 years; 100 years; 200 years or more. _____
- B.C. Hydro has a long-term contract to export electricity to Oregon and California. True ☐ False ☐

Answers
See page 13

the Times

Special ENERGY Supplement

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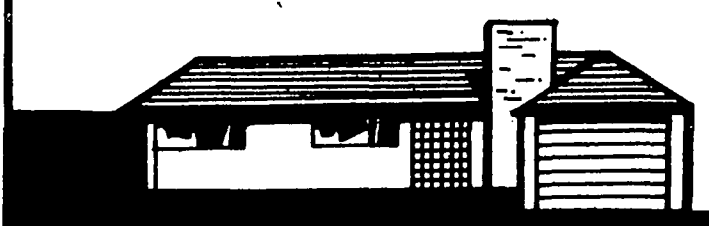
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Strange case of vanishing energy

You may have heard someone say that, scientifically, energy can never be lost or destroyed. And you may have wondered how that can be.

It's obvious, for example, that when the wood in a fire is all burnt up, the wood is completely gone and so pretty soon is the heat it generated.

For all useful purposes, the energy of the burnt wood seems completely lost and destroyed.

And for all useful purposes, that's absolutely true. Scientifically, however, the energy isn't lost or destroyed at all. Here's what happens.

The energy released from burning wood activates air molecules, making them move around faster, which is what makes them feel warmer.

The faster air molecules, however, just keep bumping into slower, cooler ones, transferring

more and more of their energy with each bump. Finally, the energy is spread out to so many air molecules that you can't feel the heat anymore.

The fact that the energy is still there, though spread around, is called the First Law of Thermodynamics. That's the law that says energy can neither be created nor destroyed. The universe has a fixed amount.

The fact that energy naturally tends to spread itself out so that it's less and less able to do the work we want it to do is called the Second Law of Thermodynamics. This law describes a series of one-way doors.

For instance, the Second Law of Thermodynamics explains why you can't take the heat that comes from a burning light bulb and turn it back into the same amount of light.

You also can't gather the energy that escapes as steam from a hot cup of coffee and use it to reheat the coffee. For that, you have to put the coffee back on the stove and use some more concentrated energy, like the burner.

The whole point is that every time we use energy, we lose some

or all of its ability to perform any future work.

Now what does this have to do with conservation?

To begin with, it's a good idea to slow down this inevitable loss of energy as much as possible. Insulating a house, for example, ensures that you will have the use of the heat for as long as possible, before it escapes forever into the outside air. Fixing a leaky hot water faucet is another example of how to slow down the loss of energy.

But energy efficiency goes much further. For example, it makes no sense to heat your water so hot that in order to bathe in it you have to let it cool down. All the extra energy you used initially to overheat the water is wasted.

The most efficient use of energy is to match its quality or intensity to the task at hand. Melting steel, for example, requires intense heat; taking a bath doesn't.

So if you want to use energy wisely, use only as much as you actually need in order to do the heating, lighting and power jobs you need it for. You'll be getting the most out of the Second Law of Thermodynamics. And you'll save some money, too.

Think before you switch to wood

Many Canadian families have been looking to good old-fashioned firewood as a way to heat their homes, reduce energy costs and avoid possible future energy shortages.

But this time-honoured fuel doesn't automatically fill all of today's home heating needs. Homeowners should look carefully at their own particular situation before deciding to switch to wood.

First of all, wood fuel can be just as expensive as oil or electricity unless a reasonably priced source is available.

Cutting with chainsaws and transporting long distances also adds to the energy cost of wood. And wood harvesting can be dangerous, even for the experienced.

But, at its best, wood heating can be reliable and economical.

When forests are well-managed, wood is a renewable resource and proper harvesting can actually improve the quality of a forest or woodland. A one-acre woodland in a coastal area can yield one cord of wood a year.

Firewood can also be found in places that have waste wood, such as logged areas and beaches.

There are also the personal benefits to be gained from gathering your own supply of wood fuel, such as exercise, fresh air and self-reliance.

The actual burning of wood for home heating will cause some air pollution in heavily-populated areas. But the proper installation and maintenance of good quality burners can keep this problem to a minimum.

The potential fire hazards of wood burners can also be minimized through careful installation and maintenance procedures. These are outlined in a number of publications, including "Safe Installation of Solid-Fuel Burning Appliances." (Copies of this are available by writing to the Office of the Fire Commissioner, Suite 1, 2780 East Broadway, Vancouver, B.C., V5M 1Y8.)

Once a homeowner is satisfied that the air pollution and fire hazard concerns can be resolved and has found a reliable and inexpensive source of wood, it's time to think about the actual stove or furnace.

The wood stoves that burn most efficiently are airtight, with con-

trols for adjusting the amount of combustion air and baffles to catch and burn combustion byproducts.

Chimneys of all wood-burning stoves and furnaces must be cleaned at least once a year to avoid the creosote buildup that can cause chimney fires.

Because a wood stove provides radiant heat, it should be placed near the centre of a house where heat will reach as many rooms as possible.

It's a good idea to have wood stoves installed by experienced professionals. Proper clearances have to be maintained and wall and floor protection may be necessary. You may also need to build or install a chimney, which could require a building permit.

Finally, home insurance specifications sometimes change with the addition of wood-burning appliances, so insurance agents should be notified.

You can get more information about wood heating by talking to reliable wood appliance dealers, from homeowners already using wood heaters and from the many books available on the subject.

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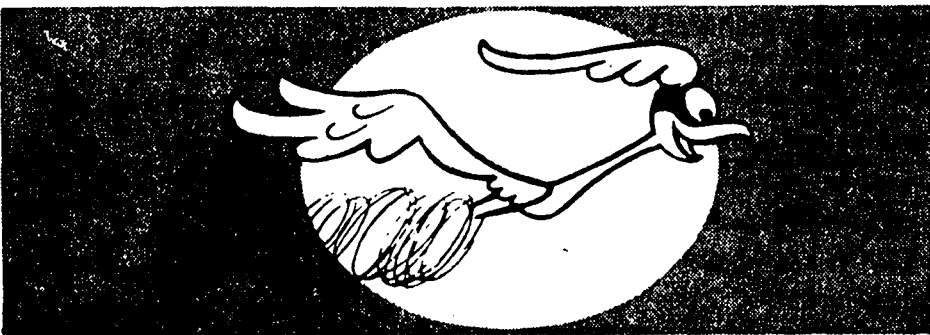
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Labels to energy-saving appliances

The next time you plan to buy a major appliance, you should consider the cost of the energy you'll need to operate that appliance over its expected lifetime. This may be just as important as its initial cost, since many major appliances will last ten to 15 years.

