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Summer Best Time to Check the Heating

Good Idea to Inspect System and Make Needed Improvements.

The summer being a slack season in the heating industry is the most opportune time for overhauling, replacing or modernizing home heating plants, says the Canadian Institute of Plumbing and Heating in a bulletin discussing the care of household boiler and warm-air units. While some heating plants may need only a thorough cleaning and checking of automatic controls, others may need major alterations and the addition of new equipment or accessories which will provide greater fuel economy and better distribution of heat in its next working season. Repairs and alterations can best be made in the summer without inconvenience to household routine.

It is very important that all soot-lined surfaces be cleaned. Soot not only acts as an insulator to diminish heating efficiency but has also corrosive tendencies, especially if it becomes damp, as it is liable to do in humid weather. The annual cleaning of the plant should therefore include a thorough cleaning of the firebox and flues; cleaning and removal of the smoke pipe; greasing of the edges of all doors and checking and oiling of all draft controls. The grates should be carefully inspected and any which are broken or warped, permitting unburned coal to drop into the ashes, should be replaced.

In the case of an automatically fired plant, the controls should be carefully checked. Pumps, motors, and all moving parts should be examined, cleaned, re-packed and oiled. An inspection of the pipes and, in the case of hot water systems, the radiators and valves is desirable in order to deter-

mine that all the heat generated by the boiler is transmitted to the rooms. Additional insulation of boiler and pipes may be found to be advantageous. Many an old hot water boiler may be given added efficiency by the installation of a pump to force the circulation of the water through the system.

At the same time, says the Institute if a boiler or furnace is well in years, it is usually wiser to retire it than to spend a good deal of money in patching it or in adding gadgets. Nobody thinks of keeping a car beyond a reasonably useful life of service and while, in comparison with a car, a heating plant will last a lifetime, there does come a day when it, too, should give way to a new model. Whether the preference of the individual is for hot water or warm air systems, both types have been vastly improved in the past few years not only in the handsome lacquered jackets and automatic operation which have given such stimulus to utilizing the basement for living space but, what is more important, in the interior design which produces more heat for less fuel.

Sister of Timmins Man Passes Away in Ottawa

Ottawa, June 27—Mrs. Jeremiah S. Lemieux, resident of Ottawa for the past 14 years, died suddenly at her home, 64 Waller street, on Saturday, she was in her 67th year.

Born in Alfred, Ont., the daughter of the late Richard James, and his wife, the former Sarah Downing, she moved to Fournier, Ont., shortly after her marriage to Jeremiah Lemieux in 1900.

Mrs. Lemieux took up residence in Ottawa 14 years ago. She was a devout attendant of St. Joseph's Church, and was a member of the Living Rosary Society.

Surviving, in addition to her husband are three daughters, Mrs. Gustave Gagnon, of Montreal, Miss Irene Lemieux of the Metropolitan Life, Ottawa, and Miss Christine Lemieux, of Orme, Limited, three sons, Philip, also of the Metropolitan Life, Ottawa, Hector, of the Frontenac Oil Refineries, Hawkesbury and Victor, of the B. Houde Tobacco Company, Smith Falls; one brother, Garrett James, of Timmins, and two grandchildren, Gerald and Louise Gagnon, both of Montreal.

The funeral will be held from her late residence on Tuesday, June 27, at 7:45 a.m. to St. Joseph's Church for requiem high mass at 8 o'clock, thence to Fournier, Ont., for Libera service at St. Bernard's Church at 10:45 a.m. Interment will take place in the parish cemetery.

Sudbury Star:—The international situation shows that allies are nations that may or may not stand by you in troubles you would not have had if you had no allies.

Norsemen Visited Canada 1000 Years Ago, Savant Says

Finds in Lake Nipigon Area Described as Proof.

