



TOTEM TIMES



The Chains Of Habit Are Too Weak To Be Felt Until They Are Too Strong To Be Broken

VOL. 20 - NO. 4

CFB COMOX TOTEM TIMES

THURSDAY, FEBRUARY 23, 1978

VIP's Visit C.F.B. Comox



A WARM WELCOME -- Col. Burgess welcomes General James E. Hill to CFB Comox during the General's recent visit. General Hill is Commander in Chief of NORAD and made a quick trip into Comox to review the facilities here. General Hill took over command in Dec. 1977 from General "Chappie" James.

Base photo

Ten Years Old

Ten years ago this week, Canada embarked on an experiment unique in military annals -- the unification of its three Services.

It was on February 1st, 1968 that legislation to abolish the Royal Canadian Navy, the Canadian Army and the Royal Canadian Air Force was proclaimed, and the Canadian Armed Forces -- a single unified military service -- was created.

Unification was the third and last step in a process which began in 1964 with the appointment of a single Chief of the Defence Staff followed in 1965 by the reorganization of the navy, army and air force command structure and the integration of all operations and services.

The Canadian Forces of today are a far cry from the separate former services from whence they came. Among the more tangible results as the unification process has evolved are the five functional commands where there were eleven, the training schools reduced from 91 to 32 and the military trades streamlined from 346 to 98. And, most visible of all, the common, dark-green uniform.

NORAD Forces To Be Tested

About 12,500 Canadian and United States North American Air Defence Command (NORAD) personnel, including BC region personnel, will take part in a four day worldwide exercise called Vigilant Overview, to test its aerospace warning and defence system March 6 - 9.

The quarterly exercise is conducted to give the US-Canadian command a realistic picture of how well it performs its missions of providing immediate warning of an air, space or missile attack and defending against air attack.

Air crews from the 409 All Weather Fighter Squadron at Canadian Forces Base Comox will take part in the exercise. Also involved from the BC region will be the Canadian Forces Station (CFS) at Baldy Hughes near Prince George, CFS Kamloops and CFS Holberg on Vancouver Island.

NORAD's US and Canadian aerospace defence units across North America and at other worldwide locations will

Operation Morning Light

Cosmos 954 ... An Update

OPERATION MORNING LIGHT is under Canadian control with the U.S. providing welcome and valuable assistance. The on-scene commander is Canadian Forces Colonel David Garland who is responsible for overall operations including activities of both the U.S. and Canadian personnel. Lieutenant Colonel Stu McGowan has been appointed commander at Warden's Grove.

24 Jan 78
Soviet Cosmos 954 entered the earth's atmosphere at 0353 PST (0653) north of the Queen Charlotte Islands on Canada's Pacific coast. Following approximately a three minute burn period during re-entry, pieces of the satellite impacted in the Northwest Territories between Great Slave Lake (62 degrees 30' N 114 degrees W) and Baker Lake (64 degrees 30' N 96 degrees W).

At 0910 EST (0910) the U.S. Department of Energy contacted the Canadian Department of National Defence to ask what assistance Canada might require from the U.S. Following discussions it was determined that USAF transport aircraft (C141s) would deliver U.S. gamma radiation detection equipment to Edmonton for installation to Canadian CC130 Hercules aircraft. During the morning U.S. aircraft, on request, also conducted high altitude air sampling flights for gamma radiation over Alberta and Saskatchewan. Results showed no gamma radiation.

The gamma radiation detection equipment arrived by USAF C141s at 1738 MST (1938). Four Canadian CC130 Hercules aircraft were standing by for installation of the equipment. Meanwhile, the radiation monitoring section of the Edmonton nuclear accident support team arrived in Yellowknife, NWT.

25 Jan 78
By early morning the radiation monitoring equipment was installed in the Hercules and three aircraft started searching along the satellite track between Fort Reliance, near the northeast end of Great Slave Lake, and Baker Lake, some 500 miles to the northeast. At 1000 EST (1000), U.S. aircraft commenced a second air sampling mission over

Michigan and Northern Ontario. Results of these tests also showed no abnormal radiation levels.

During the day the radiation monitoring section conducted ground radiation monitoring in both Yellowknife and Fort Reliance. Results of monitoring also showed no abnormal radiation levels.

26 and 27 Jan 78
The search continued during both days with no conclusive detection of satellite debris. On 26 Jan the radiation monitoring section was flown to Baker Lake where ground monitoring showed no increase in normal radiation levels. Also on 26 Jan., the Canadian radiation monitoring kit from the Department of Energy, Mines and Resources arrived in Edmonton and was installed in a Hercules aircraft. Up to 12 aircraft (11 Canadian) were involved in the search during the two days: three CC130 Hercules, three CC138 Twin Otters, three CC135 Twin Huey helicopters, one CH147 Chinook heavy lift helicopter and one U.S. Department of Energy Convair with infra red equipment. On 27 Jan the first radiation hot spot was detected using the Canadian radiation monitoring kit in the McLeod Bay area north of Fort Reliance in the northeast end of Great Slave Lake.

28 Jan 78
During the morning three radiation hot spots were detected by search aircraft on McLeod Bay. Two of the spots were later confirmed as satellite debris. By late afternoon, it was reported that two men of six in the Warden's Grove area, some 200 miles northeast of Fort Reliance, had discovered and touched an object on the nearby Thelon River ice. All six men from the Warden's Grove area were evacuated for radiation testing at Yellowknife and Edmonton. Tests indicated that none had picked up any radiation.

(Continued on page 5)



AW NUTS, JUST MY LUCK! -- Here I am for my spring stretch and its Op Eval time -- and me without my area pass -- O.K. guys, don't shoot, I'll go quietly.

Relief For Nive

OTTAWA - When the Canadian Forces' destroyer HMCS Restigouche sailed out of Apia, Samoa in the South Pacific Feb. 12, she carried emergency food supplies for the 700 drought-stricken inhabitants of Nive, a small island approximately 400 miles southeast.

Nive's inhabitants are in the midst of a severe southern summer drought.

In keeping with the South Pacific humanitarian custom of inter-island cooperation and assistance, the Western Samoan government initiated a drought relief programme. But they were lacking immediate means of transporting supplies, and the presence of the Canadian

(Continued on page 2)



TOPPING UP -- Maj. Gen. G. Allan MacKenzie tops up at the Sr. NCO's salad bar during his recent visit to CFB Comox. The General has been recently promoted and will succeed Lt. Gen. Bill Carr as commander of Air Command this year. His visit to Comox extended over several days as the General reviewed the facilities at the Base -- Chief Elvins looks on with a sly grin!

Base photo

**NEXT
TOTEM TIMES
DEADLINE
MON., MAR. 6
NOON**

Crossing The Line

It indeed will be a memorable day Sunday for 502 Victoria-based sailors, who under the circumstances rather reluctantly, but nevertheless proudly, graduate from the status of "young tadpoles to riotous backs."

Sunday marks the "crossing the line" ceremonies which will temporarily dominate an otherwise serious and purposeful Southwest Pacific operational deployment for the Second Canadian Destroyer Squadrons Kootenay and Restigouche and Maritime Forces Pacific supply ship Provider.

King Neptune and his entire court will arrive aboard all three ships to challenge those who dare to intrude his domain without first being judged as clean and pure. It's understood by those who

know, that the king's retributive judge will show no mercy, nor will his ambitious barber arrive with dull shears.

King Neptune's herald will arrive on board Saturday night. He will be accompanied by Davey Jones, his secretary, a mermaid, two bears and a bugler. He will undoubtedly conduct a harsh inspection of the lowly tadpole guard, using, with some flourish, two very dead fish to clean its members, and to generally prepare the way for the king Sunday.

The uninitiated will long remember:

"A tadpole I am, but cannot remain
For I have not crossed the line
To Neptune's domain
So to your great king take this report
I'll be subject to trail in his oceanic court"

And I'll submit to bath and potions

To become a shell-back in his mighty oceans."

NOTE TO THE EDITORS: With its origins dating back to the beginnings of the 19th century, the Crossing the Line Ceremony is the Navy's

traditionally humorous way of initiating young men into the "Order of Old Salts" -- the ranks of those who have crossed the Equator. Those tadpoles that survive the mock trial, the shaving and the dunking by the Bears are then considered "Loyal Subjects of Neptunus Rex."

Dash-7s To West Germany

Defence Minister Barney Danson announced Feb. 16 the decision to purchase two Canadian made de Havilland DHC-7s (DASH-7s) for the Canadian Armed Forces.

The 50-seat, four-engined Short Take Off and Landing (STOL) aircraft being produced by the Toronto company will be used in a

passenger and freight transport role by the Canadian Forces in West Germany.

The new aircraft will replace a Canadian CC-109 Cosmopolitan, a twin-engined turboprop transport assigned to Canadian Forces Europe on a regular rotating basis from Canada. The "Cosmo" entered service in 1960.

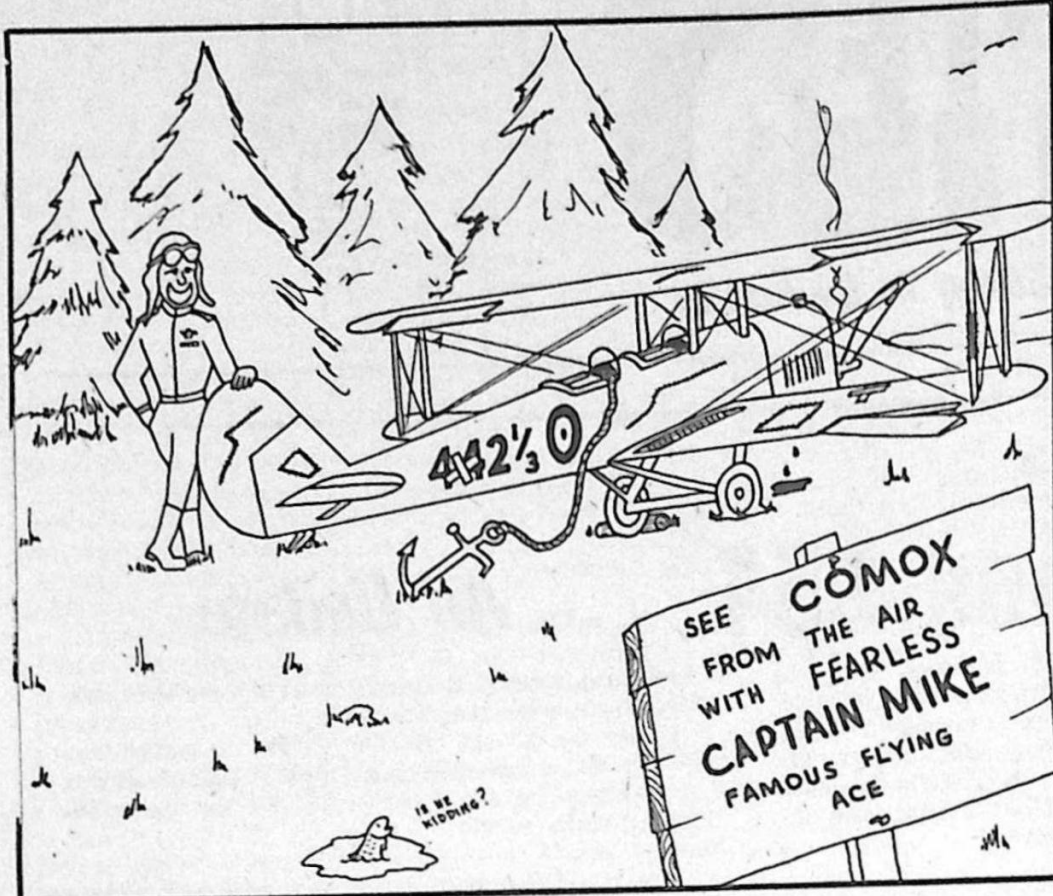


STACK AND COLEMAN ENTERPRISES OPENS NEW FACILITIES -- Two smiling Padres express their joy as Col. Burgess cuts the ribbon to open their renovated premises. The Padres' offices in the

Headquarters Building underwent an extensive facelift recently -- y'all come down and see us now, you hear!

Base photo

Section News



Mushroom Mutterings

Not satisfied to scare the h— out of his squadron mates, Mike Shea has announced a grandios plan to "get" any civilian unsuspecting enough to fly with him. Air tours of the area — sneaky, sneaky, Mike!! By the way, do 442 members get a discount??

Somebody left the hangar doors open late last week, and person or persons unknown slipped a Twin-Huey in amongst our colorful birds. Not only that but a group of strange-looking individuals charged in as well. Very strange — wearing parkas and toques and speaking alien phrases such as, "snow", "cold", "six feet deep", and "shovel".

The group are aircrew and techs from 430 (Tactical Helicopter) Squadron here from Val Cartier to provide some back-up for 442 during the upcoming Herring season — and to enjoy some of the finer things in life, like the weather (B.C. Wet), tourism (Yes, Virginia, that is a mountain!), and exquisite cuisine (fish AGAIN?!). Welcome, gentlemen, or should we say, "Bon Jour". We'll try to make your visit interesting.

2 Crew's "Playmate" is getting a taste of travel to exotic places early in her career. Yvonne is away to Summerside to ply the Rigger trade on the "spin-wing

things" there on a temporary basis. The 442-types already there are bored and want to come home (before the "Blue-Back" season starts). Travel prepared, Yvonne!! We hear the night-life down east is unbelievable.

Some "armchair warrior" decided to letter the choppers in accord with the B & B Commission rulings. The result is a large white patch on each side with the appropriate wording. Unfortunately, at distances greater than fifty feet, you can't read the words and all that's visible is the white panel.

A U.S. Navy CH46 Sea

Knight (that's a CHJ13A Voyager to the uninformed) dropped in for a visit last week. It hadn't been on the ground ten minutes when someone "zapped" it. The bearded crewchief had the last laugh though. They left 442 air and ground crew alike with their mouths hanging open as they calmly folded the Sea Knight's rotor blades for the stay. This started all sorts of schemes on how to swap their top ends for a pair of ours.