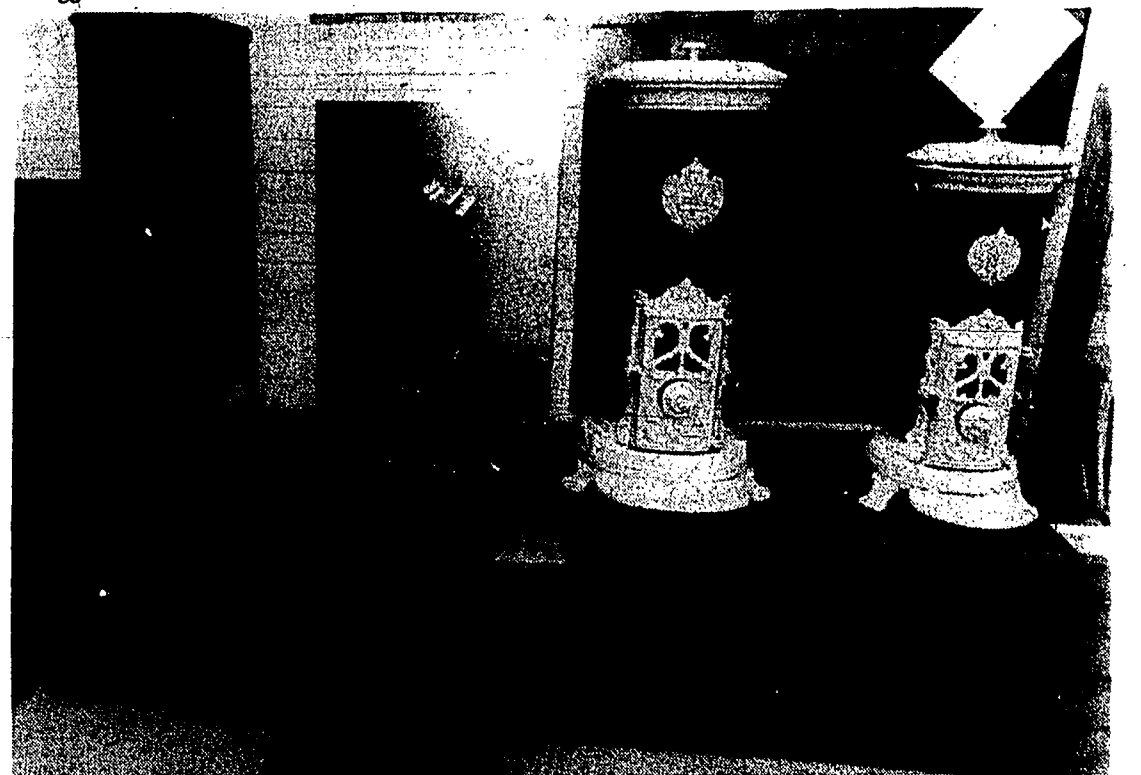
If the difference in energy use between two refrigerators, for instance, is 50 kilowatts per month and the cost of electricity is five cents per kilowatt, the energy cost difference over a ten-year period would be \$300.

To help consumers shop around and compare the energy efficiency of different appliance models, the federal ministry of consumer and corporate affairs has developed the EnerGuide Program. Every

major appliance is now required to display a label stating its typical monthly electrical consumption in kilowatt hours, as measured under CSA test standards.

The EnerGuide label is prominently displayed on the outside front or top of ranges, freezers, dishwashers, clothes washers and dryers; and in a prominent location inside refrigerators.

The federal consumer ministry also publishes a directory each year listing the energy consumption of all appliance models sold in Canada. Copies of the directory are available from all regional and district offices of Consumer and Corporate Affairs Canada. The directory can also be examined at your local B.C. Hydro office.



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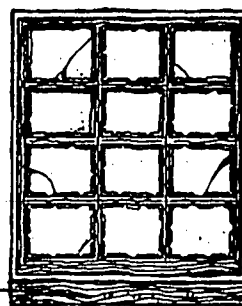


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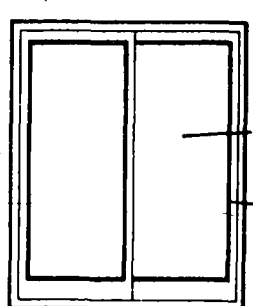
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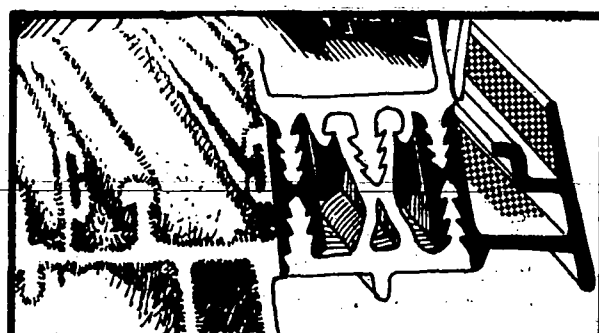
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Economic slowdown throws new twist in B.C. energy outlook

Continued
with a natural gas one — requires an investment.

In the recession, few people can afford to make all the desired changes. So while self-sufficiency remains the long-term goal, in bad economic times we may have to move a little more slowly and retain more of our options.

Fortunately, B.C. has far more energy options than most other places in the world. Although we have to import over 75 per cent of the large oil supply we still use, we do have four other, abundant energy resources: natural gas, coal, hydroelectricity and wood waste. We can also exercise greater energy efficiency and begin to use new energy technologies.

Even though B.C. is well endowed with energy, each of our resources has some questions attached to it, particularly in light of the current economy.

Natural gas

Over the years, B.C. has relied on gas exports to finance the investment necessary for natural gas exploration and development in this province. Until recently, B.C. has produced about twice as much gas as we needed ourselves. The surplus was exported via pipeline to the U.S.

With the recession and the drop in U.S. oil prices, B.C.'s American market for gas has been cut in half. This has put a strain on provincial revenues and hurt private gas producers as well.

This loss in gas sales might be more than made up for by several projects, including the recently announced plan to build a liquefied gas plant near Prince Rupert. The plant would use gas from Alberta and B.C. and the product would be shipped to Japan.

Meanwhile, government policies are also directed at increasing our own consumption of the natural gas we produce. To make it more preferable as a fuel, gas remains priced at about 80 per cent of the cost of oil.

In a related move, the B.C. government decided that a gas pipeline should be built to Vancouver Island. The island is the

only large populated area in B.C. not yet serviced with natural gas. The pipeline will reduce its current dependence on oil. In the coming months, the B.C. Utilities Commission will hold public hearings to select one of several companies applying to build the pipeline.

Coal

Coal has remained a bright spot in B.C.'s economy, while the forest, mining and natural gas industries have all been in a slump. Major new coal contracts recently have been signed with Japan, Korea and several European countries.

At current production rates, B.C. has enough coal to last at least several centuries. But so far, nearly all our production is exported — mostly to Asian countries, where it is used to generate electricity and smelt steel.

We could use coal ourselves to produce electricity, but many people are concerned about air pollution. Coal-burning power plants can be built today under standards that virtually eliminate pollution. But the cost of these pollution controls might make the plants more expensive than other kinds of generating facilities.

B.C. Hydro had proposed building the province's first coal-fired electric plant at Hat Creek, the site of one of the world's thickest coal deposits. The project has been postponed a number of times, however and its future is uncertain.

Hydroelectricity

B.C. is unique in that nearly all its electricity is generated by water power. Unlike thermal generation, hydro power is clean and renewable. But it has its own environmental problems — namely, the flooding of valleys.

Because the best potential hydro sites are mountainous and distant from most towns and cities, long, costly transmission lines are also required.

The current recession has caused B.C. Hydro to postpone several of its proposed hydroelectric projects, including Site C on the Peace River and the Stikine-Lakut and Liard projects in the far north. According to Hydro, the reason for these delays is that the

province's large bulk users of electricity, mostly the forest and mining industries, have slowed down during the recession and are consuming far less power than forecast.

One difficult problem for B.C.'s energy planners is to judge how long the current economic downturn will last. When the economy picks up, so will the demand for energy. But large power projects must be planned at least ten to 15 years in advance to have enough time to approve and build them.

Another problem facing B.C. Hydro and its customers is higher electricity rates. Inflation, rising interest rates and the lower Canadian dollar are all increasing the financing costs of Hydro's large construction debt.

These costs, plus the increasing taxes and fees (such as water use charges) that Hydro pays to governments, must all be passed on to customers in the form of higher prices.

Current restraints may hold some increases back, but the trend is definitely toward more expensive electricity.

Another situation now developing is that with demand lower in the recession, Hydro may find itself with surplus power it can't sell. Normally, the province exports surplus electricity in years when snow and rainfall produce extra water behind B.C. dams.