London, Ont., June 28—Evidence that Canada was visited by Norsemen 1,000 years ago was presented to members of the Ontario Historical Society at their final-session of the annual meeting here Friday. Prof. T. F. McIlwraith, of the University of Toronto and the Royal Ontario Museum told of finds made in Lake Nipigon district in recent years which were indisputably Scandinavian in origin.

A sword part of a shield handle and an axe-head were undoubtedly of the 10th century, Prof. McIlwraith said. They had been authenticated by experts and were believed to have been left in Northern Ontario by a Norseman who came by way of Hudson Bay. There had been attempts to show that these objects were "planted," the archaeologist said, but he was satisfied they were discovered by the prospector from Port Arthur who turned them over to the Ontario Museum.

Meeting at the University of Western Ontario the historians heard Dr. P. Nash, of the Royal Ontario Museum, and Wilfrid Jury, curator of Western's Indian collection, speak of various phases of early Indian life in this district.

Planked Floors in Huts
Dr. Nash illustrated his lecture with lantern slides of the excavations in the Aylmer District which would seem to indicate the Iroquois Indians used planked floors in their dwellings. This fact had not been previously discovered, but the speaker said he was convinced from the charcoaled remains found there that rough-hewn boards about two inches thick and 11 inches wide had been laid down by the early tribes.

Tracing the centuries-old Indian trails of Western Ontario, Mr. Jury said these narrow paths, most of which later became county roads and highways. The most famous of these trails, the Longwood Road had survived as King's Highway No. 2. Mr. Jury said and countless other paths were still in evidence.

With Bishop Seager and Dean Jenkins assisting a memorial window to Col. Mahlon Burwell, pioneer surveyor with Col. Talbot in the Western Ontario district, was dedicated in St. Paul's Cathedral as the closing act of the two-day convention. The window, it was explained, was originally erected in Burwell memorial Church, Carleton Place, which had been abandoned and members of the London and Middlesex Historical Society had it removed to St. Paul's, a church already rich in historical association.

Would Use Uranium as Substitute for Coal Heat

Figures \$2 Worth of Uranium Equal to \$10,000 Other Fuel.

Paris, France—Frederic Joliot, co-winner of the 1935 Nobel prize for chemistry, is trying to find a way to make a pound of uranium, worth \$2, give up as much heat or power as is now obtained from burning \$10,000 worth of coal.

Joliot is working independently of his wife, Irene Joliot-Curie, with whom he was given the 1935 Nobel award. She is the daughter of the famed Pierre and Marie Currie, discoverers of radium.

Joliot recently received associates and told them of his experiments to make uranium a cheap substitute for coal.

The basic principles for such a dis-

BEAUTY AT THE CIRCUS



Cole Bros. Circus, showing at Timmins on Monday, July 3rd, Pine street and Second avenue grounds, features beauty—beauty in girls, horses, dogs, other animals. There are a hundred beautiful girls in Cole Bros. Circus, with sixty clowns as a proper foil. Clowns also are featured in this circus, and this is one reason for the special popularity of Cole Bros. big show. Another extra special reason for this particular popularity is the big free street parade held at 11 a.m. on every day the circus presents its show. Still another favourite feature with the boys and girls (of all ages) is Art Mix, Western movie star, and his congress of rough riders.

covery already have been found and tested, but Joliot, a professor at the College de France, admittedly is tackling a tough job in attempting to bring them to solid practical results.

Use Neutron Beams
It has been found that when uranium is bombarded by an electrical beam made of neutrons, some of the uranium atoms split in two. The neutron beams are made in various ways in laboratories, either with the aid of radium or with high-voltage electrical machines.

When the uranium atoms split, the parts fly off from the metal in the form of two high voltage particles. If enough of these particles can be produced, they will form an electrical beam which can be used to operate machines. A very low-voltage neutron will split a uranium atom and the two halves of uranium come flying off with very high voltages. Thus a little incoming power theoretically could turn into a huge outgoing electrical beam. The difficulty is to get the neutrons in the incoming neutron beam to make enough hits.