The 442 Senior NCO's are kind, generous, wise, highly skilled, trusting, brave ... and it's PER time!!!

Relief For Niue's Drought Problem

(Continued from page 1) warship in Apia solved the problem.

After unloading the supplies at Niue, Restigouche continued with her scheduled operational deployment in the area.

Two other Canadian ships, the destroyer Kootenay and the operational supply ship Provider, also are participating in the South Pacific

deployment and will make port visits to Nuka Alofa, Tonga, and Suva, Fiji.

The three ships will rendezvous Feb. 16 off the coast of New Zealand.

The three Esquimalt-based Maritime Forces Pacific ships are Commanded by Captain (N) S.W. Riddell, commander of Second Canadian Destroyer Squadron. They will return home May 5.

Nighthawks Nest

The Ides of February are now upon us, but it was not necessary to be aware. The SOOT team arrived on schedule but the ADG team was hung up in Edmonton with a U.S. ("Not to be confused with U.S." — Bruce and Jerry.) Cosmo. So Op Eval got off to a slow start Monday with a SIM and a few flights delayed by poor weather. There is one good thing about ground school preparations for TAC EVAL: they are now over for another year.

B Flight, a fantastic flight, bit the dust again. A Flight, the better, defeated B Flight in the second "all out war" Cudgel Caper. Maj. Mahon did not mind wearing the ball and chain for the evening, but not home. We understand he walks in his sleep, and the Mae West he wears to bed would not help him a bit.

409 mugged out three Squadron members, Larry Reigart, Ron Hallstrom and Bart Wickham. Larry is leaving us for Ottawa to work on the new fighter. Ron is moving a short distance to RCC in Victoria. Ron's vast knowledge and years of experience will be greatly missed. But, let us look at the loss on the bright side: it sure will bring the average age of the Squadron down.

And now that Ron has left, Charlie Hardy wanders around the Squadron aimlessly. Smedley Wickham is off to Moose Jaw to complete the last phase of wings training. Smedley managed to gross out all in attendance, including the female nurses present, with his joke. If his

little joke is true, Bart should become an Ace of Aces fighter pilot.

Congratulations to Donna and Mark Shaddock on their first born, a son. Donna scrambled Mark out of the Q last Saturday morning and still arrived early Sunday morning. Obviously Mark is going to have to teach the youngster how to scramble a little quicker than that. The young lad's name is Still Pending.

Congratulations to Andy Dobson on his wedding engagement.

There was a general visit to 409 Squadron last week. General Hill, the CINC Norad, and MGen MacKenzie, the Deputy Commander ADG, were briefed on 409 Squadron's operations. MGen MacKenzie was the guest speaker at the mixed mess dinner last Friday.

In March 409 crews will be flying down to Boise, Idaho, to fly with the Boise ANG F-4s. Bill Cleland and Maj. Pomerleau flew down to Boise to set up all the necessary details and also arrange missions with Utah ANG at Hill AFB. Utah ANG is flying F-100s and F-105s.

Maj. Goodall escorted Nick Lees around 409 Squadron last Friday. Nick is a writer for Weekend Magazine for Edmonton. Nick will be writing approximately a page in the Weekend on his tour, briefing, and Voodoo trip.

Stranger Ron Coleman will be returning in the first part of March. Ron is 409's representative for the study of the new fighter aircraft.

Winter War Games

A Canadian battalion group consisting of 1st Battalion, The Royal Canadian Regiment, London, Ont., and support elements will participate in Exercise Arctic Express, the large-scale NATO winter training exercise in northern Norway February 14 to March 14.

The troops and their equipment, including armored personnel carriers and over snow vehicles, will be airlifted in C-130 Hercules and CC-137 Boeing 707 transports from CFB Trenton, Ont., to Bardufoss, Norway.

Arctic Express will test rapid deployment procedures of the multi-national Allied Command Europe Mobile

Force (Land) to the Tromsø area of northern Norway, some 200 miles north of the Arctic Circle.

Participating with the Canadians are Norwegian, British, Italian, German, Dutch and American sea, land

and air forces totalling over 15,000 men, under the direction of Britain's General Sir Peter Whiteley, commander-in-chief Northern Europe, and Norway's Lieutenant-General Toenne Huitfeldt, commander Allied Forces North Norway.

in Edmonton, requiring a 407 Argus to come to the rescue. So don't be alarmed by all the strange bodies with a pen in hand and a thousand embarrassing questions.

We have a new squadron public information officer. Capt. Ken Kennedy has taken over from Murray Haines. With Ken's silver tongue the Totem Times may have to reserve more space for this article.

After a short stay by Capt. Dave Johnson and an even shorter term by Capt. Poole, Capt. Bill Reynaert has resumed duties as Deputy Dog. They wanted you back so much, Bill, that a new office was built.

Squadron hockey is progressing well. The "B" league set a season record

(for themselves) with a 3-game winning streak. But the teams still need your continued support.

The semi-annual physical fitness test is on the horizon, just a few weeks left to do it in. So break out your runners and get at it. And if you don't like running just think of it this way — it sure feels good when you finish.

A few posting messages are starting to trickle in. The usual scene of mixed emotions is evident with cries of "But I don't want to sell my house" being the most common.

In closing, one little piece of aggravation has been removed. Servicing has finally received their "snuffer valves" and "flap tracks", so we don't have to listen to that each day.

happenings at cfb comox



SMO-O-O-TH -- Receiving Good Show Awards from the Base Commander, Col. Bruce Burgess, are Maj. John Arnold, C.O. of VU33, and Capt. Keith Hummel. The awards are to commend the two VU 33 pilots for their skillful "wheels up" landing of a CP121 Tracker here at CFB Comox during the late summer of 1977. Base photo

Demon Doin's

Crew One has just returned from NAS Moffett. Being the lone 407 Squadron crew taking part in the exercise was no hindrance as good results were achieved.

407 Squadron is having its annual OPEVAL and inspection this week. It's taking a while for everyone to arrive though. Part of the team arrived on two Argus that flew in with crews from MOAT. Another group was stranded

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ANNOUNCES

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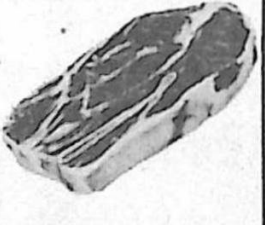
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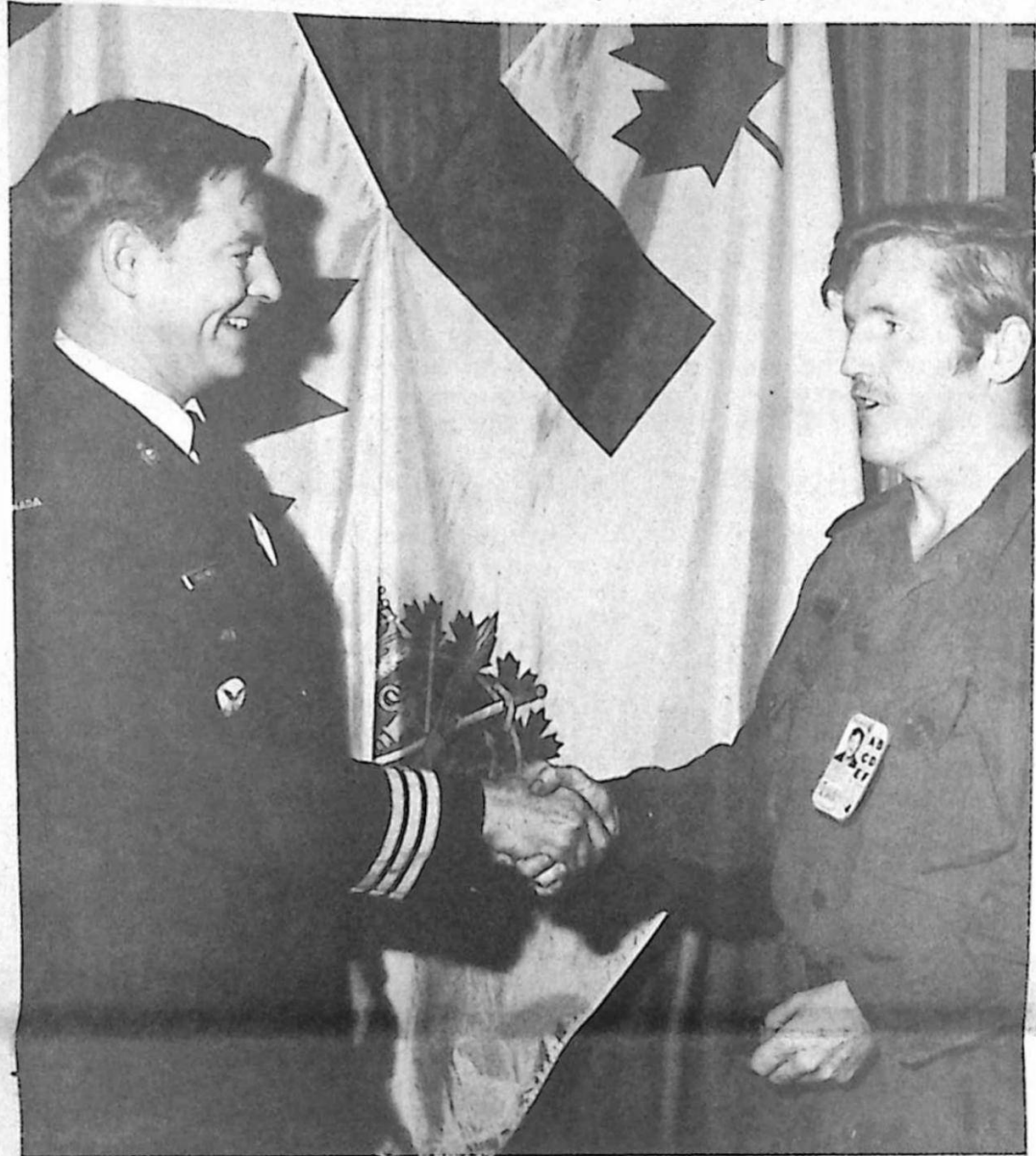
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WO GORD KENT gets congratulations from LCol. Bert Konnings on his recent promotion up from Sergeant. Base photo



ERNIE VINCENT GETS a handshake from LCol Bob Hollowell to go with his new Master Corporal hooks. Base photo

Yankee-Chat

Here at Det 5, CFB Comox, we have uncovered two USAF individuals who not only take their job seriously, but also take their personal health just as serious. MSgt. John R. Woods and SSgt. George Scholer are both dedicated joggers.

MSgt. John R. Woods has been running since Dec. of '75. When asked what motivated him to run he replied; "There are several reasons, one was my desire to quit smoking. I noticed I'd play with my kids and I'd get tired very quickly due to a shortness of breath. So I decided the best way to get back into shape was to start jogging. I also like my beer and love to eat so I knew I had to do something to maintain my weight."

John started out jogging one mile a day and is currently at a four to five mile clip. John tries to run everyday but on the days he has basketball practice and games he conserves his energy. I asked John what does he think of while running those long four and five miles. "Well, I find I'm able to think and solve problems better cause my mind is clear. I find that jogging somehow stimulates my brain. After a long run my body feels much better and I know I could make it through the rest of the day."

John started recording his miles fourteen months ago and so as of Dec. '77 he has accumulated over 700 miles. Recently hampered by a few foot and knee injuries John still intends to reach his magic goal of 1,200 miles sometime around August of '78. John feels that jogging has definitely helped his physical profile, he no longer has a racing heart beat and he no longer coughs like he once did before he gave up smoking. These are just a few advantages besides just staying fit and healthy. SSgt. George Scholer first

started serious jogging in January of this year. His reasons were very similar to John's. He too wanted to quit smoking and lose weight. He started out with one mile sprints and within a few months gradually increased it to two and three miles. While George is running he never thinks of the distance. He prefers to take in the sights around him. He says, "I seem to observe more of the area. I see things that I would never notice when I'm driving by them."

George seldom misses a day of running and this includes the weekend. No matter what the weather is like, he's out there. George finds it very challenging to run even further during extreme weather conditions. When asked why he did this he replied, "It gives me that personal satisfaction knowing I didn't give up cause it was too cold, snowing or raining, and I ran further than anyone else."

George is now up to five and seven miles per day and at the end of December '77 he will have accumulated 802 miles. His magic goal of 1,200 will become reality hopefully by April of '78. If he makes it, he



Did you know that 5000 Canadians are stricken with breast cancer each year? There is a 75 per cent chance of being cured if the cancer is discovered in time. Self-examination of the breast, once a month, will reveal any irregularity and allow you to consult your physician immediately.

Firing Away

Dear Chief:

I am taking this opportunity to thank you for putting out the fire in my house, although I do not live in that house any longer. I realize now that a fire in the cellar is fairly easy to put out. You just fill it up with water. Too bad the fire wasn't in my cellar.

Knowing very little about fires, I was surprised that a fire that started on my ironing board could cause so much damage. I was quite worried when the fire engines arrived, with all that confusion and running around. My husband said, "It's a good thing it was day time, or there might have been more accidents." I hope the man who fell off the fire engine when it lurched to a halt in front of the house is all right. He was very lucky. That other engine - the big one - just missed running him over.

They were really fast at getting the hose off the engine, piling it up in the middle of the road, and looking for the ends. One man pulled out one end, put a nozzle on it, and dashed into the house. Another man found the other end, put a nozzle on it, and ran into the other side of the building. These men were both shouting, "Start water."

I felt so sorry for the man with the cap, who was left behind with the engine. He was wringing his hands and didn't seem to know what else to do. So he got into the engine and drove it down the street out of sight. I also felt sorry for the man with the white helmet who kept dropping his lantern and waving his arms. Lucky for him it was a mild day, because when water finally came out of the hose, it went all over him. I was too far away to hear what he said, but he seemed very angry and upset.

After awhile, I thought it best to get some of my belongings, because the fire was getting worse. I was gathering up some of my more valuable possessions when two men with masks and tanks on their backs rescued me. How thoughtful of them.