When the Revelstoke project comes on line, Hydro may have even more surplus electricity. But there may be no market for it if the U.S. economy hasn't picked up, or if there are competing surpluses in the U.S. Pacific Northwest.

Alternative energy resources
Right now, geothermal energy has the greatest potential to become a major new resource for B.C.'s energy supply. During the

next few years, the B.C. Hydro exploration program at Meager Creek, near Pemberton, will determine whether the underground hot water and steam there is adequate for efficient generation of electricity.

Other alternative energy technologies — including solar, wind and biomass — aren't likely to replace our dependence on gas, oil and hydroelectricity in the near future. But they will begin making more significant contributions to our overall energy supply.

As the costs of traditional fuels go up, the costs of these newer technologies may become more acceptable. Mass production may also make some systems, like solar energy cells, cheaper and more competitive.

Energy efficiency

Conserving energy through more efficient use is itself an energy resource. Every bit of energy we save means that that much less needs to be produced in some other way.

Of course, there's a catch here, too. Energy efficiency costs money. Insulating a house, for example, or buying a more efficient water heater requires an investment.

During difficult economic times, many people just don't have the money to improve their energy efficiency, even if they would save in the long run.

It all comes down to a question of how quickly an investment will be paid off by the savings that result. A two-year payback seems clearly worth it. But when you're out of work or worried about losing a job, a five-year payback may seem too long.

Nevertheless, energy prices are going up. So using energy as efficiently and wisely as possible is becoming more and more important all the time.

Government aids conversion

Over 18,000 B.C. home and apartment owners have converted from oil heat with the help of the Canada Oil Substitution Program (COSP) by the end of its first year of operations in June of this year.

Part of the National Energy Program, COSP provides taxable grants of up to \$800 to cover half the cost of converting oil-fired space heating and water heating systems to other fuels.

Apartment buildings are eligible for grants of up to \$5,500, depending on the number of suites in the building.

A number of guidelines apply to the program:

- Building owners in B.C. can't convert to electricity if natural gas is available at the property line and at no cost. They can, however, convert to a heat pump, or a propane gas, wood, or solar-powered system, as well as natural gas.

- A heat pump can also be installed to replace an oil-fired heating system anywhere else in B.C., but on Vancouver Island, the oil furnace must be retained as a backup.

- Each system covered by a grant must displace at least 50 per cent of the oil presently used each year. For this reason, oil systems can't be converted to electricity in areas where the electricity is generated by diesel plants.

Anyone converting a heating system to natural gas should consider converting the water heater as well. Gas-heated water systems provide substantial savings in fuel costs and faster water heating.

Even if you decide not to convert your water heater now, you should have an inexpensive tie left in the gas line. This will save considerable expense later if you ever replace your old water heater with a gas heater.

More information and application forms for COSP grants are available from your local gas or electric utility. For conversion to wood, propane, solar or other renewable energy sources covered under the COSP program, contact the Energy, Mines and Resources office at Marborough Mall, 5021 Kingsway, Burnaby, B.C., V5H 2E5.

Answers to Energy Quiz

1. Yes. B.C. Hydro and the government are currently exploring a promising geothermal site at Meager Creek near Pemberton.

2. 20%. This includes both process heat and electricity. In the future, forest companies may produce more electricity from wood waste than they need for their own operations and sell the surplus to B.C. Hydro.

3. \$800. That's made up by \$600 from the federal government and \$200 from the B.C. government.

4. Five times as much.

5. Natural gas, hydroelectricity, coal and wood waste.

6. One-half.

7. False. Geothermal, tidal and nuclear are not, properly speaking, forms of solar energy. All others are, including hydroelectricity, fossil fuels, wind and biomass.

8. True. Most vehicles using alternative fuels retain their gasoline fuel system, so they can change over from one to the other.

9. False. For now, gasohol is only available in Manitoba and the U.S.

10. False. Our 2,000 or so hours of annual sunshine can be used to effectively heat homes, make hot water and heat swimming pools. Solar water heating systems can, even operate effectively during B.C. winters.

11. True. But the house would have to be built or renovated to be energy efficient enough so that it wouldn't need much heat to keep

it warm.

12. \$5,000 to \$10,000.

13. False. Improving technology and mass production will probably make photovoltaic cells an economic alternative someday. This is harder to predict for B.C. because of our lower amount of sunshine.

14. True. Nevertheless, windmills may be a practical alternative to supplement or replace costly diesel-powered electric generators in remote areas of the province with sufficient winds.

15. False. Heat pumps reverse the natural flow of heat by pumping it from a colder place to a warmer place. A refrigerator works on this principle.

16. False. During the current recession, gasoline consumption has gone down.

17. False. In spite of current oil surpluses in the international market, continued political instability in the Middle East still threatens the Western world's security of oil supply. Besides, oil is a finite resource, quickly being depleted.

18. 75%. Our oil is imported primarily from Alberta.

19. One-half.

20. True. At Hat Creek.

21. 200 years or more.

22. False. Electricity is exported only during those years when there is surplus water behind B.C. dams. The only exceptions are long-term sales commitments to supply the isolated American communities of Hyder, Alaska and Point Roberts, Washington.

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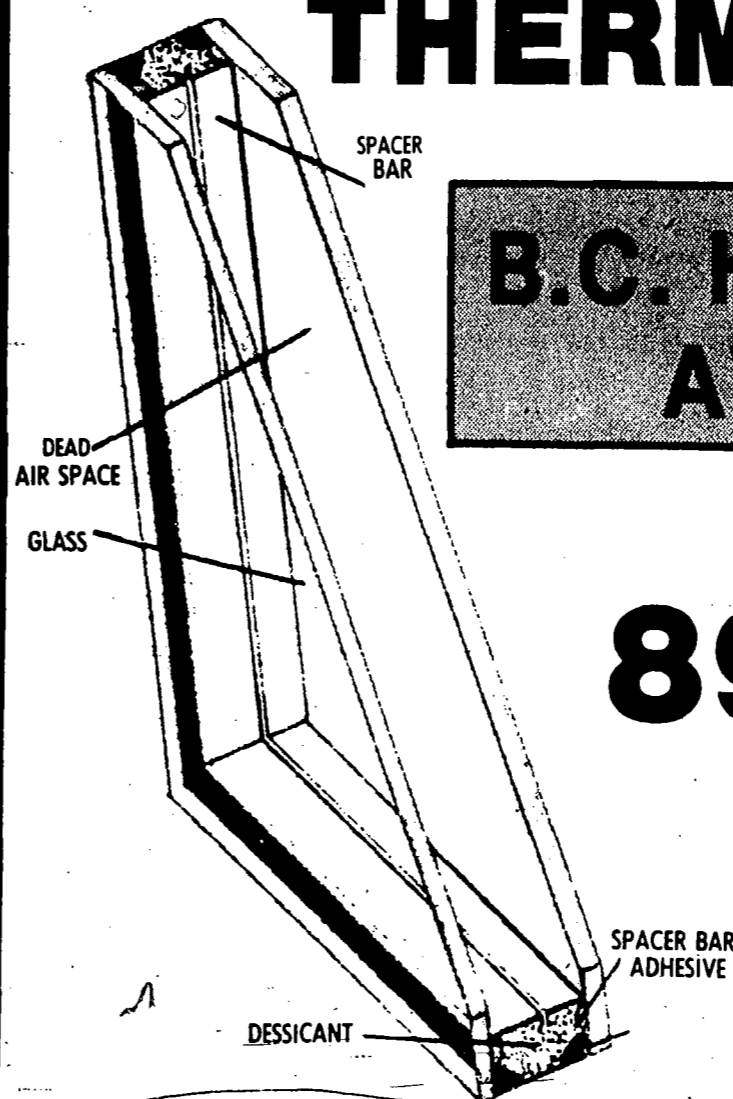
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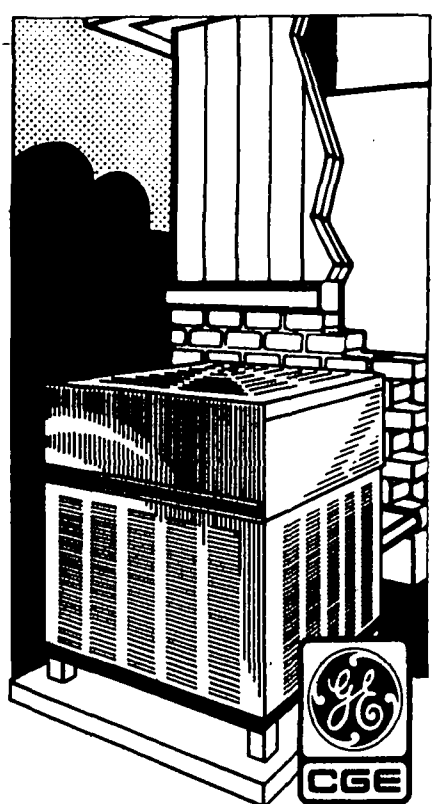
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How to give your home an energy checkup

