

CANADIAN NAVY MAINTAINS VIGIL



Canada's Navy kept the sea through fair weather or foul, in rain or fog, ships of the Royal Canadian Navy maintain their vigil at sea. Here one is seen, looming out of the mist, while in one of her consort is a seaman stands his watch.

What Science Is Doing

WHAT SCIENCE IS DOING?—SQUEAKING DIAMONDS—Touch a diamond and almost any part with a piece of dry ice and they squeak. Imitations don't. So reports Miss Mary D. Walker, of the London School of Medicine for Women.

The explanation is simple. When dry ice (solid carbon dioxide) is heated it turns at once into a gas and the liquid stage. Touch a metal plate with a point of dry ice, and heat passes through the plate to the dry ice, whereupon gas is formed. The steam pushes away part of the plate in front of it, whereupon it stops and the plate springs back. This happens about 1,000 to 4,000 times a second, so that we have high-pitched sound vibrations. Touch a piece of glass or wood and no squeaking is heard. Miss Walker has learned the trick of producing continuous, very high musical notes from diamonds and pearls. A very light, steady touch is demanded to make a gem sing, and so is a sense of when the vibrations are about to begin.

OCEAN YIELDS MAGNESIUM Recovery of metallic magnesium from seawater at Freeport, Tex., by the Dow Chemical Company of Midland, Mich., recently was called the outstanding chemical engineering achievement since 1940. At the Freeport plant, some 300,000,000 gallons of raw ocean water are daily processed to produce 100,000 pounds of metal as well as large quantities of bromine for anti-knock motor fuel.

Modern Etiquette

- 1. Should you be sent to the hotel to hold the room that has been reserved if one finds he is unexpectedly delayed and cannot arrive on the day stated in his reservation?
2. Should the woman or the man precede when leaving the dining room of a hotel?
3. Should a man always assist a woman to enter or leave an automobile?
4. Is it all right to eject from the mouth to the floor the 'little specks' of tobacco that separate themselves from the cigarette or the cigar?
5. Should some kind of amusement be provided for children while traveling with them on a train?
6. Are place-cards used at the informal luncheon?
7. Yes. Because hotels do not hold the room if you are not there to claim it within a reasonable time after you have said you would be there.
8. The woman precedes, the man follows. Neither should forget the 'good night' to the waiter or head waiter.
9. Yes.

HAVE YOU HEARD?

"Did you hear about Jones and his car?" said Brown to his neighbor over the back fence. "No, what about it?" "Well you know, it's a very old car, and old bits are always falling off when he goes for a ride. So he got the idea of tying a magnet behind to pick up the parts which dropped." "Smart idea, anyway." "Yes, but in the end Jones found himself riding on the magnet!" "Yes," said the great man. "I woke up one morning and found myself famous." "It was slightly different with me," sighed the other. "I found myself famous—and then I woke up."

General: "Confound it sir; why can't you be more careful!" Scientist: "What have I done, sir?" General: "Instead of attending this letter of intelligence Officer, you have addressed it to the Intelligence Officer, you should know that there is no such person in the army." "And what is a synonym, Willie?" asked the teacher. "A synonym," said Willie, "is a word that you use when you can't spell the other one." A friend called up a guest at a hotel, knocked, and asked him to open the door. "Can't," said the doorman. "The door's locked," the voice within answered. "Well unlock it!" "Can't," he replied. "What will you do if there's a fire?" "I can't go."

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CHANTECLER Cigarette Papers NONE FINER MADE. Iodorgol-Iodine Livestock Feed Supplement. Relieves MONTHLY FEMALE PAIN. Women who suffer from irregular periods with cramps...

IT'S TIME TO TRY BIG BEN THE PERFECT Chewing Tobacco THAT'S MY CHEW

Nazis and Turks Sign Barter Pact Conclusion of a German-Turkish trade treaty involving 200,000,000 Reichsmarks (nominally \$50,000,000) on each side was announced recently. It will run until March 31, 1943.

WANTED MEN BETWEEN THE AGES OF 18 AND 45 TO TRAIN FOR RADIO MECHANICS Applicants must be British subjects; must have successfully completed Grade X of their secondary school education and be prepared to enlist in the R.C.A.F. at the completion of their 24 weeks' course.