They were in an excitable state, speaking incoherently through the masks. One pointed to a door; I tried to warn them that it was a closet, but it was too late. They opened the door and dashed in. I was able to get the bigger fellow out without too much trouble, but the smaller man's tank was caught in the wall. He certainly hit that wall hard, and the big man was right behind him!

I immediately ran to a window to attract attention. I knew there were a lot of men outside running around and yelling. Just then, a man with "Lieut." on his helmet and another man with "Capt." on his helmet, who were running around the house at top speed, collided head-on. The "Capt." was furious. The "Lieut." didn't get up. It's a good thing that they finally moved though, because that's where the big metal ladder landed when it fell over.

In the excitement, someone closed the door to the closet where the smaller man was. It wasn't until a bell on his tank started ringing that he was remembered. You people certainly think of everything. Imagine, a bell that rings when you get caught in a closet.

They got the poor man out, but he almost suffocated when they attempted to revive him with that resuscitator machine. Everyone was arguing over how to use it. Fortunately, he had enough strength left to keep pushing the mask off his face, or he might have smothered then and there.

I went upstairs. It was very hot and smoky up there, but when I opened the windows, it wasn't bad. Outside some men were struggling with a ladder caught in a tree. Someone had moved it, stranding a man up there, and now they were trying to get it back because he was unable to get down.

Then I heard a lot of noise coming from the stairs - hacking, coughing and swearing. The language was awful. A man was yelling at the others, "Get up there, get up there." Through the smoke, I could see a man lying on the top step. He shouted, "Hey Lou, there's a lady up there." It must have been Lou who yelled back, "Give her the line, may be she can get a shot at it, and watch your language, you guys."

Because of the difficulty I had with the hose line, I would suggest that you have your bigger men hold these hoses, and the smaller men run around with the tools.

If you remember, once the fire was out, there was a rash of accidents. A man with a white hat and some stars on his coat came upstairs and berated the man with "Lieut." on his hat for not throwing the debris out the window.

A short time later, there were shouts of "Stop." The man with the white hat had just gotten hit with a sofa. The safety driver was injured and almost drowned when he fell through a hole into the cellar. A chair had been placed over the hole, but the chief who had gotten all wet told the fellow to remove it because someone might trip over it. He told the safety officer he was a dopey bastard anyway. Such language!

A "Lieut." was making a close examination of a wall when someone struck it from the opposite side with a heavy tool. The "Lieut." seemed all right, but his helmet was wedged on his head; they couldn't get it off. He also appeared somewhat shorter.

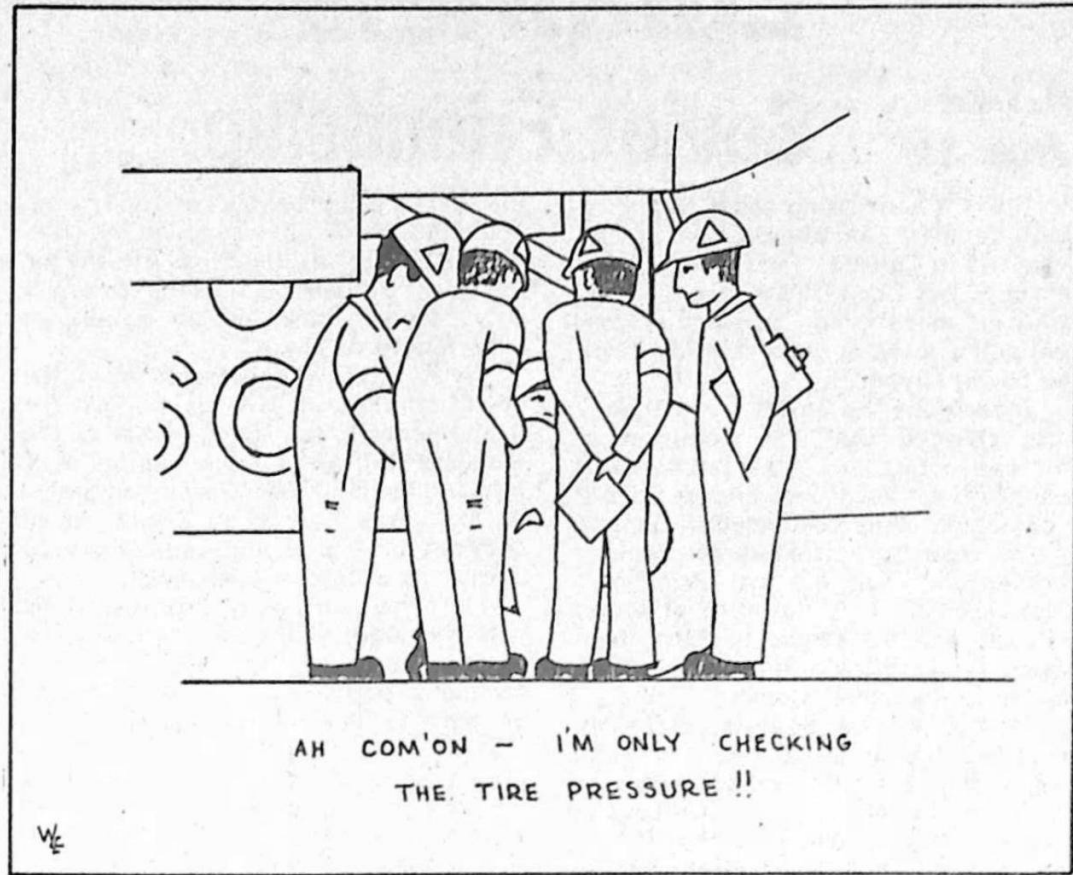
The man with the white helmet was pleasant to me even though he was still quite wet. He told me how lucky I was, and pointed out to myself and my neighbours the importance of immediately calling the fire department in case of fire. Most big fires are the result of delayed alarms. Imagine what would have happened had I waited.

In closing, I would like to say we haven't had as much commotion and excitement around here since a little boy rang a false alarm, and the big ladder truck rolled down the hill and ran into the car with the bell on the front.

Thank you again for your efforts on my behalf. I promise not to leave the iron on the ironing board again.

Sincerely,
A grateful citizen.
Fire Command
NFPA

Inspection Teams In Comox



AM COM'ON - I'M ONLY CHECKING THE TIRE PRESSURE !!

ATC News

Well, by press time OPS EVAL '78 will have come and gone, and hopefully the Base will have passed. As of Sunday night the Cosmo A-C with all the wheels is sitting in Namao with a broken generator. Time will tell.

It has been fairly quiet around the section with about half the guys away in Vancouver playing hockey and some flu doing the rounds.

Capt. Art Brooks and Fred Kempe have been selected to attend the ATC Supervisors course to be held in Borden in March. Two weeks away from Comox is OK but not in Borden.

Help Yourself

Do you help CE to help you? When you phone in with a problem, we need sufficient detail to make a proper response; we need your name, telephone number, location, and what time some member of the family will be at home to let the tradesman in. It's a two-way street - often our tradesmen call at a married quarter two or three times before finding someone at home, after being advised by the occupant that someone will be there. That wasted travelling time means that some other MQ neighbour has to wait that much longer to have his repair carried out.

ENJOYING ELECTRONICS

Tips To Help You

"Music produces a kind of pleasure which human nature cannot do without." Confucius said 2,500 years ago. Today, much of our music comes from sophisticated audio component systems.



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Editorials

A View From Stu

Soviet Friendship

"It is a distressing thing to friendship" Trudeau said about Soviet spying activities in Canada, "and I very much regret it, but I don't think it will -- certainly not in my mind -- prevent us from continuing to have good relations with the Soviet Union."

Meanwhile the Soviet news agency Tass charged that the expulsion of thirteen spies is "unfriendly and manifestly provocative", and is "part of a campaign being conducted in Canada against reducing tensions and improving relations between the two countries." Tass claimed "it is the work of secret services and the forces backing them which systematically engineer actions hostile to the Soviet Union."

Although the Soviets blatantly betrayed the trust of the Canadian people, they are indignant and accusing as if we had done them an injustice. Not only are they unconcerned that it was their actions which jeopardized friendly relations, but it now is us who are making light of the situation, who are expressing hope that good relations will continue, and who appear almost apologetic for having caused the Soviets this embarrassment.

Notwithstanding Canada's effort to be the ideal world citizen, we should not let it blind us to the reality of Soviet intentions. The time has come for us to assess exactly what Soviet "friendship" means, and to determine whether or not we would be better off without it.

Since Prime Minister Trudeau came to power and began soliciting Soviet friendship, eight incidents of Soviet spying in Canada have become public. The Friendship Protocol which Trudeau signed with the Soviets in 1971 is strictly a one-sided commitment.

Now we hear allegations that Soviet KGB operations in Canada are being financed through Soviet controlled companies, and that the Soviets are shipping arms to Quebec via Cuba. They have supplied arms and encouragement to most other revolutionary or separatist groups in the world; there is no reason to believe Canada should be an exception. Prime Minister Trudeau admits that

the Soviets will probably keep on spying, and although we have expelled the chief of KGB operations, the Press Attache for the Soviet Embassy claims that they will only "send in other people equally as experienced as those."

A Russian who defected from the Soviet embassy in 1946 claims that the Ambassador is the sole member of or embassy staff who is not a member of or working for the KGB. The United States is the main object of Soviet world domination he said, and Canada is used simply as a base of operations.

Another embassy member who defected eight years ago claimed "the main purpose of the KGB is not intelligence gathering; it is an extension or part of the foreign policy of the USSR." The purpose of this 300,000 strong army is to slowly subvert and prepare public opinion in the host country for Russian socialism and eventual domination. This Russian could see "very clearly that unions, universities and the media are being affected by the Soviet subversive organizations."

"World domination is the final goal and it is clearly defined in the statements of the leaders" he said.

Thus, to the Soviets, a country is "friendly" only when it lacks the power or the will to resist the gradual encroachment of Soviet domination.

Should we be "friendly" to the USSR? By selling grain to the Soviets, we merely allow them to take people from the fields and put them to work in the munitions factories. By trading with them they will take our technology and use it to enhance their war machine. If we allow them in our country, they will spy and attempt to subvert us.

We have nothing to gain by pursuing "friendly" relations with the Soviets, and run the risk of losing our democratic freedoms if we do.

We do not need or want Soviet "friendship". Their only objective is to dominate us, and as one Russian defector stated, by being "friends" with them we simply make their job ten times easier.

NATO ... New Light On Weakness

Courtesy of The Victoria Daily Colonist

NATO is not quite dominating the bar room and dinner table conversation around Western Europe but the North Atlantic Treaty Organization is an object of more European public attention these days than at any time since the Soviet-led invasion of Czechoslovakia nearly a decade ago.

While still a long way from being a burning topic, the broad issues of NATO, the Warsaw Pact and the balance of power between the two blocs have emerged in the last several months from the dormant state in which they had lain for many years.

Certainly the general public in many West European countries is getting a chance to read, hear and see more about the state of Western Europe's defences than it has in a long time.

Many newspapers and magazines around Western Europe have noticeably stepped up their output of articles and features on NATO and the Russian build-up in the last few months.

All the facts and opinions now being put before the West European public about NATO and the steadily expanding Soviet military machine are making it more difficult every day for Europeans simply to ignore the subject of their own security, as many of them have done for years.

The cold truth now confronting the European public through the current media discussion is that the European allies' overall defence effort has been declining steadily in real terms since the late '60s, while the Kremlin has been relentlessly building up the size and quality of Soviet forces, not only along the front line in Central Europe but all over the globe.

In years past, many of the European allies tended to dismiss warnings of the mounting Soviet "threat" in full confidence (usually proven well-founded) that the United States, as NATO's dominant power, would fill whatever serious gaps appeared in the alliance's defences.

So, while West Germany has built up its Bundeswehr to the largest (490,000 soldiers) and best-equipped European NATO army, and Britain has added new weapons to its 50,000-man army in

Germany, most other European allies have let their forces, as well as their real-term defence budgets, shrink through the last decade.

Only this year have the Europeans finally pledged to try to arrest this trend with a modest three per cent increase in their defence out-lays over the next few years.

But this is barely a drop in the bucket compared to what the European allies will need to do by way of new weapons, equipment and military manpower if they are to counter the dramatic increase in Soviet strength.

And the Europeans can no longer look to the United States to fill the gap alone. Washington has told the continental allies flatly that any further augmentation of the U.S. commitment to NATO must be accompanied by corresponding defence increases from their side.