Continued

If there's no insulation in the walls, cellulose insulation can be blown into the wall cavities.

Any holes or openings from the inside of the walls into the wall cavity should be sealed with caulking compound to stop moist air from inside the house getting into the insulation.

Places to check closely for holes are where walls meet the floor or masonry (like a fireplace), around doors and window frames and where electrical outlets and switches

penetrate the wall. The electrical outlet holes can be sealed with a very inexpensive "rubber" or "paper" gasket. Any gasket or seal should be CSA labelled for fire safety.

Caulking on the outside of a wall should only be done where rain can leak in. Otherwise, the outside surfaces of perimeter walls should "breathe," allowing any moisture that gets inside the wall to get out again. Weep holes in the bottom of brick walls should never be sealed.

If your home has a crawl space, it should be insulated next. The easiest way is to put the insulation up on the underside of the floor above. If the floor is insulated, any piping in the crawl space will require freeze protection and heating ducts must also be insulated.

Building guidelines

Electric utilities across Canada have pooled their resources to sponsor the energy efficient program for building new homes and renovating old ones.

The energy efficient guidelines are useful for homes heated with gas or other fuels, as well as for those relying on electric heat.

Prepared by the Canadian Electrical Association, the program offers a total package of information. In addition to detailed guidelines for insulation, windows and other structural elements, the program covers efficient lighting, appliances, space heating and water heating.

Both the federal ministry of energy and the Consumers' Association of Canada have supported the CEA's Energy Efficient Home Program.

If you are planning to build a new home, you should ask your contractor about the CEA program, or contact your local B.C. Hydro office for pamphlets and booklets on the energy efficient home guidelines. There's also a special booklet for people planning to renovate an existing home.

Alternatively, the walls of the crawl space could be insulated. A sheet of six mil polyethylene should be used to prevent any moisture problems.

Above-ground basement walls should be just as well insulated as main floor walls. The lower concrete portion should also be insulated down to at least 600 mm below the outside ground level.

After the basement insulation is in place, cover it with six mil polyethylene to act as a moisture barrier. If you use a foam insulation for your basement walls, you must cover it with a fire-proof barrier, such as drywall.

Basement walls also should be carefully examined for places where cold air can leak in. A common problem area is where the concrete and frame portions of the wall are joined, though newer homes are generally sealed there. Other areas to check for air leaks are around plumbing and wiring holes.

Cold air leaks can be found with a simple draft indicator made

by attaching a piece of plastic wrap or tissue paper to a coat hanger. Any draft will flutter the hanging material quite noticeably.

The floors of rooms built over carports and garages should have at least 150 mm of insulation (RSI 3.5 or R20). The easiest way to check and insulate this area is from below, by opening up the ceiling in the garage or carport.

Drafty doors and windows also let in cold air and should be sealed. The correct materials should be used for each job. These are readily available from most hardware or building supply stores.

Windows

When all the insulation and weather sealing has been checked, it's time to deal with the windows.

In most houses, more heat is lost through windows than anywhere else. Even double-glazed windows lose about ten times the amount of energy that escapes through an insulated wall. One way to reduce the loss is to add another layer of glass.

Storm windows installed on the inside can provide energy savings at a fairly reasonable cost. But since they are sometimes not as airtight as outside windows, you could have condensation between them. To avoid this, make sure that your inside windows are the tighter fitting ones.

If windows are being removed during renovation, they should be replaced with sealed, double or triple-glazed windows, with a half-inch (13 mm) air space between the layers of glass. It may take some time for energy savings to pay back the cost of the new windows, but the reduced condensation and added comfort are often worth it.

And if windows are completely replaced, serious consideration should be given to reducing the size of heat-losing north-facing windows and enlarging sunny south-facing windows.

Thermostats

Regardless of the other energy-saving steps you take, you should be sure to check the brain of your home's heating system, the thermostat.

The key to using a thermostat efficiently is to set it for the temperature that best suits the activities of the people in the house. For watching television, about 21°C is usually comfortable. For more active things, such as doing

housework, 17°C is often more comfortable.

If the temperature at night is lowered by five to seven degrees celsius, about ten per cent can be saved on heat costs per year. Many people find lower night temperatures more comfortable for sleeping and healthier for many plants. You can also save money by setting the temperature down during the day, whenever your home is vacant.

An automatic thermostat can be installed that will raise and lower temperatures at pre-determined times. This kind of unit costs from about \$50 to \$90.

Hot water

Next to the energy used for home heating and running the family car, the average family's biggest use of energy is for hot water.

In many homes, the hot water thermostat is set around 50 to 60°C. This can often be lowered, while still providing sufficient hot water for normal use.

Energy and money can also be saved by making sure the hot water tank is properly insulated. All the pipes going to the faucets

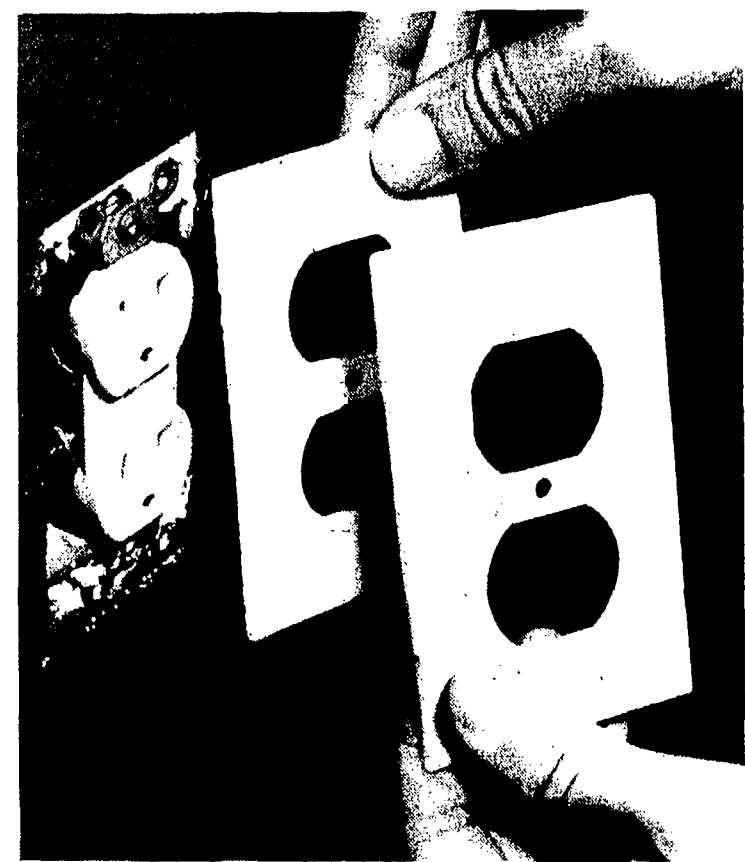
should also be insulated. And whenever possible, the tank should be located as close to the major outlets as possible.