THIS CURIOUS WORLD By William Ferguson A NEW MOON HAS JUST AS MUCH EFFECT ON THE TIDES AS DOES A FULL MOON

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Modern Etiquette By ROBERTA LEE. 1. Should you be sent to the hotel to hold the room that has been reserved if one finds he is unexpectedly delayed and cannot arrive on the day stated in his reservation?

SUNDAY SCHOOL LESSON

LESSON 18 8th and 15th Conferences—Gen. 25:24; Ex. 14:15; Jer. 17: 9-10; Mark 7:25-26; Rom. 1:18-23; 2:1-7; Gal. 6:7, 8; James 1:18-19; John 1:18-21; 4: Rev. 22:10-12. PRINTED TEXT—Gal. 6:7, 8; 1 John 1:5-2:8.

Golden Text—If we confess our sins, he is faithful and righteous to forgive us our sins, and to cleanse us from all unrighteousness. 1 John 1:9. THE LESSON IN ITS SETTING The text recorded in the book of Genesis took place at the time of which we do not know. The 14th Psalm was written by David and then was named some time between 1045 and 1015 B.C. The passage taken from Jeremiah may be placed about 601 B.C. The words of our Lord were uttered in April, A.D. 29. The Epistle to the Romans was written in A.D. 58. The Epistle to the Galatians was written probably A.D. 58.

Men and the truth is in Him; it is in Him that we are saved, and that which he has saved, will turn to decay. A course of self-indulgence converts a man into a monster, and the monster is finally destroyed. That which man saves, and that which he has saved, will turn to decay. A course of self-indulgence converts a man into a monster, and the monster is finally destroyed.

COUPON RADIO MECHANICS COURSE Name: (Use Block Letters) Street Address: City or Town: Province:

THE BIRD KNOWN AS CHUCK-WILLS-WIDOW LIES DOWN WHEN RESTING. Rattlesnakes more than 8 feet long have been recorded.

POP—Passed Up. SHOW ME COLONEL BUNDUCK'S ROOM AT ONCE! IT'S RATHER A LONG WAY, SIR! THIS IS IT, RIGHT AT THE END, SIR! HE'S NOT IN. NO, SIR! THAT WAS HE STANDING BY THE FRONT DOOR!

RADIO REPORTER OUR RADIO LOG

Table with columns: TORONTO STATIONS, C.P.S. STATIONS, and SHORT WAVE STATIONS. Lists various radio call letters and frequencies.

Members of the newly-formed Air Cadets of Canada take the same elementary flying course as their big brothers in the RCAF. Above, Cadets Pierre Lebeaux and Andre Jobin, of No. 2 Jean de Brebeuf Squadron, Montreal, study a scale model of the solar system.

PUBLICANT FOR ENLISTMENT IN THE R.C.A.F. CANADA

BALLAD COMPOSER HORIZONTAL Answer to Previous Puzzle. 1 Pictured song writer. 2 Intended. 3 House top. 4 Operatic melody. 5 Musicians' tools. 6 Hideos. 7 Flat-bottomed boat. 8 To view. 9 Group of plants. 10 God of love. 11 Transposed (abbr.). 12 To slash. 13 Knot. 14 Japanese fish. 15 Valued. 16 Ketch. 17 To poke. 18 TO KILL. 19 Lady. 20 Little devil. 21 Company. 22 Southern (abbr.). 23 Electric unit. 24 Explain. 25 Mister (abbr.). 26 Put on shoes. 27 Knoll. 28 Japanese fish. 29 Valued. 30 Ketch. 31 To poke. 32 TO KILL. 33 Lady. 34 Little devil. 35 Company. 36 Southern (abbr.). 37 Electric unit. 38 Explain. 39 Mister (abbr.). 40 Put on shoes. 41 Knoll. 42 Japanese fish. 43 Valued. 44 Ketch. 45 To poke. 46 TO KILL. 47 Lady.

R.C.A.F. Needs Radio Students. An appeal for a considerable number of men between the ages of 18 and 45 years, to be trained as radio mechanics for R.C.A.F. duty, has been issued by the Dominion-Provincial War Emergency Training Program.

By J. MILLAR WATT. A short story or comic strip snippet.