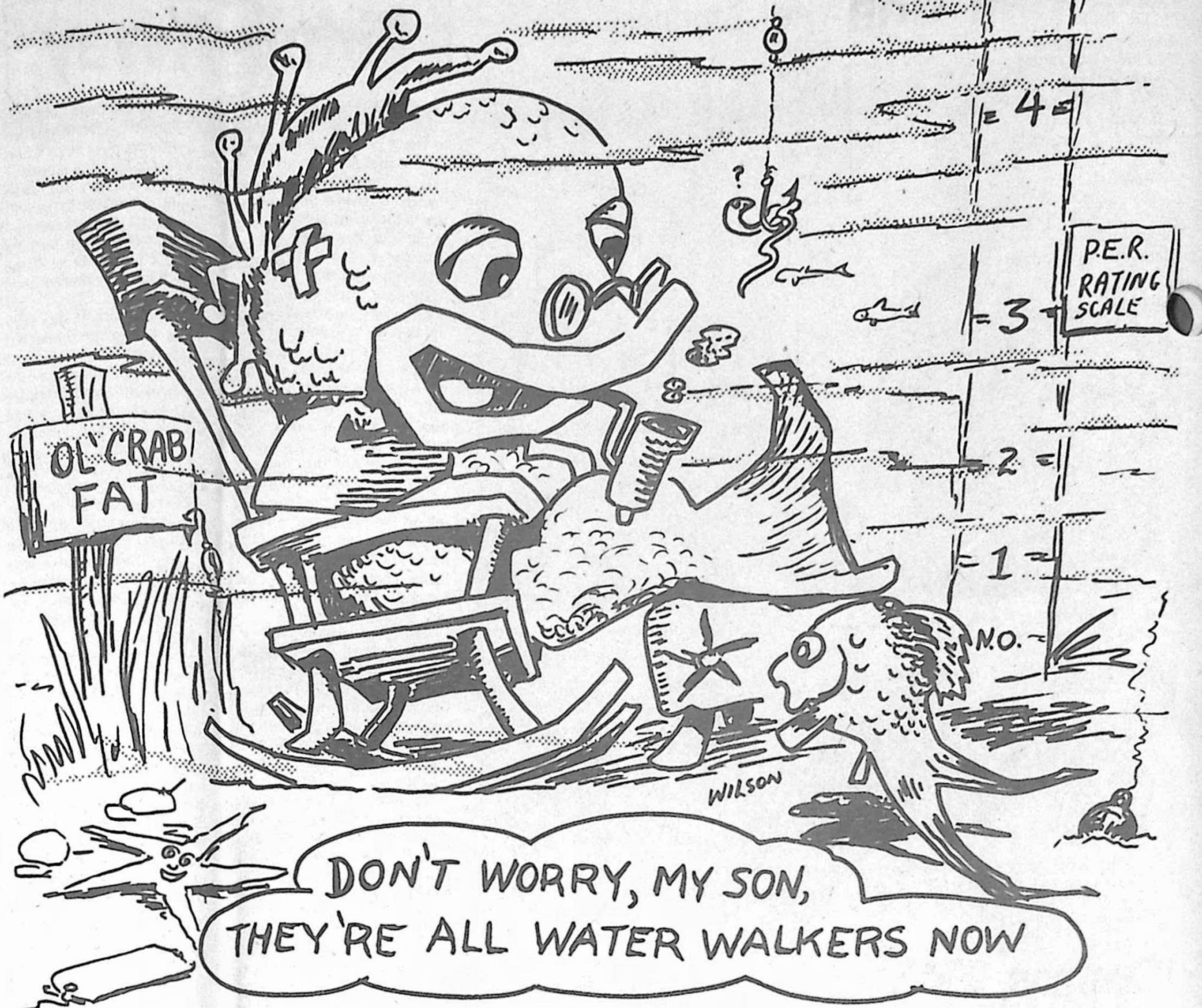
Western Europe's leaders are well aware of these needs but up to now have been squeamish about placing the facts of Europe's defence predicament squarely before their voters.

Most of the NATO governments in Europe are weak coalitions clinging to power with razor-thin majorities.

But the new European media expose of NATO's weakness, compared to the awesome and growing might of the Warsaw Pact, is making it harder for European leaders to keep the issue of their countries' security on the sidelines. The politicians have been pleading for time, saying that only when economic conditions improve (they have no idea when that will be) can their governments begin to think more seriously about defence.

NATO's military leaders, on the other hand, warn that the Western alliance is rapidly running out of time because long-range programs for strengthening NATO armies, navies and air forces must be started soon.

Otherwise, General Alexander M. Haig, NATO's supreme commander, and other alliance military experts insist, the rapidity with which Soviet forces are expanding could well leave NATO hopelessly out-manned, out-gunned and out-flanked by the mid- or late 1980s.



New Provisions For C.F. Lottery

... Only High Numbers Sold

Planning Your Retirement

Can you imagine yourself confined to your home with an unhappy wife, trying to exist on welfare payments which barely cover the cost of food, and be unemployed with no prospects of a job?

That doesn't sound like a very satisfying lifestyle, but it could be yours in your retirement years - if you don't plan now.

Alternately, when you are no longer actively employed, you could find yourself with the time, money, and inclination to enjoy life, catch up on some of those things you've always wanted to do, and continue to lead a satisfying life through your retirement years.

Assuming you're not atrociously and independently wealthy, the factor which can make the difference between these alternatives is a little planning. Some time spent now thinking about how you are going to live later will repay itself many times over.

The avoidable problems most people face in retirement can be classified as either psychological or economic. We aren't going to discuss the psychological aspects other than to say that they deserve consideration, and some of the comments on economic planning will also apply to those aspects.

Ideally, you should begin planning the economics of retirement in your early thirties and be fully committed and acting on a well-thought-out plan by your early forties. If you leave it much later there may not be time to lay away a large enough nest egg without lowering your current consumption to the austerity level. Having a plan that you follow doesn't mean the plan is inflexible - as you or circumstances change the plan should be adapted to fit. The first step in any plan should be to determine where

you are and where you want to be. You will need to analyse your present financial position and project your cash flow from the present to the time you expect to retire.

You will also have to attempt to determine your needs during retirement. You should consider such things as your spending habits, whether you expect to live in an apartment or a house, and how much of a reserve you will need for rainy days.

Most of these considerations require a determination of personal values and this means planning should be a family affair.

If you think you'll be satisfied in a studio apartment eating plain food and watching television, you'll be asking for conflict with a spouse who wants to spend the time travelling.

Another thing you'll have to allow for when doing your calculations is inflation. If inflation averages six per cent for the next 20 years, by then the dollar will buy about 30 cents worth of goods and services. If you've worked out everything in today's dollars you could end up a little on the short side.

Next to consider is the sources of income you will have in retirement. Don't forget that most of your income will be subject to tax, and it's after tax cash you'll need to spend.

Most people will qualify for government pensions. Company pension plans should also be included in the calculations but you'll usually have to do considerable guess work to determine what you might be entitled to. Remember that many plans pay out very little if you leave the company early.

The shortfall between your pension income and living expenses in retirement is what you will have to provide

for yourself. The earlier you start, the better chance you'll have of meeting your objectives.

Some of the shortfall may be made up by income on investments you already own or the invested proceeds from the sale of the family home. The balance will have to be made up by income from the savings you can generate between now and retirement.

Probably the first savings vehicle you should consider is a Registered Retirement Savings Plan. These plans allow you to invest with pre-tax dollars and effectively get the benefit of an interest-free loan from the government.

The amount that you can invest in these plans is limited to a maximum of 20 per cent of your "earned income" and \$5,500.

However, if you are or may be entitled to benefits from a Registered Pension Plan by virtue of your employment in the year, the limitation is reduced to \$3,500 less any contributions you have made to the Registered Pension Plan in the year.

In spite of these contribution limits, a Registered Retirement Savings Plan is a very useful savings vehicle. If you require more capital than can be accumulated in a Registered Retirement Savings Plan, the balance of your savings can be invested in anything from Canada Savings Bonds to real estate - depending on the time you can devote to managing the investment, your level of financial sophistication, and the amount of risk you are willing to take.

Generally, you will want to err on the conservative side and accept a lower rate of return for a "safe" investment - you don't want to lose your retirement fund playing the penny mines.

Dear Sir,

It is hoped that a detective story without murder, fraud or other crime may be sufficiently novel as to win space in your paper.

There is such a story of a Canadian Army unit that served throughout Europe WW2. This unit, the 65 TANK TRANSPORT COY. RCASC was disbanded in Holland in 1945. Ex-members departed for civil street in every part of Canada and contact between individuals was lost.

Twenty eight years later, two former members met in Flin Flon, Man. and speculated on what had happened to their wartime friends. It was decided to try for some answers. It should be noted that a 28-year-old trail is a cold trail and difficult to follow. The first answer was a shock, a man remembered as a happy joking youth and unit favorite was found dying in an Edmonton hospital. A notice in the Legion Magazine produced eight replies, all from the area between Sydney, N.S. and Powell River, B.C. (a truly generous hunting preserve). The search became a chain reaction as the members when found joined in the endeavour. After some progress had been made, the undertaking was organized by province with exchange of information. Leads were dredged up from memory, unit daily orders (source Ottawa Records), from old address books, phone books, old photos, etc.

Four and a half years of detective work has located 210 living ex-members and about 35 deceased out of a possible of about 700. The search continues.

Will anyone reading this, please check with your WW2 army acquaintances, if a 65th man be found, please advise him of a company reunion to

be held at North Bay, Ontario, July 7-8-9, 1978. For reunion details and other important information, he should contact Maurice Rainsforth, P.O. Box 1071, Stirling, Ontario, 613-395-3052 (or the writer).

Mr. Editor please accept the thanks of the men of the 65th for this valuable space in your paper.

Sincerely

L.L. Purdy

P.O. Box 145
Waterloo, P.Q. J0E 2N0

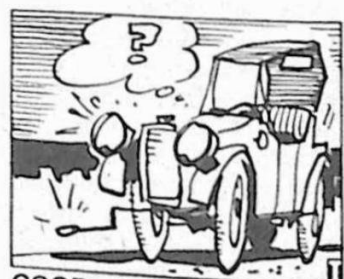
P.S.: Mr. Editor, please feel free to edit this letter to conform to the dictates of space or other consideration. It is hoped that the basic message, 65th men contact Rainsforth, will not be lost. Only generous newspaper assistance will be effective in uniting another 200 or 250 men with their comrades. Thanking you again.

L.L. Purdy

Dear Sir:

A reunion of all ex-officers, civilian instructors and cadets of No. 531 "City of Trail" Squadron, Royal Canadian Air Cadets, will be held in Trail, B.C., on the long weekend, August 6th, 1978. The reunion will include a banquet and dance. All ex-members are asked to contact the Reunion Secretary:

Dan Ryan
11365-136A St.,
Surrey, B.C. V3R 3C4



GOOD OLD DAYS? - You used to have to start a car by cranking it; today you turn a key.

A Child's Plea

Give me more than food to nourish me. Give me the warmth and the security of your love.

Let me enjoy all five senses. Give me plenty of things to look at, to feel, to smell, to listen to, to taste. And even some things to break.

Teach me to take turns. Watch me play so you can see how I am trying to work out my problems and what I am up against.

When you tell me to do something, please tell me why I should do it. Let me feel that

I am a contributing member of the family. And be sure to include me in making the family plans when you can.

Please don't keep me your baby when I want to feel grown up. Don't transfer your fears to me. I have enough of my own to cope with and I don't need any more.

Help me not to act when I am angry. But don't make me so afraid of showing anger that I lose my capacity to feel strongly about anything.

Let me learn bit by bit to bear pain, to want things but to be strong enough to post-

pone gratification of certain feelings I am not yet ready to experience.

Let me try out my new powers as my body develops - to creep, to stand, to walk, climb, jump and run when I am ready. Don't limit the natural needs of my body because you have some unresolved hang-ups.

Give me a little corner in the house that is all mine and nobody else's. I need moments of peace and quiet that cannot be invaded by anyone.

Give me my share of con-

sideration and attention. I must know every day, even if for just a few moments, that I am the only one you are thinking about and loving.

Let me ask any question that pops into my head. Don't make me ashamed for having asked it, even if it seems stupid. And give me as honest an answer as you can. If you don't know the answer, please say so. It's good training to hear someone say, "I don't know, but I will try to find out for you."

Be patient with me when I don't do things very well at

... To His Parents

first. Remember I have so many things to learn and almost everything takes some practice.

Let me bear the consequences for whatever I do. I need to be punished as well as rewarded. And when you punish me make sure the punishment fits the "crime." Above all, grant me, without reservation, your debt to me - unconditional love. For if I know it is there, I will be able to give the same to my children - and they will be able to give it to their children.

CNA TOTEM TIMES

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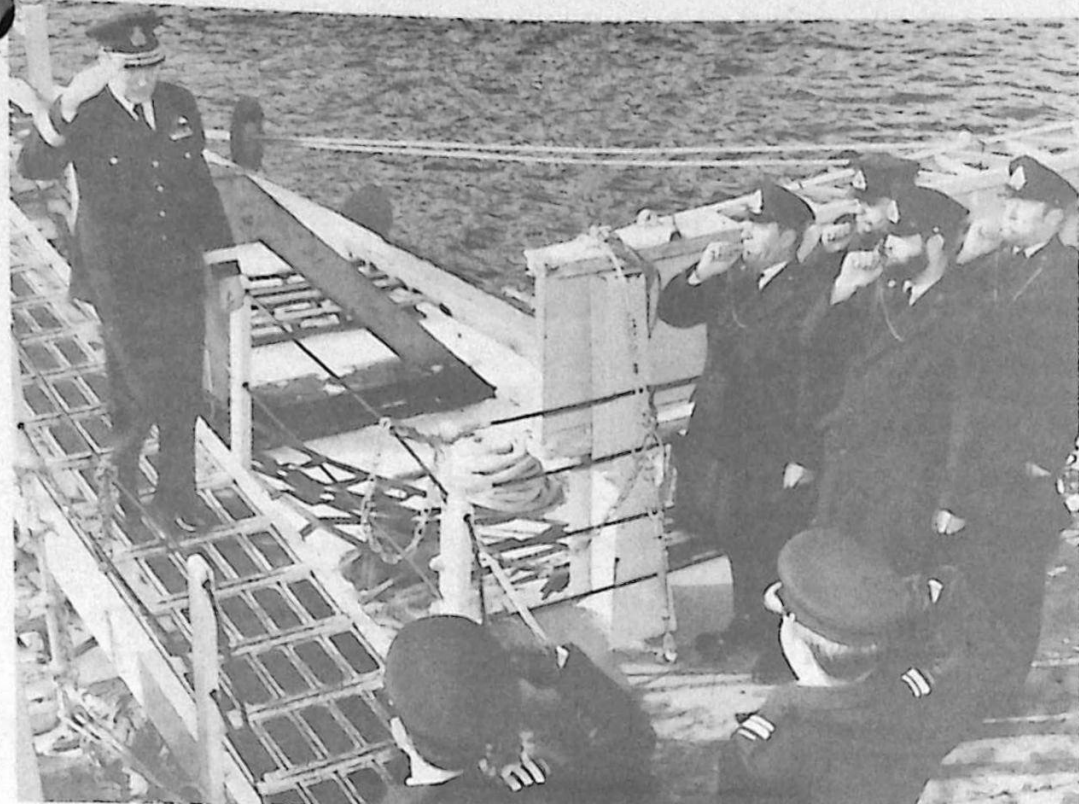
CDS Visits Maritime Command

CDS VISITS MARITIME COMMAND — Admiral Robert H. Falls, Canada's Chief of the Defence Staff and first serving Admiral, visited Maritime Command units based at Halifax February 1-3. Arriving at Command Headquarters, Admiral Falls was welcomed by Vice-Admiral A.L. Collier, Commander Maritime Command and by Rear Admiral M.A.