The amount of hot water used in taking showers can also be reduced considerably by installing a restrictor on the shower head. This still provides enough hot water for a good shower.

To save hot water in the laundry, cold water rinses should be used for all fabrics. For washing, the lowest suitable temperature of water should be used for individual fabrics. With many new detergents, cool or warm water can be used to wash a wide range of fabrics.

Another way of saving energy in daily household operations is by not using the drying cycle of the dishwasher. If the dishwasher door is opened after the rinse cycle, the dishes will air dry.

After completing a thorough energy checkup, a homeowner will have a very good idea of the improvements needed to increase household energy savings. And one of the biggest rewards of conservation is just how much better an energy efficient house will feel.



An inexpensive rubber gasket prevents heat loss through electrical outlet holes.

Why are we studying wind power? Because it may help blow oil away.

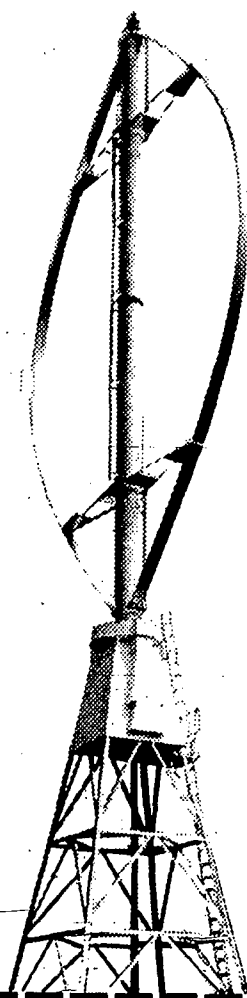
Sun, geothermal heat, tides, small community hydro projects, even waste from the forests. These are just some of the potential power sources we're studying in our search for alternatives. One option that shows special promise: wind energy.

The Christopher Point Project.

In its present state of development, wind power would be too costly for large-scale utility use—about five times as expensive as hydro. But in remote communities located in windy areas it could help in replacing an even more costly option: oil generated power.

That's why B.C. Hydro engineers, together with the National Research Council and B.C. Energy, Mines and Petroleum Resources, have been taking a new look at this old and inexhaustible power resource. At Christopher Point on Vancouver Island, we've been studying the effectiveness of an experimental vertical-axis wind generator—the "eggbeater" type shown in the illustration. Conclusion? Wind power can work.

We're now measuring wind speeds in the Queen Charlottes and on the West Coast of Vancouver Island. If these tests prove satisfactory, our next step will be the



installation of production units, to reduce local dependency on diesel power.

And some of our other explorations.

Solar power. We're monitoring the output of individual solar water heating and space heating installations in some 70 customers' homes throughout B.C. Our scientists are also investigating photovoltaic cells that convert sunlight directly into electricity, a possible future source of energy on a commercial scale.

Geothermal power. B.C. Hydro, working with federal and provincial energy agencies, has been looking into the potential of heat from beneath the earth's crust in the Meager Creek district near Pemberton. Test drilling shows considerable potential for commercial power production.

Tide power. We have completed preliminary assessments of potential tidal power sites at several points along the B.C. coast to determine whether the costs of this power source can be reduced to an economical level.

Waste power. B.C.'s major source of "biomass" (organic material which can be converted into electrical energy) is the wood waste from our forest products industries. For years, Hydro has purchased surplus power from forestry operators for use in the province-wide power grid.

Small hydro projects. We're studying the potential of small, economical hydroelectric plants, which don't require dams, to replace the use of costly oil-fired diesel power in isolated communities.

Hydro's Alternative Energy Update

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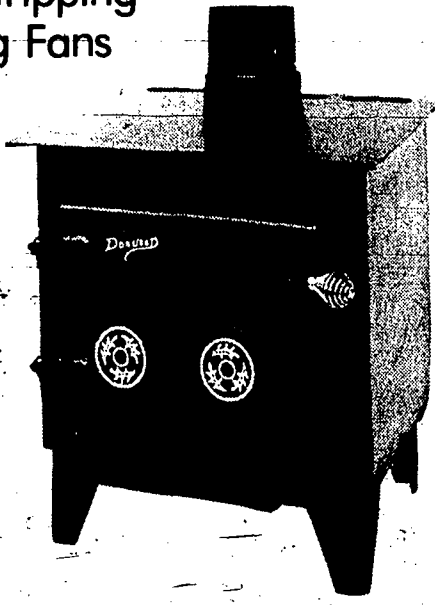
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Alternative fuels can run cars cheaper

If we could run cars and trucks on fuels produced in British Columbia, we could reduce our dependence on imported oil — and probably save money, too.

Some B.C. cars already are equipped with a dual system using gasoline plus an alternative fuel. You may even have seen a few driving around town. But unless they had special signs on them, you wouldn't have known the difference.

Inside, though, they are running either on compressed natural gas (CNG) or propane. Why are these fuels being tested in B.C. as alternatives to gasoline and diesel fuels? There are several important reasons:

- Natural gas is in plentiful supply in Western Canada, and in the past few years it's been discovered more frequently than oil.

- Natural gas and propane both have higher octane than gasoline, burn cleaner and don't need additives to keep engines clean. Some older engines, however, may need lead added to lubricate exhaust valves.

Another big advantage for alternative fuels is their cost. Both CNG and propane are currently about half the cost of gasoline.

Compressed Natural Gas (CNG)

CNG, like natural gas (which is already used as a fuel in many B.C. homes and industries), is essentially methane gas (CH₄). It is initially compressed in tanks at about 21 MPa (3000 psig). This pressure diminishes as the CNG fuel in a tank is used up.

A vehicle has to be modified for CNG by adding one or two extra tanks (usually put in the trunk of the car), plus a gas line to the control and feed system linked to the existing carburetor.

Depending on engine size, most cars get about 160 kilometres per CNG fill without any noticeable difference in performance. Most vehicles using alternative fuels retain their regular fuel system, so slight hesitations in performance are noticeable only during changeovers from one fuel to the other.

The cost of converting a vehicle to CNG is about \$1,800. Part of this can be recovered through a \$600 grant from the federal government for commercial or personal vehicles and a \$200 grant (for personal vehicles only) from the provincial government.

Operating cost is about half as much as gasoline, or about 21 cents per litre. Savings from this lower fuel cost allow a fairly early return on the conversion costs.

For example, someone who drives 16,000 kilometres per year in a car that uses an average of 12 litres per 100 km (25 mpg) will have a payback in just over four years.

Another important reason that CNG is being developed as a vehicle fuel is that tests show that CNG tanks are safer in cars than conventional gasoline tanks.

This is because the ignition range of CNG is very narrow, so unless it is mixed with the right amount of air it will not ignite or explode. And since it is lighter than air, any CNG leaked dissipates quickly.

In the 30 to 40 years that CNG

has been used as a vehicle fuel in Italy, no deaths or injuries have been attributed to its use.

A major survey of CNG powered fleet vehicles found that in the 1,300 collisions since 1970, there has never been a fire involving the CNG system.

The B.C. Hydro Gas Group has about 40 vehicles now operating on CNG. Other fleet owners, such as Black Top Cabs in Vancouver, are considering converting to CNG. And although CNG is not yet readily available to the public, service is expected in the future.

