Members of Signalling Crew at Camp Borden Send "Scrambled" Messages

With plenty of snow on the countryside, Canada's soldiers are already into the full swing of their winter training. This photograph, taken at Camp Borden, shows a signalling crew using a "Fuller Emergency Field Telephone". The messages from this ingenious instrument cannot be tapped because they are scrambled when they leave the transmitter and are unscrambled at the receiving end, thus making it impossible for th ewire-tapper to gleam the slightest bit ofinformation.

How Can I?

BY ANNE ASHLEY

Q. How can I tighten a loose chair rung?

A. Remove the rung, slightly split the ends, insert very small wooden wedges, and then drive the rung back into place.

Q. How can I make a good steel and nickel polish?

A. Mix 1 tablespoon of turpentine, 1 tablespoonful of sweet oil, and enough emery powder to the consistency of cream. Apply with a soft rag, then wipe off, and polish with a dry flannel cloth.

Q. How can I keep the plants in a hanging basket watered without danger of dripping?

A. Put the porous cup from a discarded wet-battery cell in the center of the hanging basket, fill it with water, and it will seep through, supplying the necessary moisture without danger of dripping water.

Q. How can I avoid so much stooping when using the dustpan?

A. Bend the hollow tin handle of the dustpan to a right angle, and insert an old broom handle.

Q. How can I stiffen a rug that persists in wrinkling?

A. Try the following treatment: Dissolve 1 part of common glue in 10 parts of warm water. Hang the rug over a pole and paint the wrong side of it with a paint brush dipped in the solution. Use the solution sparingly or it may soak through and show on the surface. This treatment should be done in the yard, where the rug will dry quickly.

Modern Etiquette

BY ROBERTA LEE

1. Should a man who is walking with a woman carry her packages?

2. When a man and a girl are dancing, and another man wishes to "cut in," is it permissable for either the girl or her partner to refuse?

3. Is it all right for the host to carve at the table, when the dinner is informal?

4. If one were introducing a woman to the president or ruler of some country, shouldn't she be presented to him?

5. What does it indicate when a person is constantly criticizing members of his family, when talking to friends and acquaintances?

6. Should the water glass be filled to the brim?

Answers

1. Yes, if the packages are of considerable size. If the packages are insignificant in size, a few spools of thread, a tube of toothpaste, or a library book, it is not necessary. 3. It is extremely rude to do so, and very embarrassing to the other man. 3. Yes. 4. Yes; in such a case, the woman is presented to the man. 5. Ill-breeding is the only answer. 6. No; two-thirds full is sufficient.

At Benton, Alta., William Denton declares a young coyote chased his 40-pound gobbler one night and they crashed and burst open a wheat-filled implement shed, both being buried alive in the golden grain.

Frelan Wilford, world wheat king in 1933, now goes in for raising champion hogs. He has become a member of the board of directors of the Alberta Swine Breeders' association and in a recent show in Calgary took one first place and four other prizes with his entries, select bacon types.

What Science Is Doing

WIDEN VIEW OF UNIVERSE

Objects in the sky "quite out of reach some years ago" have been brought within range by newly developed telescope aids. Several stars have been added to those known to be among the nearest neighbors of the sun, two of which give out less than one-tenth thousandth part of the sun's light.

SUNLIGHT AND VITAMIN C

Vitamin C may be produced by sunlight in the same way that radiation produces vitamin D, it is indicated by an analysis of tomato plants' vitamin content when kept under variable conditions of sunlight. When the plants were removed from the sunlight the vitamin C content showed a remarkable decrease in quantity, and when they were returned to the light the quantity increased.

NEW WAY TO MAKE HELIUM

Dr. Cecil T. Lane, assistant in physics at Yale University and former student and member of the staff at McGill University, is reported to have built a machine which cuts both the time and cost of manufacture of liquid helium down to a fraction of the former time and cost.

McGill physicists last week commented that the manufacture of liquid helium was a difficult process as helium gas liquefies at four degrees above absolute zero, the point at which all atomic action ceases.

HEALTH TOPICS

More Vitamins in Whole Wheat Bread

No one measure could do so much to advance national health and vigor in wartime as the provision of greater vitamin content in bread, Dr. Frederick T. Tisdall, nutrition expert, told the Health League of Canada in a recent address at Toronto.