Martin, Commander Maritime Forces Pacific. After inspecting a fifty-man guard of honor provided by the Fleet School, CFB Halifax and the Stadacona Band.

Admiral Falls received briefings on Maritime Command operations and toured dockyard and ship facilities including the Fleet School and the Combined

Support Division at Dartmouth. Later he took part in ceremonial divisions, visited several messes, and found time to visit the Maritime Command Museum. At the end of his two day inspection, the CDS declared himself well satisfied with the professionalism and dedication exhibited by all ranks in Maritime Command.



A Nautical Occasion — Admiral Robert H. Falls, Canada's Chief of the Defence Staff is piped aboard HMCS Algonquin during his visit to Maritime Command at Halifax. HMCS Algonquin is one of four DDH 280 helicopter destroyers based at Halifax.

C.F. Photo

Italian Medal For CFE

OTTAWA — Canadian Forces Europe (CFE) was presented the Italian Medal for Civil Valor at a recent ceremony in Lahm, Germany. Major-General Charles H. Belzile, commander of CFE, accepted the award from the Italian Minister of the Interior, Francesco Cossiga.

The medal recognizes the contribution made by CFE to relief operations following the May 1976 earthquake in the Friuli region of north east Italy. The same medal was presented earlier, posthumously, to Captain Ronald McBride, a Canadian Forces helicopter pilot killed during the operation.

As many as 350 Canadian military combat engineers and medical specialists from CFE assisted in relief operations code-named

"Operation Dolomite". Since many units in CFE were involved, the medal was awarded to the force as a whole.

Two German army engineer units also were awarded the medal for their participation.

The Gold Medal for Civil Valor was established in 1793 by Victor Amedeus II to reward acts of bravery by junior officers and soldiers. At that time recipients also received double pay.

Following the Second World War, the Royal Emblem was replaced by the Emblem of the Republic, although all other aspects of the medal have remained unchanged since its inception.

The medal is displayed in the trophy case at CFE headquarters.

Esquimalt Top Fire Eater

OTTAWA — Canadian Forces Base Esquimalt, B.C., is the Grand Award winner in the Class "A" military category of the 1977 Fire Prevention Canada Association's annual competition.

Second in the 61-entry field is CFB Petawawa, Ont., with CFB Borden, Ont., in third spot. Honorable mentions go to CFBs Greenwood N.S., Cold Lake, Alta., Gagetown, N.B., and Edmonton, Alta.

The competition recognizes positive efforts in the field of fire prevention, stimulates fire safety and encourages greater public and private fire prevention efforts.

CFB North Bay, Ont., placed first in Class "B", followed by CFB Cornwallis,

N.S., and CFB Europe, Baden-Soellingen detachment.

In Class "C", CFBs St. Jean, Que., Halifax, Debert detachment, and Penhold, Alta., ran first, second and third with CFB Suffield, Alta., getting an honorable mention. CFBs Yorkton, Sask., Gypsumville, Man., and Lac St. Denis, Que., captured first, second and third spots in Class "D" with CFBs Mill Cove, N.S., and Falconbridge, Ont., being honorably mentioned.

Class "E" winners are CFB London, Ont., CFB Masset, B.C., and CFB Moncton, N.B., while first place in Class "F" belongs to HMCS Huron with HMCS Assiniboine getting an honorable mention.

DND Conservation

OTTAWA — The Department of National Defence is continuing the battle of the energy crisis. And it's winning, too.

DND's 175,000 people — the military, dependents and civilian employees — will observe Energy Conservation Week again this year, from February 13 through 17.

It's part of DND's program which has reduced the military's liquid fuel consumption by 70 million gallons, and natural gas by more than three billion cubic feet.

Across the country and at overseas bases, Command conservation officers are selecting projects from energy conservation studies done by the Department of Energy, Mines and Resources.

CFB Greenwood, N.S. is credited with initiating the military's annual conservation week. During February, 1976, everybody on the base, including school children, participated in a conservation effort which resulted in significant energy savings.

National Defence headquarters' contribution to energy saving began in 1976 when one of every four fluorescent lights was removed from the 20-storey twin-towered building.

To date the 25 per cent reduction has conserved 25 million kilowatt hours of electrical power a year, saving taxpayers \$60,000 initially (30,000 fluorescent tubes at \$2 each), and an additional \$10 million saving is expected during the 1978-79 fiscal year.

DND consumes 68 per cent of all energy expended by the federal government, or 1.3 per cent of national consumption.



The painting of the Mona Lisa, which Leonardo da Vinci worked on for four years, was never finished.

Femme Gen

FEMME GEN
BY LIZ GRAHAM

My cousin Evelyn dropped in for one of her visits the other day. She is in the midst of having her house completely redecorated, so the main topic of conversation that day was about 'style' and 'good taste'. She told me that decorating a home is a challenge and very educational, and that I should try it sometime. She says she knows that my side of the family never did have much taste when it came to interior decorating, and that I have obviously inherited that deficiency, but that she is sure I can — with her guidance — overcome this handicap.

Although she says she is an expert on interior decorating, she has hired a very expensive French interior decorator to do her house. She says that he has been in business for over thirty years, and comes very highly recommended, but that it is quite obvious to her that he still has room for improvement, so she is kept very busy giving him the benefit of her advice, which, she tells him, will be useful in his

business. She did say that he has an absolutely uncanny ability for choosing colors that reflect the character of individuals, and that at the end of their very first meeting he told her that with her natural flair for interior decorating, and her business acumen, she was a perfect 'puce' and asked if she thought it would be all right to use that color as the dominant theme throughout the house so that it would reflect her true character. She was delighted.

She is also buying a lot of new furniture in the artificial 'distressed wood' style. I did offer her some of my natural distressed wood stuff, but she pointed out that it was quite obvious that I didn't know that every piece of furniture has to be chosen very carefully, in order to blend in with the 'whole', and must be able to tell a tale about the inhabitants of the home. She suggested that I accompany her on some of her shopping excursions because she's sure, that even at my advanced age (I was born 11 days, 25 minutes, and 6.2 seconds before her) it's not too late for me to learn how to

furnish a home properly.

By the time she left, I was beginning to think that for once she was right, that I did not have a flair for decorating, because to be truthful, I hardly knew what she was talking about the whole time. But after looking at my furniture, I realized that even if I did have a flair for style, and chose my furniture carefully, after all my C.A.F. moves, it would only eventually end up reflecting an 'Early Canadian Moving Van' character, and as for having every piece telling a tale about the inhabitants, mine can sure tell some tales about my battles with moving companies over their policy of accidentally refinishing everything in a natural distressed wood style.

I don't know if my color scheme reflects my character or not, but I do suspect that Evelyn's 'puce' really reflects the true character of her French interior decorator, who appears to have quite a sense of humour. Don't tell Evelyn, but the word 'puce' is of French origin, which literally translated means ... FLEA!

A Place Called Moisie

CFS Moisie has reached its quarter century mark. In honor of the occasion it is intended to publish a souvenir book outlining facts and recollections from 1953 to the present. In order to accomplish this we need the help of contributors.

Of particular interest (and remoteness) are the early

years when families come in by boat. Pictures of the Times and recollections of both the servicemen and the wives would be most appreciated.

Similar recollections of the middle and later years are also required. What was it like then? What are your favorite recollections?

All pictures will be

processed and returned to the contributor as soon as possible. Please ensure that each contribution is clearly identified with your name and address.

In order to meet our deadline, it would be appreciated if you could contact CFS Moisie, Attention CGEO by 17 March 1978.

Cosmos 954

Continued From Page 1

29 and 30 Jan 78

Two CP 107 Argus aircraft, one equipped for aerial photography, were added to the search. RCMP personnel were guarding the debris on McLeod Bay and Canadian Forces personnel were guarding the debris near Warden's Grove.

31 Jan 78

The search was now concentrated in the McLeod Bay and Fort Reliance areas with a total of 15 aircraft (14 Canadian) involved. The radiation monitoring kits, three from the U.S. and one from the Canadian Department of Energy, Mines and Resources, were all in use in the Argus and Hercules aircraft. The debris from McLeod Bay was taken to Yellowknife for analysis while scraping from the debris on the Thelon River were taken to Edmonton in special containers for analysis by the Atomic Energy Control Board. Two RCMP constables joined the four Canadian Forces personnel at Warden's Grove.

1 Feb 78

By 1 Feb a number of radiation hot spots had been detected by air and then isolated by ground parties in the McLeod Bay area. Operations continued in removing the debris to Yellowknife and cleaning up each impact area to a radiation level of less than 100 micro rads per hour.

2 and 3 Feb 78

By 2 Feb it seemed apparent that most of the satellite debris had impacted in the McLeod Bay and Warden's Grove areas with a few impacts between the two and between Warden's Grove and Baker Lake. Only one piece of debris contained enough radioactivity to require very special handling techniques. For this piece a lead container was constructed by the University of Alberta and flown to the site. Air searching continued along the debris track, with impact areas being marked

by ground parties.

4 and 5 Feb 78

Over the weekend preparations were made to establish a base camp at Warden's Grove and air search activity increased. New impact areas were isolated in both the McLeod Bay and Warden's Grove areas. The highly radioactive piece of debris on the McLeod Bay ice was removed to Edmonton in the special lead container. Clean up activity of other impact areas continued.

By the end of the weekend, some 250 Canadian Forces personnel and about 115 U.S. personnel were directly involved in the operation. Aircraft had flown over 700 hours in the search to this point.

6 Feb 78

No searching or localizing activity was carried out but preparations continued with establishing a base camp near Warden's Grove so that recovery and clean-up activity could commence in that area. A Hercules positioned a bulldozer and other supplies in the area using the low altitude parachute extraction system. The bulldozer is being used to construct a landing strip.

7 Feb 78

By 7 Feb 78, 24 personnel were at the base camp (now referred to as Cosmos Lake) near Warden's Grove preparing the camp and airstrip. The U.S. Convair aircraft had returned to the U.S.A. and the Argus aircraft were also released from the search operation.

Activity will be concentrated in the Fort Reliance-McLeod Bay area to search for and recover any remaining debris with aircraft and personnel working out of Yellowknife. Following this stage, activity will be concentrated in the Warden's Grove area using the new Cosmos Lake camp as a base of operations.

8 and 9 Feb 78

Activity continued on both days in preparing the Cosmos Lake landing strip and establishing a main campsite, Camp Garland, a few hundred metres to the south of Cosmos Lake. Hercules aircraft positioned more fuel, supplies, and another bulldozer, again using the low altitude parachute extraction system.

A Hercules aircraft also located six new radiation hot spots in the area northeast of Fort Reliance.

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This is how it works.

Businesses:

If your business has been in operation for at least a year, the Ministry of Labour may help you pay the wages of up to five young persons this summer. We will pay between \$1.30 and \$2.00 an hour as our share of the cost.

Farms:

The same rules apply, you create jobs for youth and the Ministry of Labour will share the cost with you.

Societies:

You are invited to apply for funding to hire young persons to work this summer on a worthwhile project. We will pay an average of \$3.40 an hour. We will also provide funds for holiday pay, employee benefits and essential project costs.

PLEASE NOTE: All applications will be considered, but funding cannot be guaranteed.

Applications **MUST** be received by March 24, 1978. Applications for funding are available from any Provincial Government Agent or Ministry of Labour Office, or any of the B.C. Youth Employment offices listed below.

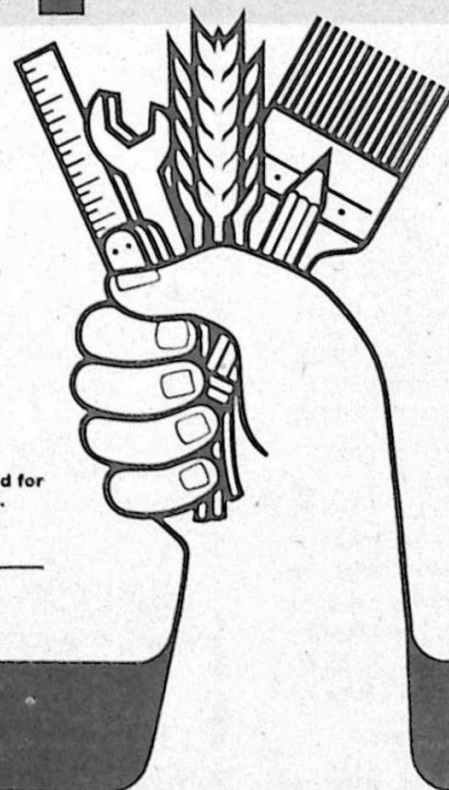
Abbotsford — Unit 5, 33575 Mayfair Avenue, V2S 1P6
Courtenay — 576 England Avenue, V9N 5M7
Cranbrook — No. 5, 14th Avenue, S. Cedar Centre, V1C 2W9
Dawson Creek — 2nd Floor, 1005 - 104th Avenue, V1G 2H9
Kelowna — Suite 220, 548 St. Paul Street, V2C 5T1 374-0078
Kamloops — 1440 St. Paul Street, V1Y 2E4 763-9241
Lower Mainland/Burnaby — 4240 Manor Street, V5G 1B2 437-8441
Nanaimo — Lower Floor, 66 Front Street, V9R 5H7
Nelson — 601 Front Street, V1L 4B6
Penticton — 2nd Floor, 301 Main Street, V2A 5B8 432-7247
Prince George — 1663 Victoria Street, V2L 2L4 562-8131 (Local 265)
Smithers — 2nd Floor, Federal Bldg., V8G 1P8
Terrace — 2nd Floor, 4548 Lakeside Avenue, V8G 1P8
Vernon — Suite 204 - 2901 - 32nd Street, V1T 5M2 542-1397
Victoria — 2nd Floor, 1250 Quadra Street, V8W 2K7 382-5151
Williams Lake — Suite 6, 123 Borden Street, V2G 1R1

For offices listed above without telephone numbers and for all other areas, call Operator for Zenith 2210 (toll free).