Like Firecrackers
That has been an insurmountable trouble in all previous attempts to unlock atomic power. But the uranium may offer a way to dodge this trouble. For it has shown indications of having its atoms act like a bunch of firecrackers. Set off one cracker and the others follow by what is known as a chain reaction.

Uranium atoms will do the firecracker trick under certain restrictions. If scientists can find practicable means to set up uranium chain reactions, then it is estimated that it may be possible to obtain from one pound of uranium as much energy as is at present obtained from 1,250 tons of coal.

Prof. Joliot and his wife collaborated for several years on radium and are the authors of artificial radio-activity.

Works on Radium
But now Mme. Joliot-Curie, primarily a chemist, is following her mother's activity with radium obtained from natural sources. Prof. Joliot has created a new research centre devoted solely to the problems of artificial radio-activity and to their future ramifications.

He is director of the laboratory of Nuclear Chemistry at the College de France and also of the Laboratory of Atomic Synthesis at suburban Ivry.

The laboratory at the College de France here does not have such powerful apparatus as that at Ivry but is richer in testing, observation and ultra-sensitive apparatus.

It was in the Paris laboratory that Prof. Joliot gave the experimental

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proof last January of the explosive splitting of the nucleus of core of uranium, about the same time that similar experiments were made at Copenhagen but earlier than those at Columbia University.

Minister Likes to "Gamble" in the Matter of Fishing

"I have made great friends out fishing for there is a brotherhood of rod and line, of sky and stream that is very real close to God's design out fishing," declared Rev. J. Richmond Craig, preaching in St. James Church at Ottawa on Sunday evening on "I Go A-Fishing."

"I go a-fishing," he said "because I like adventure. Fishing is the only form of gambling I indulge in. I like to gamble with the weather, the lake and the stream. Fishing brings out the qualities in a man's nature. You get to know him when you go fishing with him. The rich and the poor are comers, whether he is an urchin with a palm rade, all brothers, of a common ruler, whether he is an urchin with a pin on a string or a millionaire with finest tackle."

"A man is not liable to think mean things when out fishing. He has no time for hate. He gets a chance to dream and he can wash his soul in God's fresh air and relish the plain simple things of life."

Sudbury Star:—For a while Canada will feel rather flat without the King and Queen.

Examination for Nurse Registration in Ontario

Announcement was made some days ago by the Ontario Minister of Health of these this year passing the examination for nurse registration as required by the Department of Health. The list included the following: from the North: Timmins—Barnalette Aube, Helen Jacqueline Nault, Beatrice Ethel Taylor.

South Porcupine—Carol E. Ferguson. Halleybury—Gwyneth Margaret Davis, Kirkland Lake—Ethel E. Collins, Cochrane—Bertha Elaine Pollock.