Propane

Converting a vehicle for propane use involves about the same procedures as for CNG and costs the same or slightly less. But propane is easier to compress and liquefy.

Another advantage of propane is that, at present, it's easier to obtain than CNG.

Propane costs about 25 cents per litre, with road tax removed, and is available through B.C. by refill or tank exchange. (Propane tanks should never be used for CNG systems.)

The federal government has a \$400 grant available to convert a commercial or farm vehicle to propane fuel.

Alcohol

Though not yet commercially available in British Columbia, two types of alcohol can be used as vehicle fuels — methanol and ethanol.

Ethanol is the basis of all alcoholic beverages, but when used for vehicle fuel it's specially treated to prevent human consumption. Methanol is often called wood alcohol or methyl alcohol.

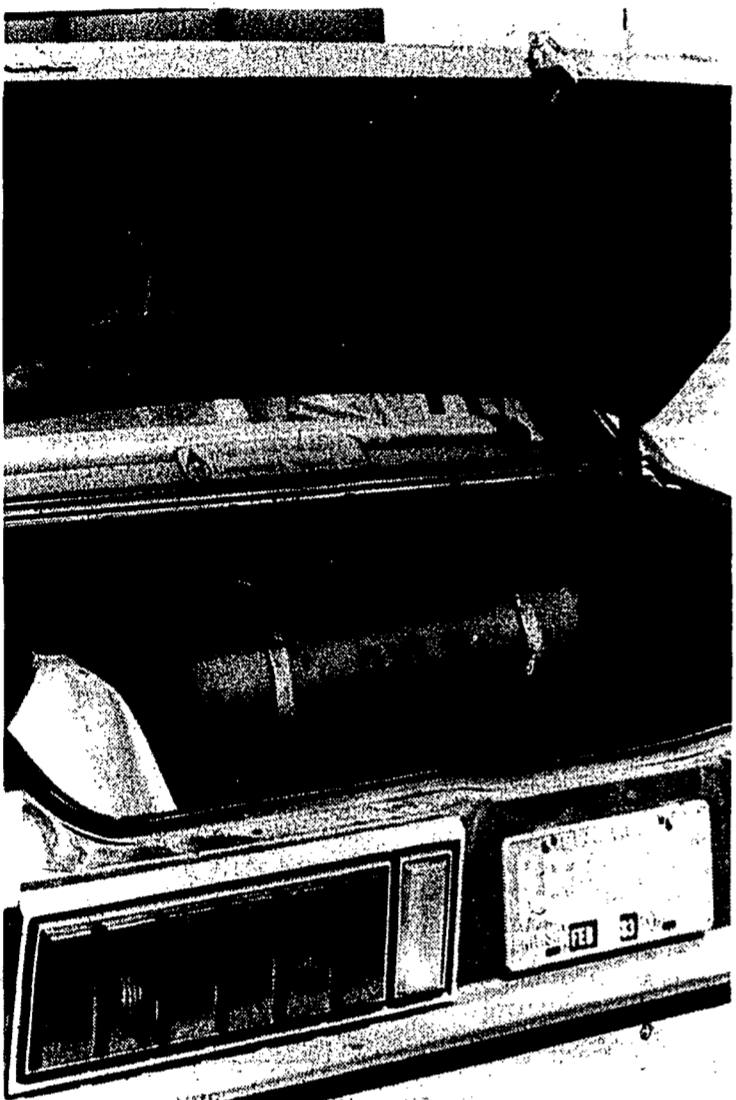
Straight alcohol isn't widely used as a vehicle fuel because it has less energy per unit of volume than gasoline.

This means that greater storage space would be needed to travel the same distance. But since alcohol makes engines run cooler, it has sometimes been used for racing cars.

Alcohol is available at some gas stations in the United States and Manitoba in a mix with gasoline called gasohol. This is ten percent alcohol and 90 percent unleaded gasoline.

Owners of older vehicles have to be careful trying gasohol, as some plastic parts in the fuel system may be swollen or distorted by the alcohol.

Alcohol also has a strong chemical affinity for water, which is why it's used to remove water from gas tanks. So if water or condensation leaks into a gasohol fuel tank, phase separation may occur when the alcohol separates out from the gasoline.



A vehicle equipped for compressed natural gas (CNG) as an alternative to gasoline.

Cheerful fireplaces can waste energy dollars

That friendly fire cheerfully crackling away in your fireplace is warming your heart but probably not your house. In fact, using a fireplace every night during the winter can raise your monthly heating bill by as much as ten per cent.

Here's how it happens. As the fire grows bigger and warmer, it draws more and more room air up the chimney. This in turn sucks colder air into the room from outside, through cracks around doors and windows. So the colder it is outside, the greater will be the loss of energy through this air flow.

Even with the fire out and damper closed, a considerable amount of heat escapes up a fireplace chimney. When the damper is left open, more heat is lost.

However, there are some ways to reduce the heat loss:

- One of the new types of grates or metal fireplace liners will increase the efficiency of your fireplace by putting more heat in to the room and less up the chimney.

- Another idea is to close the doors of the room where you are using a fireplace and slightly open a window in the same room. This provides fresh air for both you and the fire, but prevents the fire from drawing cool outside air in throughout the entire house.

- You might also think about using a fireplace cover to reduce the amount of warm room air drawn up the chimney.

- Specially-designed glass doors can be used to cut down on heat loss, but only if the fireplace is adequately supplied with outside air for combustion.

- When no fire is burning, an inexpensive fireplace plug made of plywood and insulation can be used to fill the fireplace opening completely.

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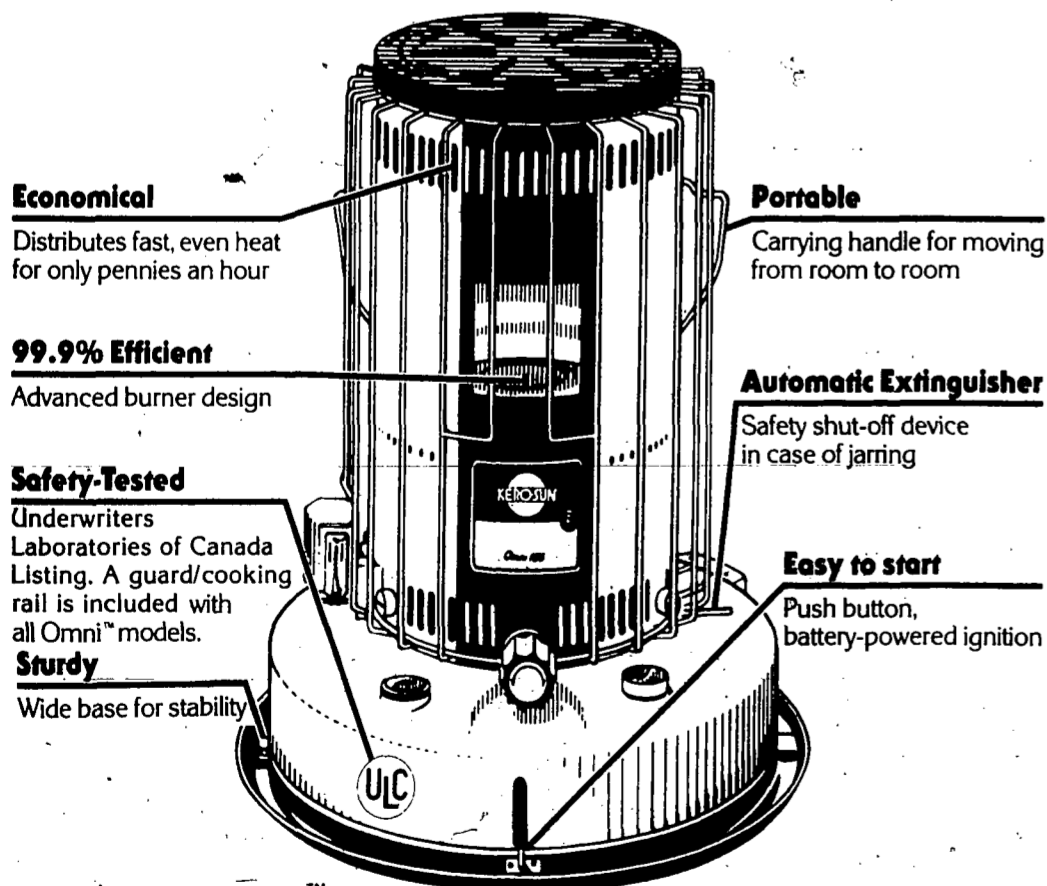
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How insulation pays. And pays.