Province of
British Columbia

Ministry of Labour
Employment Opportunity Programs



Sports Beat Comox



Base photo

Chilliwack Pac Region Champs

BASE COMMANDER COL. BURGESS presents the trophy to a rep of CFB Chilliwack, winner of the recent PAC Region Hockey Championships held

here at CFB Comox. Our boys put up a good show but were outclassed.

(See "Up Earl's Alley")

ATC

hockey west 78

The CFB Comox ATC Hockey team has just returned from an Air Traffic Control Hockey tournament in Vancouver. This tournament was held from the 6th Feb. to 10th Feb. '78. Participants in the tournament were, Winnipeg MOT, Edmonton MOT, Calgary MOT, Vancouver MOT (two teams), Anchorage, a group from Regina MOT with participants from Saskatoon and CFB Moose Jaw, and the CFB Comox entry.

The teams were divided into two divisions, by draw, for the competition. CFB Comox ended up in group 'A' with Calgary, Vancouver 'A', Winnipeg. After the first game with Winnipeg, we realized we were in the wrong group! The level of competition was unexpected.

As most of the participants in Intersection hockey know, the Comox ATC team has been doing quite well this year. Actually we have been doing too well according to some, and at this time I would like to thank them for not complaining too much, as we had to play as a team including our 'A' quality players, to practice for this tournament.

The practice was not enough. We suddenly found ourselves playing against base team calibre teams, and all we could do was try to make the losses less than outright routs.

In support of our players, we should have been in the other division with teams more our calibre. The tournament organizers have noted this and next year's competition will be organized accordingly.

Winnipeg won the championship this year with the Edmonton team finishing second, and the Saskatchewan group third.

Our goaltender Terry Wallace, was awarded the team MVP award and it was well deserved. In our 4-2 loss to the Vancouver 'A' team, Terry stopped 57 shots compared to our 9 on the other goaltender. He stopped a total of 178 shots in the four games, and the opposition allowed us only 98 shots, the majority in

the last game which we won 10-2 with 55 shots for the 30 against.

The final banquet and awards presentation was quite an affair with the Hon. Jack Davis as our guest speaker. As mentioned earlier, Lt. Terry Wallace was awarded the MVP medal for our team, and M-Cpl Wright and his father, a Calgary MOT team player, were singled out as the only father and son competitors.

Both of these people spent most of the competition suffering from the flu, which was passed to a number of the

competition in hopes that it would provide an edge. The benefit to all present was the good fellowship of this tournament, which strengthened the lines of communication and cooperation, an important asset in Air Traffic Control.

It is hoped that this will continue to be an annual competition and that our Comox team will again participate.

In conclusion, we at ATC Comox would like to thank those people that helped us to participate this year, and that includes from the Base Commander on down, as

almost all sections were involved.

The Base Recreation staff were instrumental in providing equipment and making sure we had all the right forms filled in. Base Transport helped immensely, the Squadrons were involved with their understanding that we would have to be short staffed with the number of people gone to Vancouver, and last but not least, all those people that we play against each week that did not complain loudly about the calibre of some of our players.

Thank you for the competition and practice, without it we would have finished last.

In closing we would like to thank Nate Lear, Wayne Cudmore, Rick McAree, and John Blanchard for their support on our team.

Footnote - Wayne Wright fell short of his boasted 15 goals and Brian Puttock, although puckered up as promised when the team returned, had to leave the headquarters parking lot disappointed.



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Commonwealth Games Update

Edmonton - "They shall be merrier and less stern, and will substitute the stimulus of a novel adventure for the pressure of international competition."

So said Canadian M.M. (Bobby) Robinson when he proposed the Commonwealth Games concept to amateur sports leaders of the Empire at the 1928 Olympics in Amsterdam.

And so these Games became known as the "Friendly Games" with the emphasis, unlike the Olympic Games, on individual competition - man against man, woman against woman, rather than nation versus nation.

But it wasn't until 1930 and Bobby Robinson's First British Empire Games in Hamilton, Ont. that the Commonwealth Games movement had its true beginning.

This was a set of World Games which were practically free of international rivalry, politics or spiralling costs and a confusing proliferation of events. Participation was limited to nations with "membership in good standing" in the Empire, and competition was limited to non-team individual competitions in only nine different sports.

Today the Commonwealth Family has grown to 48 participating nations and affiliates. Athletes will arrive in Edmonton for the Games 3-12 August happily and without rancor just as they did in Hamilton (1930); London, England (1934); Sydney, Australia (1938); Auckland, New Zealand, (1950); Vancouver (1954); Cardiff, Wales (1958); Perth Australia (1962); Kingston, Jamaica (1966); Edinburgh, Scotland (1970); and Christchurch, New Zealand (1974).

TEN SPORTS

The Games have really not changed much since 1930. However, there is one change for 1978. Canada was asked to consider a tenth event and chose Gymnastics - because of its increasing popularity and because it's a sport that

can be continued by devotees through much of a lifetime.

Ten amateur sports which will be presented in Edmonton are: athletics, badminton, boxing, cycling, gymnastics, lawn bowls, shooting, swimming and diving, weightlifting and wrestling.

And, for the interest and entertainment of the visiting nations, Canada has chosen Lacrosse, the game of its original people, as a demonstration sport.

Following is a list of Commonwealth countries which have been invited to this year's Games: Australia, Bahamas, Bangladesh, Barbados, Botswana, Britain, Canada, Cyprus, Fiji, The Gambia, Ghana, Grenada, Guyana, India, Jamaica, Kenya, Lesotho, Malawi, Malaysia, Malta, Mauritius, New Zealand, Nigeria, Papua New Guinea, Seychelles, Sierra Leone, Singapore, Sri Lanka, Swaziland, Tanzania, Tonga, Trinidad and Tobago, Uganda, Western Samoa, Zambia, Special Member: Nauru.

jock talk at CFB Comox

Fighting Milfoil

The Ministry of the Environment's struggle to control Eurasian water milfoil, the weed now infesting the Okanagan lakes, has been given a significant boost with the development of a new technique to distinguish between the various species to milfoil.

The identification process involves a method of separating plant pigments (through a technique known as 2-dimensional thin-layer chromatograph) to find the unique pattern of each species, like taking a finger-print of the plant.

Until recently, weed control has been hampered by the difficulty in distinguishing the noxious Eurasian milfoil from several similar native species. The difficulty stems from the fact that the plants (along with many other aquatic plants) can take on a different appearance depending on their growing conditions.

Although experienced field workers were often able to tell one species from another, there was sometimes confusion, particularly with immature plants. The problem was even more acute among staff surveying the province attempting to stay ahead of new introductions of Eurasian milfoil and prevent it from becoming established.

The identification process was applied to milfoil by Mrs. Oldriska Ceska of the University of Victoria Biology Department, who had been using similar techniques to study corn genetics. She worked with many samples of the six different species of milfoil found in B.C. and found unique pigment patterns for each.

The work will be continued and refined for one more field season and the results will be published in a scientific journal when complete, according to Ministry botanist Dr. Pat Warrington.

"The interim results are of sufficient importance to the control of milfoil in the province that they are being released at this time," he said.



Base photo

200 Mile Walk

PTE. MARILYN BELL of 442 Sqn. is congratulated on receiving her scroll from the B.C. Fitness and Amateur Sports Fund for completing a 200 mile walk.

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More Sports

hockey to skeets

Open Marathon

There will be an open marathon at Belleville, Ont. 30 Sept. '78. All interested personnel please contact the Rec Centre at Loc 315 for further information.

Servicewomen's Basketball

Servicewomen's Basketball will commence practices on the 3 March '78. All interested females are welcome.

Skeet Championships

The Pacific Region Skeet Championships will be held in conjunction with the Prairie Region Championships at CFB Edmonton on the 26-28 May '78. All personnel interested in this competition please contact Sgt. Molloy at Loc. 315.

Intersection Broomball

The intersection broomball teams are now back into full swing after a short lay off due to the Pacific Regional Broomball Championships, which were recently held at this Base. A team of fifteen players which were picked from the four Intersection Teams successfully won the championship for the sixth straight year.

Congratulations are also in order to the same team, who attended and won all games at the Gordie Love Invitational Tournament, which was held at C.F.B. Edmonton from January 13th to 15th. A special thanks to Jack "Shaky" Dupont who kept the guys out of the bars, and along with Bob "Seive" Arseneau who enabled the team to win with their excellent goal tending. Sorry "Chicken" George guess you'll have to wait until you get transferred before you can get an M.V.P. Award. Good work guys, best of luck in future games!!

There are just twelve games left, before starting the intersection playoffs. Come on guys let's get out and play for your team, as you know all teams are in the playoffs and anyone can win!!

Skeet News

The Cumberland Skeet Team managed a three target win on 12 Feb. at Qualicum. The Qualicum Club set the pace leading by seven birds in the first round. The team pressed sincere thanks for the hospitality, a thoroughly enjoyable day.

Chuck Cronmiller has set the pace with a red hot shooting iron leading the club averages for the past month, over 200 targets. Tom Thomson is back in practice

and definitely showing his good form.

On the 19 Feb., 31 rounds of skeet were shot with a good turn out for the monthly average shoot.

We had a visitor from Lloydminster, Sask. Gun Club, Mr. Lamont Cettumlini who showed his quick style. Remember next time you come to the range, bring a guest shooter. Remember the club is open every Sunday. Here are the club averages.

	Tgts.	Shot	Tgts.	Broken	Average
D. Molloy	12 ga.	250	230	23	
	20 ga.	150	135	22.5	
	28 ga.	25	23	23	
Chuck Cronmiller	410 ga.	75	63	21	
	12 ga.	200	192	24	
	20 ga.	25	24	24	
Ralph Ridley	20 ga.	275	236	21	
	12 ga.	75	55	18.5	
	20 ga.	100	80	20	
Greg Molloy	28 ga.	50	28	14	
	410 ga.	75	53	17.5	
	12 ga.	175	140	20	
Mike Williams	12 ga.	50	48	24	
	28 ga.	50	42	21	
	12 ga.	125	115	23	
Tom Thomson	20 ga.	25	21	21	
	410 ga.	25	9	9	
	12 ga.	200	168	22	
Frank Browne	20 ga.	175	133	19	
	12 ga.	25	22	22	
	20 gam.	25	19	19	
Jim Gage	410 ga.	25	21	21	
	12 ga.	100	92	23	
	20 ga.	25	19	19	
Wayne Cross	410 ga.	25	9	9	
	12 ga.	200	168	22	
	20 ga.	175	133	19	
Dave Gagne	12 ga.	25	22	22	
	20 ga.	25	19	19	
	410 ga.	25	21	21	
Ed Eng.	12 ga.	100	92	23	
	20 ga.	25	19	19	
	410 ga.	25	21	21	
M. Primely	12 ga.	100	92	23	
	20 ga.	25	19	19	
	410 ga.	25	21	21	



Base photo

Broomball Champs

BACK ROW - Wayne Lyle, Rus Roux, Burt Lawrence, Bob Arseneau, Rex Pitcher, Dave Galloway, Brian Lavigne, Bill Chris, George McNabb, Doug Obermyer, Cliffe Fuller, Ev Lavoie, Jack Dupont (coach). Front Row - Al Ettinger, Ray Trudel, Jack Michaud, John Hooley.

Up Earl's Alley

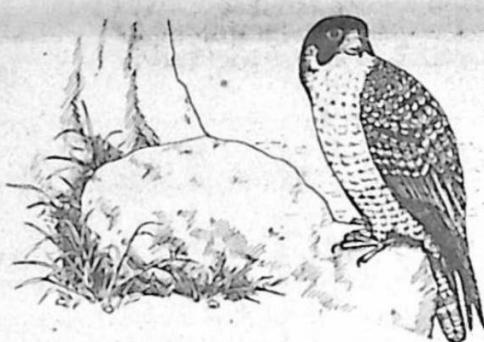
Well the Montreal Canadians are having quite a struggle again this season. As of Tuesday they had gone 27 games without a loss. Twenty two wins and five ties. Lafleur is also closing in on Bryan Trotter of the Islanders and it is only a matter of time before he will be atop the scoring race - again.

pleasure to have them involved.

The golf season is about to get underway again. The membership drive is off to a

slow start but, should pick up with the advent of some sunshine. The membership prices have gone up slightly over last years but still it is a real bargain for the cost.

Marsh World



PEREGRINE FALCON - In many areas of North America, the peregrine falcon has become extinct as a breeding species. It is occasionally still seen on migration, usually around inland or coastal marshes which attract the myriad of shorebirds and other intermediate-sized birds which form its staple diet. It captures its prey in the air by diving from above, often reaching speeds in excess of 150 m.p.h. before striking its quarry. Pesticide poisoning has been documented as the cause of the population decline of this species.



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The smallest ship ever to cross the Atlantic was the April Fool. Only 5 feet 11 inches long, it sailed from Morocco to Florida in 1968 in only 84 days.

On the local scene the Base Softball team will have to find a new pilot (coach) this year. Kip McLean will, due to service commitments, be unable to handle the team this year. It is going to be very difficult for the Base to find a replacement for Kip. He not only is a very knowledgeable fellow, but has a knack of handling personnel very well. As always there are a number of fellows that do a lot of talking about how they would like to coach, but, when approached to do the job, come up with a thousand excuses - we are going to host the CF Nationals here in the fall and it would be great if the Totems could represent the Region in this classic.

The Base hockey team did not fair too well in the Regional Championships held here recently. The interest on the Base is the worst I have ever experienced. It seems that the personnel have no incentive to play Base team hockey. We are very short of talent and this is probably the major concern right now. Perhaps with the huge geover expected this year we will luck in and pick up a few players. The only way we can regain our prestige in hockey is to once again enter into the local Intermediate League in order that the team could be better prepared for these tournaments.