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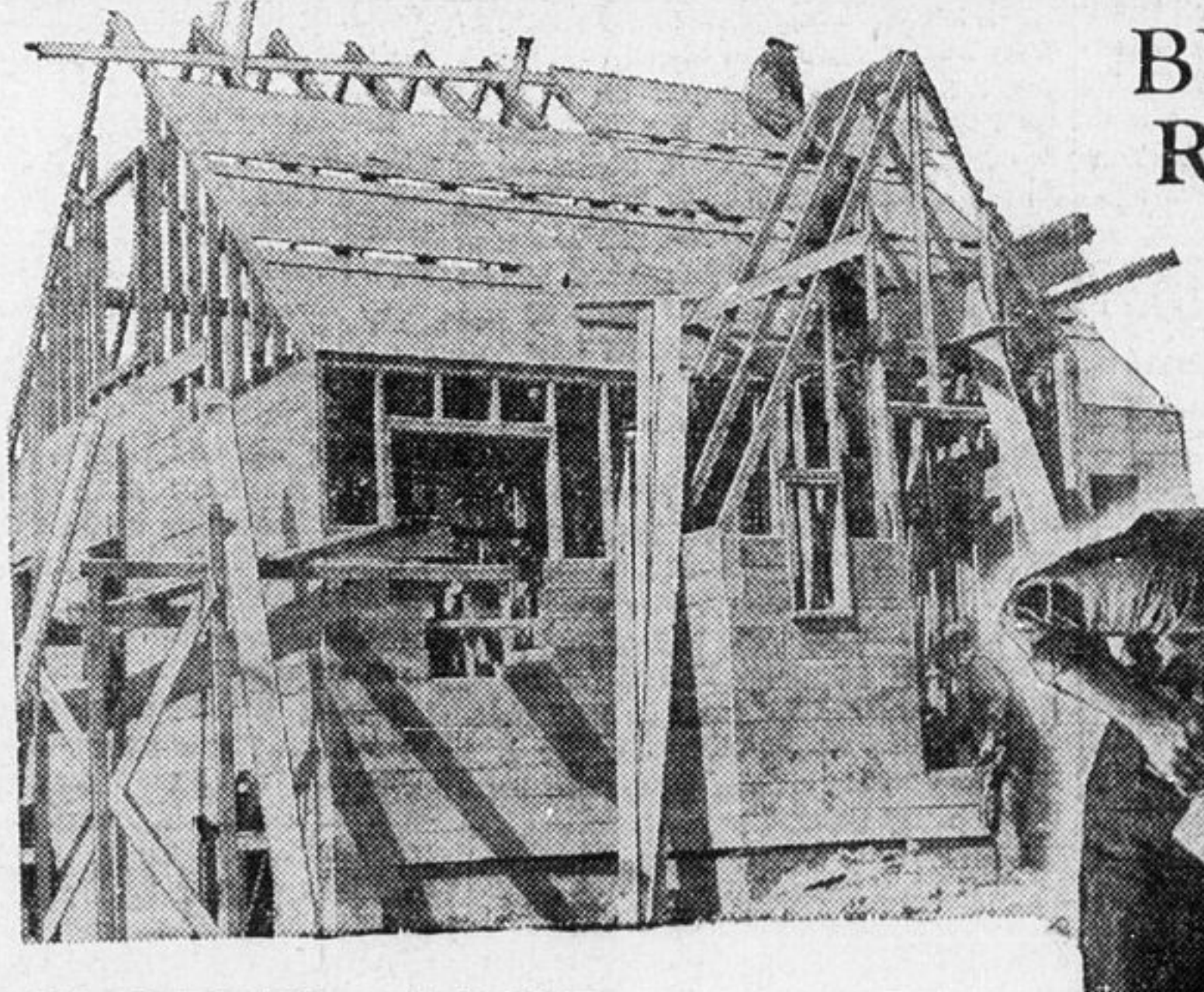

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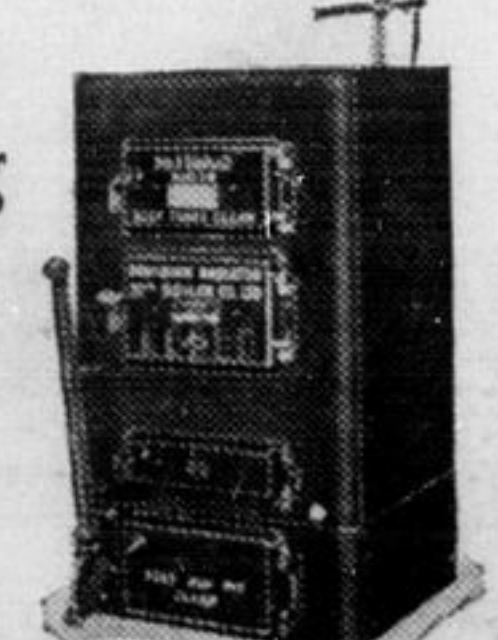
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