The British government last July took steps to supplement the amount of vitamin B1 in all bread. Similar action is being considered in the U.S. and work in this field is now being done at Ottawa.

"In Canada we have discovered in the last few years that most of the vitamin content of our grains goes into the animal troughs," Dr. Tisdall said. The heaviest vitamin content of grain is in the parts discarded in the refining of white bread flour, he explained.

COMBATS NERVOUSNESS

"We used to think that 300 international units of vitamin B1 was a sufficient daily supply but now we believe 500 units are needed. Persons receiving 300 units get along all right, but that if this is cut to 250 units the same people become morose and fretful," he said. Reducing the amount below that figure actually reduced subjects of experiments to a state where they became highly nervous and afraid, he declared.

The simplest way to derive the full vitamin advantages from bread is to eat whole wheat bread, the doctor said, but added "you can't make people eat what they don't like and most of us don't like brown bread."

"A white flour can be produced which will vary very little from our present white flour, yet contain the needed vitamins," Dr. Tisdall added.

Some Canadians Are Promoted From The Ranks

Gen. MacNaughton, chief of the Canadian forces in England, inspects cadets at a Canadian officer training camp. These men are all from the ranks and were elected to take the course to become officers.

Lists Favorite Bathtub Songs

Nelson Eddy Names the Ten Best Ballads For Use While Bathing

Nelson Eddy is quite a singer, and he is probably right in saying that one thing the world needs plenty of just now is good songs—particularly for bathtub use, says the Stratford Beacon-Herald. He has compiled a list of 10 best songs for bathroom bellowing. Here they are, in the order selected: "The Road to Mandalay," "Sweet Adeline," "I Am the Captain of the Pinafore," "Vesti la Giubba" from Verdi's opera, "Pagliacci," or "Figaro" from Rossini's "Barber of Seville," the second verse of "The Star Spangled Banner," (for Canadians we would suggest the second verse of "God Save the King" which probably not one Britisher in 100,000 knows), any good college song, "Drink to Me Only With Thine Eyes," "The Prisoner's Song," "Ah, Sweet Mystery of Life," and "I'll See You Again," from "Bittersweet," which is, however, a "plug" for his next picture.

That isn't a bad list, but for the average man "Vesti la Giubba" is not familiar enough, although the sob in the voice that comes in the last line would be handy for the man who got soap in his eyes.

For the leisurely bather, or for dealing with the spot between the shoulder blades and the small of the back, "Drink to Me Only" is admirable.

For a good vigorous rub, however, we cast a vote ofr "There'll Always Be An England."

Arctic Air Lines Seen by Explorer

In the not too distant future, the Polar regions will be crisscrossed by air lines linking Europe, America and Asia, according to Vilhjalmur Stefansson, noted Canadian explorer of the Arctic, who flew from Edmonton to Montreal by Trans-Canada Air Lines, after a month in Alaska, on his way back to New York. On the year's average, flying conditions in the Arctic are better than those of the North Atlantic, he said.

Canadian National Railways Revenues

The gross revenues of the all-inclusive Canadian National Railways System for the week ending December 14, 1940, were:

.....$5,349,721
as compared with 4,290,358

for the corresponding period of 1939, an increase of $1,059,363
or 24.7%

HAVE YOU HEARD?

The big touring car slowed to a crawl to pass a primitive ox wagon, driven by an ancient graybeard.

"Look at Rip Van Winkle!" exclaimed the 'smart aleck' of the party. "Say, Grandpa, did you ever ride in an automobile?"

"Sure I did! It was a dandy automobile, too — a five-wheeled one."

"Good for you! but why the fifth wheel?"

"To steer with, smarty. Giddap, Buck."

—o—

Only a very, very tactless German asks, on entering a friend's house for dinner, "Where's Fido?"

—Toronto Star.

—o—

A man who had a fight with his wife sent for a doctor to treat his face, which was badly bruised and scratched. After treating the man, the doctor turned to the wife, and said, "I should think, madam, that you'd be ashamed to treat your husband so — your husband who is the head of the family."

"Doctor," she answered, "hasn't a woman got a right to scratch her own head?"

—o—

"How nicely you have made your bed, sonny," said his mother one morning.

"I haven't made it," he replied. "I got out of it carefully."

—o—

Deputy Clerk T. H. Depew, Canton, Ohio, was registering an alien who could neither read nor write.

"Put your X right there," he said, indicating the dotted line with an index finger.