I would like to thank all the lads that did come out, whether they made the team or not, and at least made an effort. Also a special thanks to Capt. Gary Anderson (Manager) and our Trainer, Kip McLean. These two individuals did a heck of a job and it certainly was a

Cross Country Skiing

Cross Country skiing is one of the most popular outdoor winter sports in Canada, and this winter's heavy snow has delighted skiers and encouraged many others to join. But beginners and even some experienced skiers don't know, or don't apply, some basic safety precautions to make sure that fun doesn't become tragedy.

The Canada Safety Council

strongly recommends that anyone wishing to take up cross country skiing join a club where expert knowledge of the sport and the countryside is available.

Cross Country skiing should be done during daylight hours and always in company. A lone skier is more exposed to hazards. The route should follow recognized trails and

skiers should carry a map and a compass and learn to use them. A good safety practice is to advise others at home of the intended route and estimated departure and arrival times.

The ability of everyone in the group should be taken into consideration when choosing the terrain and setting the distance to cover.

EW
Courtney

Adults \$2.50 O.A.P. \$1.00 Child. \$1.00

Mon. to Thurs. - 8:15 p.m.
Two Shows Fri. & Sat. - 7 & 9 p.m.
No Matinee this Saturday

Thurs., Fri., Sat., Mon., Tues., Wed.,
February 23, 24, 25, 27, 28, March 1

Sometimes when you reach for a dream
you have to leave something behind.

You Light Up My Life

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"Some sex & suggestive dialogue."

March 2 to 8 "YOU LIGHT UP MY LIFE"
General

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Feb. 24 — DISCO

Feb. 25, 26 — ALLEY CATS

Mar. 3 — DISCO

Mar. 4, 5 — LAZY MORNING,
Vancouver group.

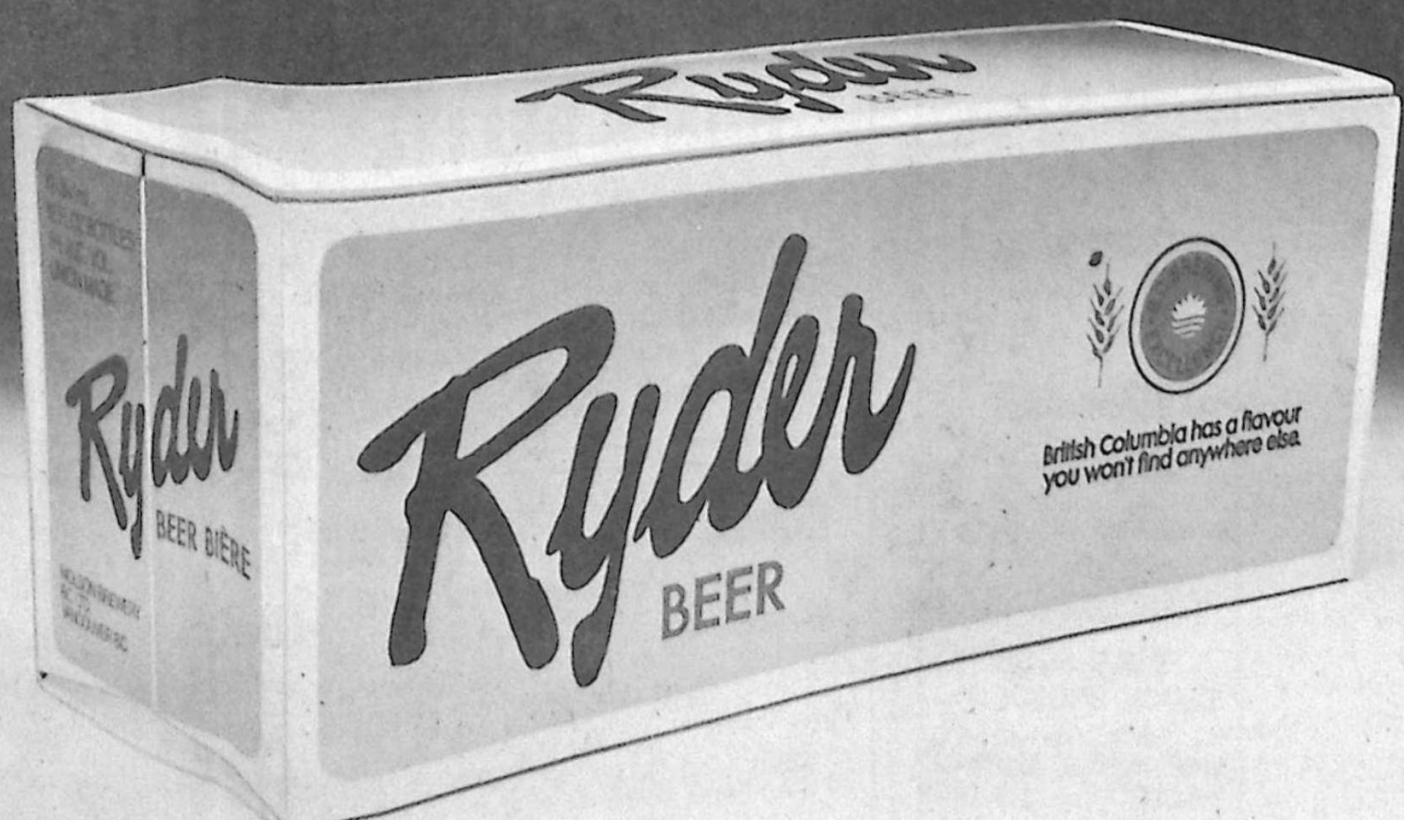
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— 2000 hrs.

- MOVIES -

Feb. 28, DIAMONDS - Robert Shaw (M)

Mar. 7, STREET PEOPLE - Roger Moore (M)

The case for a B.C. beer:



WO's & SGT'S MESS

*Feb. 24 — TGIF

*Feb. 25 — Bingo & Dance,
Merchandise Bingo,
Music by: Long John's DISCO

*March 3 — TGIF, mixed,
commencing at 19:00

*March 10 — TGIF

MOVIES

Feb. 27 — DIAMONDS, Robert Shaw

March 6 — STREET PEOPLE,
Roger Moore

TEEN BASE ORGANIZATION will be holding an open house on Monday, February 27th at 1900 hrs (7:00 pm) in their club house. They would like to invite all the adults of Wallace Gardens to come down and have a cup of coffee with them. They generally have a chat with their members. For those of you who are not aware of the exact location of the BTO - it's in the lean-to portion of the Theatre. **PLEASE COME OUT AND MEET THE MEMBERS OF OUR BTO.**

This week is Baden Powell week and the Scouts, Guides, Cubs, Brownies and Beavers have been busy with their Bazaar, being presented with their religion-in-life emblems, wearing their uniforms to school, etc. We would like to thank all of you who supported these events. Certainly a thanks to LCol SE Burrows for

being at the Protestant Chapel last Sunday to hand out the emblems. Congratulations to all the boys and girls who received their emblems and to the two Boy Scouts who received their second order emblems.

Last week was, of course, **ENERGY CONSERVATION WEEK**, but just because the official observation ended last weekend is no reason for us to forget energy conservation. It is indeed a good time for us all to practise turning off unwanted lighting and turning down thermostats. We will see only too vividly what this program means when we have to start paying our own utility bills. So get into the swing of things now - if you don't need it - turn it down or better still turn it off.

Please note that the open meeting has been changed to Wednesday, MARCH 1st - 8:00 PM AT THE SCHOOL

PMQ Preamble

AUDITORIUM. It will be a good chance for you to meet your councillors plus the invited guests that will be there.

So your new smoke detector is too sensitive and you're getting just a little tired of listening to the thing. Well, the CE section does have replacement sensing units which they will use to replace the one already installed. Phone local 234 if you are one of the people still having trouble with your unit.

Our Miss WALLACE GARDENS, Terrie Hooper didn't win the Valley Snow Festival Queen competition but we are still proud of you Terrie and thanks from all of us for representing your community so very well. To

DON AND JOAN LEBLANC, A VERY SINCERE THANK YOU. I'm sure the last two months has been very hectic for Terrie, her parents and the Leblancs and you can rest assured all of us here in Wallace Gardens are extremely proud of all your efforts.

I hate to do this but maybe you should learn about it here rather than hearing by rumour. There will be an approximate fourteen (14) per cent increase in our general utilities rate. This rate increase will remain in effect until the meters are installed sometime in the early autumn. This rate increase will go into effect on 1 Apr. 78. So that you don't get too alarmed let me give you an example of just how much this

increase will mean to you. A Warrant Officer occupying a three bedroom duplex pays right now thirty one dollars. Fourteen per cent will mean that he will pay approximately thirty-five dollars. I'm certain this will be discussed at the open meeting on March 1st.

Again a reminder that we need coaches for the upcoming baseball season. Call Murray Haines at local 308 if you are at all interested. Murray also has all the dope on Babe Ruth and our own league registration times.

ELECTIONS ARE COMING. Here are some points for you to keep in mind regarding the upcoming Wallace Gardens elections:

The ballots will be distributed by 3 March. Ballots are to be picked up on Thursday, March 9th. If you expect to be away on that evening please call your

councillor and arrange to have the ballot picked up before that time.

Although some residents are not eligible for election the spouses are entitled to serve on council.

Volunteers for council should so indicate on their ballot. It is pointed out that volunteering does not prevent a person from voting for someone else.

Dog Owners

DOGS. Council has reached an agreement with the local dog catcher. It is now up to the base authorities to reach a financial agreement with appropriate town authorities. More information will be passed on to you at the open meeting.

Finally congratulations to our town cop - Dan Major on his promotion to Corporal. Is it true that Rusty Rutherford has volunteered to serve

another term on the PMQ council? And is it true that Bob Horton is returning from the Middle East two months early. No he's not. Sorry, Marg. It is true, however that we will very soon have to say

good-bye to our Mayor - Major John Bossons is transferred and will be leaving sometime in March. His replacement is - come to the open meeting on 1 March and find out.

Chapel Chimes



RC CHAPEL

Father M. Allan Stack - Base Chaplain (RC) - Telephone 339-2211 Loc. 274; Residence 339-2102.

MASSES FOR SUNDAY:

Saturday - 7:00 p.m.
Sunday - 9:30 a.m. and 11:00 a.m.

WEEKDAY MASSES: 9:00 a.m.

SACRAMENT OF RECONCILIATION: Confessions are heard before all Masses and any time upon request.

BAPTISM: By appointment. Please phone ahead in plenty of time.

MARRIAGES: Please come in months before your marriage.

CATECHISM CLASSES: Each Wednesday night at the PMQ School, 6:30 - 7:30 p.m.

THE PROTESTANT CHAPEL

Telephone: 339-2211 Loc. 273.

L.R. Coleman, Maj. (Base Chap (P))

C.V. Patey, Capt. (Chap (P)).

CHAPEL SERVICES

The Protestant Chapel is located in Wallace Gardens (PMQ area) and Divine Service is held every Sunday at 1100 hours.

This is the Base Chapel and everyone is warmly invited to share in the Service.

HOLY COMMUNION: Holy Communion (ACC) 1200 hours first Sunday of the month.

BAPTISM: By appointment. Consultation with parents expected 2-3 weeks in advance of Baptism.

WOMEN'S GUILD: All women are encouraged to support this group which is very active in missionary efforts. Meets in the Chapel Lounge at 2000 hours on the second Wednesday of each month.

CHAPEL CHOIR: Our Choir extends a warm welcome to all new arrivals. New voices are always needed. Please speak to the Choir Director, Organist or Chaplain.

Junior Choir: 1830 Hrs. Thursday at the Chapel.

Senior Choir: 2000 Hrs. Thursday at the Chapel.

SUNDAY SCHOOL: The Sunday School operates from September to June. Ages 6-15 meet in the Chapel at 0930 hours each Sunday, and the ages 3-5 hold their sessions during the Church period at 1100 hours. All children are invited to attend.

OFFICE HOURS: 0800 - 1630 hours. Phone 339-2211, Loc. 273.

HOSPITAL VISITATION: The Chaplain would appreciate the co-operation of the members of the congregation and would request that they phone the Secretary's office (339-2211 Loc. 273) to report the names of any members of the congregation who may be in the hospital.

Canadian Coast Guard

The Canadian Coast Guard is home on the range, smack dab in the middle of cow country, over 250 kilometres from the nearest tidewater.

Just off Highway 20, at Riske Creek, 35 kilometres west of Williams Lake on the road to the Chilcotin cattle country and Bella Coala, towers the 190-metre high antenna of the Williams Lake Loran C Station, operated by the Canadian Coast Guard.

But the \$10-million installation isn't there to keep the grazing cattle nearby from going aground.

Loran is the acronym for Long Range Aids to Navigation - a system so exact that ships using it can fix their position to within 90 metres, up to 4,000 kilometres away.

That kind of precision is vital for the vulnerable, thin-shelled supertankers now plying the shoal-strewn storm-ridden Canadian west coast.

Each Loran C System or "chain" requires a minimum of three stations: a master and two secondaries. Before the Williams Lake Loran C Station commenced operation, February 1, 1977, only two Loran C chains served the North American west coast: the Gulf of Alaska chain north of Canada and the West Coast chain south of the border.

That left a navigational "hole" between them along the Canadian west coast, and the nervous Ministry of Transport, eyeing the impending supertanker traffic, decreed the establishment of the Canadian West Coast Loran C chain.

Secondary stations can be "dual rated" - serve two masters - so the southern

secondary of the Gulf of Alaska chain, at Shoal Cove, and the northern secondary of the West Coast chain, at George Washington were "slaved" to serve the new Canadian Master, as well.

For mathematical reasons, the three stations of each chain cannot be located in a straight line, eliminating a site along the coast where a Coast Guard station would be expected.

The search turned inland, to

Becher's Prairie, a boulder-strewn open range named for the Englishman who opened a trading post nearby in the late 1880's.

The principle of the Loran system was developed during World War I by the Allies. By placing three microphones at forward locations and connecting them to an oscilloscope, the intervals between the times that the report of enemy gunfire reach each microphone could be

determined. Since the speed of sound was known, it was relatively easy to pinpoint the enemy gun.

The same principle - time differential - was applied, using radio waves, and Loran was born.