Inadequate insulation is the biggest energy waster of all. So at today's fuel costs, insulating to recommended standards is an investment that pays for itself, on the average, in less than five years. After that, it pays dividends forever!

CHIP grant extended to newer homes.

Because newer homes may need additional insulation, the Canadian Home Insulation Program has recently been extended to provide a grant of up to \$500 for homes built before 1971 (rather than 1961, as formerly). And, for qualifying Hydro customers, our own Energy Savings and Finance Plan can provide short-term funding up to \$500 at a very favourable 10% interest.

Little things that mean a lot.

Here's how to take care of some of the small losers—little energy enemies which together can add up to a lot of waste:

- (1) Clean or replace the furnace filters at least twice during the heating season.
- (2) Set the thermostat back 5°C before bedtime and when the house is unoccupied. It can save you as much

as 10% on your fuel bill. (To make these savings automatic, you might look into the new programmable thermostats, which, for about \$75 to \$100, turn themselves up and down to preselected settings.)

(3) Consider the installation of insulated storm windows throughout the house. Ensure that door and window frames are properly sealed.

(4) Many older homes lack a proper seal between foundation wall and framing base plate. Check to see if this needs caulking.

(5) Also in the basement, unused ground level windows can be blocked with 3/8" plywood panels, backed with an insulating batt or styrofoam. If windows are sometimes used, inside storm windows can be installed or insulation panels made for easy removal and replacement, as required.

New—plug into savings with these electrical outlet insulators.

This new insulator reduces drafts blowing in through your outlets from exterior walls and takes only seconds to install. Available at your hardware, building supply or department store—and if you'd like a free demonstration sample from Hydro, just check the coupon below.

Help from Hydro.

If you'd like more information about insulation, as well as other ways to reduce your home's energy costs, contact your local B.C. Hydro office or mail this coupon.

Hydro's Winter Preparation Tips

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Wise planning can increase insulation benefits

Spending now on home insulation is like investing in a bond. It gives you comfort now and pays dividends in lower fuel costs on into the future.

To get the greatest value from your insulation dollars, it's important that your insulation be adequate and correctly installed.

The basic purpose of good insulation is to wrap a blanket of comfort over and around the whole house. Years ago, when fuel was cheap, a fairly thin blanket of insulation was enough to keep annual fuel costs within the average family's budget. But today, a thicker blanket is more economical.

No insulation completely stops the flow of heat out of a house, but it does slow it down. This makes it easier to heat a house in winter and takes less energy to maintain a comfortable inside temperature.

The "RSI" or "R" number that appears on an insulation package indicates that material's particular resistance to heat flow. The R number is the old Imperial measure and the RSI is the metric measure. For example, R12 is equivalent to RSI 2.1. The higher the R and RSI number of a particular material, the more resistant it is to heat flow and the more effective it is as insulation.

Do the most cost-effective jobs first

Present standards for the amount of insulation required in homes are minimal and don't reflect energy-efficiency considerations. So most existing homes in B.C. need additional insulation.

Some insulation improvements to existing homes cost less and save more energy than others. Most experts recommend the following order of insulation jobs, beginning with the most cost-effective:

1. Seal all cracks and gaps around window and door frames, baseboards, fireplaces and other masonry with a good caulking

compound. Weatherstrip all windows and doors and other openings such as mail chutes, pet doors and milk boxes. Caulk all openings in the basement, including around door and window frames, the sill plate area at the top of the foundation, the dryer vent, plumbing and wiring inlets and so forth. All caulking and sealing should be done from the inside. (With all the above measures taken, most homes will still have adequate ventilation for fresh air.)

2. Seal all cracks, holes and openings in the attic floor (that come up through from the ceilings of rooms below) with caulking compound.

3. Insulate the attic to at least RSI 5.25 (R30) and preferably to RSI 7 (R40).

4. Basement walls should be insulated to at least RSE 2.1 (R12).

5. If the exterior walls of the house have no insulation, consider having insulation blown into the wall cavities. If, however, there is

a plan to replace exterior siding, it is quite cost-effective to install insulating sheathing material first.

6. Add additional layers of glazing to any single layer windows. If any windows need to be replaced, it's a good idea to replace them with quality hermetically sealed, double-glazed window units.

The best time to put insulation in a house, of course, is when it's being built. It's easier to put it in correctly then and it will last the lifetime of the building.

How much insulation is enough?

Even for new houses, insulation standards today don't yet reflect energy efficiency considerations. But new standards have been proposed by various industry groups. As well, the National Research Council has published recommendations entitled "Measures for Energy Conservation in New Buildings."

Some of these recommendations have been adopted by the Canada Mortgage and Housing

Corporation. And the Canadian Electrical Association has launched an energy efficiency program for homes that call for R40 (RSI 7) insulation in ceilings and R20 (RSI 3.5) in walls. These can be considered as recommended minimums for insulation in new houses or for major renovations.

Some interested groups are now discussing what the standards would be for a "super insulated" house. These houses would probably have air-tight vapour barriers, RSI 10.5 (R60) ceiling insulation, RSI 7 (R40) insulation in 300-mm-thick walls and triple-glazed windows covered with shutters at night.

Even basement floors can be insulated during construction by putting insulation underneath before the concrete is poured.

A few progressive buildings already are building houses like this in colder areas of B.C. and they are now commonly built in Saskatchewan.

Different insulation materials for different jobs

The most readily available insulation materials to be considered for installation are mainly made of mineral fibre, cellulose fibre, or foamed plastic.

Glass fibre insulation in the form of batts is probably the most common. It is resistant to damage, naturally fire resistant and usually has a reasonable RSI value of 0.023 per mm (R value of 3.33 per inch). Friction-fit batts can easily be placed between wall studs and must be covered with a six mil polyethylene vapour barrier.

All batt-type insulation must be covered with a vapour barrier in addition to the interior wall finish. This barrier must go on the warm side of the insulation to reduce the amount of moisture penetrating into the wall or ceiling. Dampness makes insulation more heat conductive, thereby reducing its usefulness.

Six mil polyethylene is the vapour barrier material recommended by most experts. Holes, tears, or cuts in the vapour barrier should be repaired before it is covered with wall finishing.

Whenever possible, plumbing and wiring should be on the warm side of the vapour barrier. Openings where wiring and plumbing must enter through walls and ceilings should be sealed on the inside with caulking compound or gaskets to keep warm moist air from penetrating into the wall and insulation.

Cellulose fibre insulation is made from waste newsprint treated with fire retarding and rodent repelling chemicals. Properly made cellulose fibre is a good insulation material (RSI 0.025 per mm) and is useful for blowing into attics and hollow stud walls of existing homes. A CMHC acceptance number on the bag indicates that it's been properly treated.

When cellulose insulation is blown into a wall cavity several things must be kept in mind:

- Any holes in the inside walls must be covered so insulation won't fill cupboards or other spaces.

- All spaces inside the wall must be filled.