"Oh, sure," said the eager registrant, and quickly drew an X on Depew's fingernail.

—o—

"Why was the period between A.D. 500 and A.D. 1200 known as the Dark Ages?"

"Because those were the days of knights."

—o—

"Now, Pat," said the magistrate sympathetically to an old offender, "what brought you here again?"

"Two policemen, sorr," was the laconic reply.

"Drunk, I suppose?" queried the magistrate.

"Yes, sorr," said Pat, without relaxing a muscle, "both of them."

Fish can hear, distinguish between colours, and make a noise when they eat.

20 P.C. Increase In C. N. Revenues

Net revenue of $5,524,224 for the month of November and of $38,733,861 for the eleven months period, January to November inclusive, is shown in the monthly statement of operating revenues, operating expenses and net revenue of the Canadian National Railways all-inclusive system issued at headquarters recently.

Operating revenues were $22,389,448 in November of this year and operating expenses $16,865,224. There was an increase in net revenue of $549,620 for the month over that of last year.

For the eleven months of the present year, operating revenues were $223,790,418, an increase of $39,016,549 over the corresponding period of last year. Operating expenses up to November 30 of this year were $185,056,557, an increase of $17,363,493 over the similar period of 1939. The net revenue of $38,733,861 for the first eleven months of 1940 represents an increase of $21,653,056 over the corresponding period of 1939.

The Best Woods For House-Heating

Hard maple, yellow birch, beech, oak and hickory are among the best Canadian woods for fuel, a cord and one-quarter of any one of them being approximately equal in heating value to one ton of anthracite coal. Regardless of what wood is used, it should be as dry as possible for not only does wet wood give out less heat than dry wood but it is also apt to cause fouling of the pipes. For this reason firewood seasoned for less than one year should not be used, and to achieve the best results wood should be cut into suitable lengths for the stove or furnace as soon as possible so as to permit the most thorough seasoning.

More Fast Trains On This Continent

Railroad passenger service in Canada and the United States is much faster than it was a year ago, according to the annual train schedule survey just completed and made public by Railroad Magazine. This study shows that separate runs operating daily at an average speed of a mile-a-minute or more grew during the year from 997 to 1,226—a jump of 23 per cent. The extension of mile-a-minute railroading, it is pointed out, is primarily due to the general improvement of inter-city services rather than to a spectacular speed-up on any one system.

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MAKE SURE OF THE QUALITY of your chicks before placing your order for 1941. Baden chicks are good chicks all from Government Approved blood-tested breeders. Send for early price list, also older pullets. Baden Electric Chick Hatchery Limited, Baden, Ontario.

HUNDREDS OF CUSTOMERS ARE writing us about the success they had with their 1940 Top Notch Chicks. Before you order for 1941 investigate the profit making ability of Top Notch Chicks. Free catalogue, also older pullets. Top Notch Chickeries, Guelph, Ontario.

HERE ARE THE CHICKS YOU AND 1941 have been looking for: Bigger, huskier chicks from stronger, blood-tested breeding flocks. Buy these better chicks from Tweddle at prices you can scarcely believe possible. Never more for your money than Tweddle's 1941 Chicks. Big money saving discounts for early order and early delivery of Tweddle Chicks. Free catalogue. Also older pullets. Tweddle Chick Hatcheries Limited, Fergus, Ontario.

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DISTRIBUTE 200 FAMILEX NECessities from door to door. There is a big demand for toilet articles, medicines, alimentary products, cleaners, etc. Sell for guaranteed satisfaction or money refunded. Reap profits with your first sales. Increase your list of customers every day. Try this independent business without RISK. FOR DETAILS, communicate with G. St. George, 570 St. Clement Street, Montreal.

JOB OPPORTUNITIES

WE COACH FOR GOVERNMENT positions on deferred payment, paying after appointment. List of openings, particulars free. Rodd Training School, 582 Burrows, Winnipeg, Man.

LEGAL

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IT'S EXCELLENT, REAL RESULTS after taking Dixon's Remedy for Rheumatic Pains and Neuritis. Munro's Drug Store, 335 Elgin, Ottawa, Postpaid $1.00.

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PEOPLE ARE TALKING ABOUT the good results from taking Dixon's Remedy for Rheumatic Pains and Neuritis, at Munro's Drug Store, 335 Elgin, Ottawa. Postpaid $1.00.

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