The Loran C master sends out a "multi-pulse", eight "blips", 1,000 microseconds (millionths of a second) apart, and a ninth "blip" to indicate the beginning of each group. At a predetermined time

dictated by the master, one secondary sends out a similar group distinguishable from the master's; then a third, similar group is broadcast by the other secondary station.

A ship's logic computer averages the eight "blips" of each signal to come up with an accurate figure, and derives two times: master minus secondary (one); master minus secondary (two). From these, latitude and longitude can be calculated with unprecedented accuracy.

Three \$60,000 Cesium Beam Frequency Standards are used to assure the accuracy of the signals. Signal variations are measured in billionths of a second (nanoseconds).

The Ministry of Transport is currently evaluating sites in the Port Hardy area for a third secondary station for the Canadian West Coast chain. The Shoal Cove signal is low in the lower Georgia and Juan de Fuca Straits, and a closer secondary station will permit more accurate harbor navigation.

You can see the antenna at a

distance if you are driving on Highway 20. The antenna is lit by two strobe lights to warn approaching aircraft and carries a current of 600 amps at peak - enough to fry anyone who doesn't know his ground. A "top-loaded radio umbrella", meaning that the guy lines above the insulators form part of the antenna, it is also known as a "live stick" - lethal.

The Williams Lake Loran C Station is off-limits to curiosity seekers, but tours may be arranged by contacting the station at 398-8912.

CROW PICKINS.

Do you have complaints about the garbage collection service? - if so, then immediately call Local 313, CE Orderly Room, and we will look after the problem. (We don't offer the same guarantee that's displayed on some garbage trucks "Satisfaction Guaranteed or Double Your Garbage Back" but we're working on it).



RANGE AT RISKE CREEK, near Williams Lake, is home for Canadian Coast Guard's navigation station.

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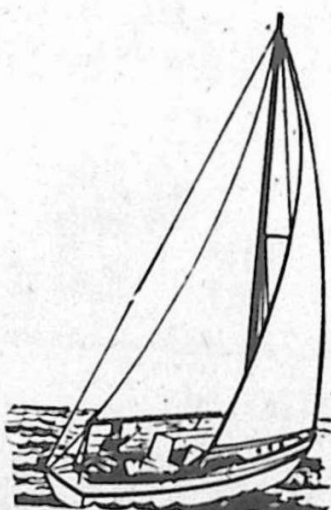
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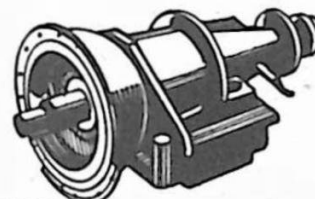
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ANNOUNCEMENT



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Jack comes to us with a wealth of experience. For the past eighteen years, he has worked his way up in various capacities with Volkswagen dealerships in Maple Ridge, Abbotsford and Burnaby. We invite all Volkswagen people to come and meet Jack. You will find him knowledgeable and easy to talk to. We know you'll like him.



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Flight Safety

An Attitude

"Once the sensual pleasure of controlling an aircraft is mastered, exhilaration diminishes and incurable habit takes command. Once the secretly muscled conviction that something dangerous and dramatic might happen - with yourself as hero or victim - is forgotten, then the heart joins the mind in submission to the necromancy of flight. Pilots who have flown for twenty years are unable to shake it - whatever it is" (Ernest K. Grann's "Flying Circus")

Perhaps this is the biggest challenge to face in the flight safety business. Flight safety is quite simply an attitude, and this attitude will determine in most cases whether or not you will be around to relate those great "war stories" to your grandchildren. The great majority of pilots who were killed in aircraft accidents in 1977 had more than 900 hours experience on type (some with a lot more). Flying ability was not considered a contributing factor. Why then did we lose these people? Perhaps it is due to the wrong attitude about flight safety.

Experience, it has been said, is the world's greatest teacher. Not many would question that, but if we fail to learn by our mistakes, and the mistakes of others then we have learned nothing. These truly are no new accidents, just new people!

While in a learning environment way back in pilot training most of us were extremely conscientious both on the ground and in the air. Procedures were well-rehearsed, information in books and checklists were fresh in the memory and a healthy respect for the aircraft and our own limited ability pervaded. The simplest of tasks was analysed and then performed with 100 per cent of our attention. The sure challenge of flying kept the mind and the body alert at all times. Although the experience level was low, the right sort of flight safety attitude, and good airmanship, was emphasized.

Certainly I am not advocating we in the operational Squadrons return to a training environment. That would be counter-productive but all of us should stop for a second to see if our attitude towards flight safety is still as good as it once was. Some of us have become a little too comfortable and complacent. Emergency checklists tend to become a little dusty from lack of use and perhaps a little over-confidence creeps in. The aircraft becomes an old friend that always brings one home and we tend to forget that it has its limitations, that we all are vulnerable.

Although we must maintain a high level of operational readiness, sometimes we push ourselves and our aging aircraft a little too far. We must protect our air resources and more importantly, we must protect our human resources. Taking a little kidding at the bar for not "getting a hack", because you didn't think you could do it safely, is better than not being at the bar at all. The capabilities of the individual and of the aircraft must be constantly assessed. Flying a challenging airplane requires ones full attention at all times. Complacency should be enemy number one.

Taking a little kidding at the bar for not "getting a hack", because you didn't think you could do it safely, is better than not being at the bar at all. The capabilities of the individual and of the aircraft must be constantly assessed. Flying a challenging airplane requires ones full attention at all times. Complacency should be enemy number one.

All of us should take the time to develop and maintain the type of attitude we need to save lives. Perhaps then we could prevent the next accident. Sometimes situations occur over which we have no control, however too often accidents happen when they could have been prevented.

Capt W.R. Cleland
WFSO 409 Sqn.

D.R.E.

OTTAWA - Scientists in the Department of National Defence don't spend any time on "Star Wars" gadgetry. They do military defence research, naturally but quite a lot of it has a spin-off for civilian use - like avalanche control, freeze-dried foods, oil spill control, marine corrosion prevention, etc.

As for avalanche control, the Defence Research Establishment (DRE) at Suffield, Alta., has come up with a method of detonating explosives from long range, and it's being applied to control avalanches in the Canadian Rockies. It's considered a big step in helping eliminate natural disasters.

At the Defence and Civil Institute of the Environmental Medicine (DCIEM) in Toronto, work on freeze drying foods has contributed to today's ready availability of camping and travel foods which don't need refrigeration, have long shelf-life and minimum weight and bulk.

A defence research scientist at Esquimalt, B.C. invented the internationally famous "slick-licker", one of the first practical devices for mopping up floating oil in a continuous process.

Also at Esquimalt, research on anti-fouling marine finishes has influenced the paint industry to market products which reduce costly barnacle build-up. And the DRE at Dartmouth, N.S., helped develop cathodic protection which now is in almost universal use on commercial ships, saving many millions of dollars annually.

In microbiological research, a large-volume air sampler has been developed and it has good potential for use in hospitals and other locations for sampling airborne disease-causing organisms.

Military research on the creation of micro environments of ultra-clean air for fuel cell work is used in operating theatres at several civilian hospitals, affording remarkable protection from airborne infection during surgery.

Electronic Stethoscope

Also on the medical side, DCIEM is continuing research on motion sickness remedies and developing an improved drug with reduced side effects. And under development is an amplitude-to-frequency transformer for an electronic stethoscope which will reveal hitherto unheard sounds from an abnormal heart.

For the underwater enthusiasts, projects under active development include a decompression computer and a helmet-mounted gyro horizon, a compass which provides the diver with stereo sound indicating his direction relative to an intended bearing.

Civilian pilots will be interested in the peripheral vision artificial horizon developed by military researchers. The device is designed to significantly

reduce the workload of pilots flying on instruments and decrease aircraft accidents caused by disorientation. Studies of cockpit and instrument design are an ongoing project.

For power in isolated areas a wind turbine is being integrated with an alternator and a lead-acid battery pack. It is equally applicable to civilian use.

Defence science was established formally in Canada in 1947 when the Defence Research Board (DRB) was formed. Its role was to provide scientific advice to the Defence Minister, meet research requirements of the Canadian Forces, support research of defence interest in Canadian universities and industry and contribute to NATO's collective defence research efforts.

The work of the Board, under a chairman, appointed and ex-officio members, was carried out at its headquarters in Ottawa, at research establishments across Canada and liaison offices in Washington, London and Paris. Approximately 2,000 civilian and military scientists, engineers, technicians and other personnel formed DRB.

Basically, research was DRB's responsibility and the Canadian Forces were responsible for development. In April, 1974, most of DRB was integrated with Canadian Forces, forming a new branch called CRAD - Chief of Research and Development. About 1700 DRB personnel were amalgamated with CRAD, 130 were assigned to the Operational Research and Analysis branch at Defence headquarters and 25 remained with the restructured DRB.

CRAD's role is to conduct material and associated research and development activities for DND and control the programs of its six DREs. At present 1600 people are

employed in the CRAD organization - 1,555 civilians and 45 military.

DRB, with a chairman and the select group of civilian defence scientists, became an advisory body. It analyzes and evaluates on a continuing basis, research and development and other scientific and technological activities of National Defence and recommends the adoption of new programs.

DRE ROLES

There are research establishments manned by military and civilian scientists and engineers at Dartmouth, Valcartier, Que., Ottawa, Toronto, Suffield, Alta., and Esquimalt.

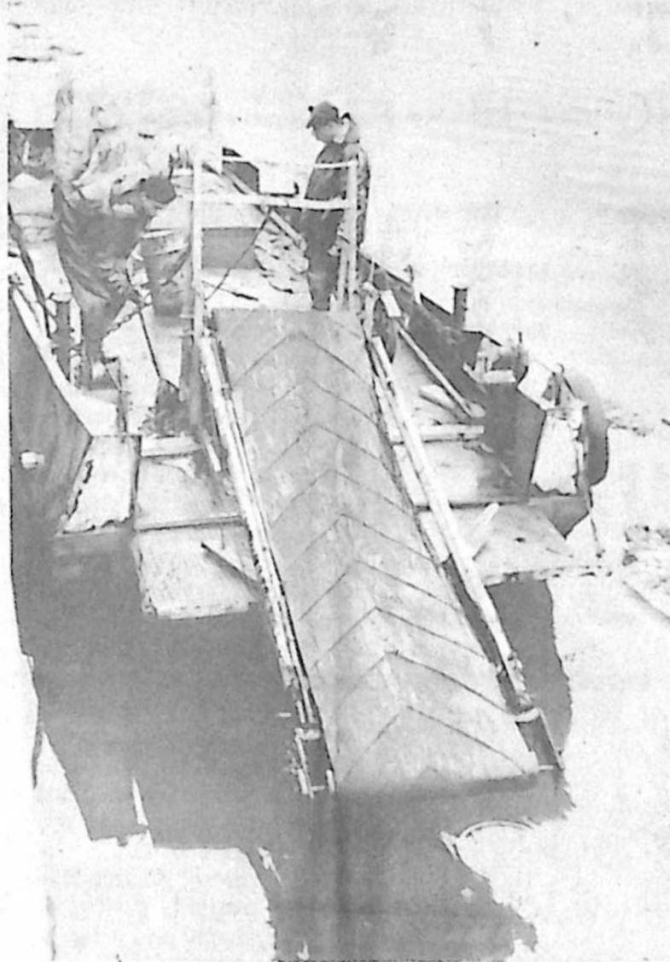
At Dartmouth, the main concern is research related to problems of anti-submarine defence in the North Atlantic, including underwater acoustics and hydrodynamics.

DRE Valcartier's research includes armaments, electro-optical aspects of surveillance and remote sensing, explosives, laser weapons and data systems.

DRE Ottawa, at Shirley's Bay west of the city, carries out applied research in areas such as environmental protection, defensive aspects of nuclear, biological and chemical warfare, communications, electronics, radar and remote sensing. DCIEM in Toronto was formed in 1971 when the Canadian Forces Institute of Environmental Medicine and Defence Research Establishment Toronto were amalgamated. Their program is essentially human performance, including behavior in adverse environments, deep diving and human engineering in man-machine systems.

Suffield, with a secure, serviced test area of 1,000 square miles is involved with military engineering and research including medical and chemical aspects of chemical defence, microbiology, biological defence and the disposal of hazardous and toxic materials. Extensive field testing facilities are available.

Star Wars Gadgetry??



"SLICK LICKER" - Invented by a National Defence Research scientist, the famous slick-licker was one of the first practical devices for mopping up floating oil in a continuous process.

(Canadian Forces photo)

Care And Feeding Of Birds

Collisions between birds and aircraft cause damage and sometime fatal accidents. The birdstrike problem has received a great deal of attention from the news media, in part because many people are interested in birds and aircraft, but also because we can easily visualize the mechanics of birds hitting aircraft. Any motorist travelling at fifty miles an hour who has had the windshield cracked by a flying pebble will not have difficulty imagining the impact of a five pound gull or fat crow on an aircraft travelling at a much greater speed.

The chance of collision between aircraft and our feathered friends increases during low level flight such as

when aircraft are landing or taking off. It is also true that birds like airfields particularly when their resting area is close by and food is easily attainable. We have such a combination at CFB Comox.

Bird-strikes at airfields can be minimized by eliminating birds from runways and vicinity. Unfortunately, more easier said than done. We can, however, reduce the tendency for birds to flock to this base by making the Base less attractive to them. The base is in the process of doing just this. Once features that attract birds, such as watering holes and feeding areas, on the airfield are known, they can be removed or changed to reduce their attractiveness. Changes in the airfield en-

vironment are useful in removing the more obvious bird attractions, but it will be of no avail if Base personnel continue to feed their favourite feathered pets.

Now to the point of this article. Please do not feed the birds on the airfield. Also keep your area clean and insure that food scraps are placed in proper receptacles. The problem with gulls and garbage can be reduced with your co-operation. Garbage is to be bagged and placed in secure receptacles and in accordance with Base and PMQ orders. In addition, personnel and dependents should refrain from feeding their pet gull. It may very well become a statistic along with an aircraft and crew.

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