- Cellulose fibre will settle unless it is filled in to the proper density of 36.8 kg/cu.m.

- There are also a few things to keep in mind when blowing cellulose fibre into an attic:

- All gaps in the ceiling must be sealed first with a caulking compound.

- Be careful not to block air vents or eaves.

- Don't cover recessed lighting or other electrical fixtures.

- Don't place fibre against any chimneys, metal, or masonry.

All insulation materials should have a CMHC acceptance number printed on the bag indicating that the material meets all minimum standards.

The R-value list accompanying

this article compares the effectiveness of various materials.

When insulation is installed by a contractor, it's important to be sure that the proper amount is provided at the density needed to achieve the required RSI-value.

More detailed information about specific insulation materials is available from insulation manufacturers and suppliers, building and supply stores, the provincial government and your local B.C. Hydro office.

Foam insulations are often used on flat areas such as basement wall exteriors, flat roofs, or roofs with low slopes. These foam materials are expanded polystyrene, extruded polystyrene, polyurethane, phenolic foam and isocyanurate foam.

These rigid foam insulators generally have much higher RSI-values than other materials and are light, easily handled and easily

cut. However, they are hazardous in case of fire unless they are covered with fire-proof materials, such as gypsum drywall. They can also deteriorate if exposed to sunlight.

The only foam suitable for insulating the outside of basement floors or walls where it will be in constant contact with ground moisture is extruded polystyrene or polyurethane.

When a house is fully wrapped in its blanket of insulation, the only thing left to do is fill in all the joints that aren't snug between walls and door frames and window frames and between frame walls and concrete foundations. These should be sealed or caulked from the inside to stop moisture from entering the wall or ceiling cavity.

Finally, cracks and holes on the outside of walls, where wind-driven rain can get in, should be sealed with caulking compound.



After it is installed, insulation should be covered with a six mil layer of polyethylene to prevent moisture problems.

How to choose a contractor

If you've decided to insulate your home to improve its comfort and value — and the job is too big to do by yourself — you have to find a contractor who will do the work properly.

Incorrectly installed insulation is not only a waste of money, it can cause expensive moisture damage to a building's structure.

While most contractors are reliable, your chances of getting the best job done are better in spring or summer, when there's less demand and thus more contractors available.

But you should always be careful in selecting your contractor. Here are some pointers you should keep in mind.

- Make a list of three or four contractors recommended by neighbours or other people who've had satisfactory work done. Get a list of the contractors' customers and check their work.
- As of November 1981, con-

tractors must be certified by the Canadian General Standard Board for any installation that will be financed by a Canada Home Insulation Program (CHIP) grant.

- Find out about the financial reputation and stability of the contractors from your local Better Business Bureau.

- Make sure the firm is bonded so you'll have legal recourse if your home is damaged in any way.

- Find out if the company's installers are paid by the hour or by the job. If by the job, they may try to rush their work.

- Good contractors will check your house thoroughly (inside and out) before giving an estimate. Follow them on the tour of your house and watch for their attention to detail.

- Get a detailed written estimate from the contractor for any job you want done. It's im-

portant that you specify your insulation needs in terms of RSI or R values, which measure the effectiveness of insulation, not its thickness.

For example, get a quote for adding RSI 4.9 (R28) insulation to your attic, not for adding 200-250 mm of insulation.

The contractor should have a manufacturer's CMHC-approved "attic card" used to determine the number of bags of insulation necessary to produce the desired RSI or R value. Make sure all the bags required have actually been used in your attic.

- Finally, once you've chosen your contractor insist on a detailed contract. Make sure it includes a full description of the work to be done, including air leaks to be sealed, and trap doors and venting to be insulated.

The warranty and any liability provisions should also be included.

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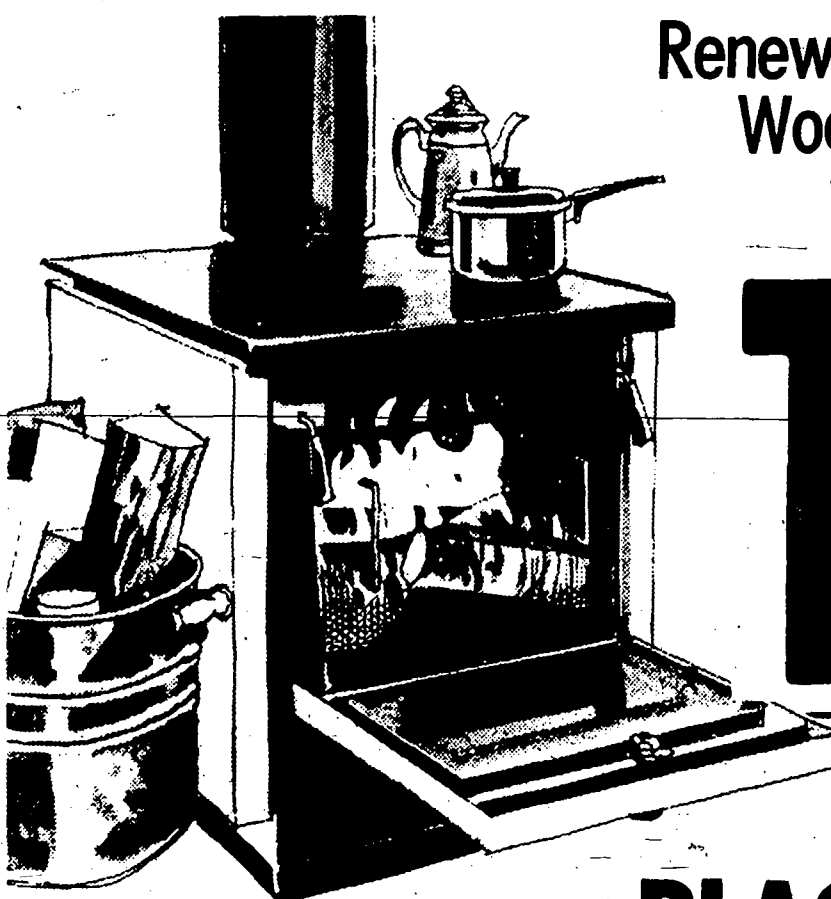
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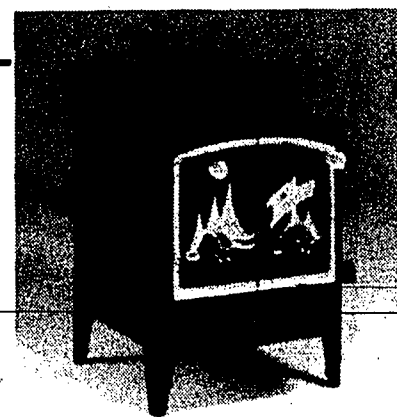
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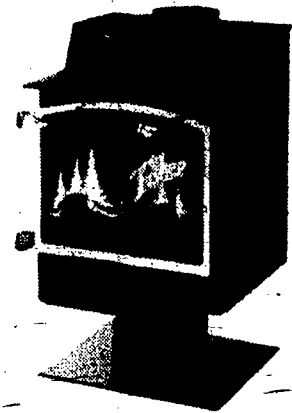
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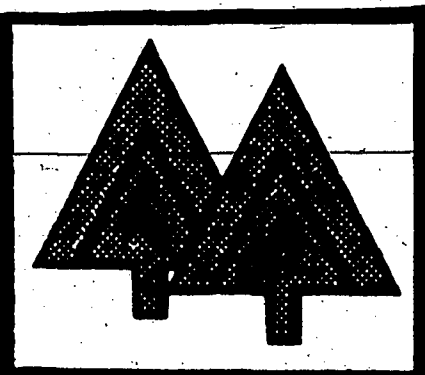
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