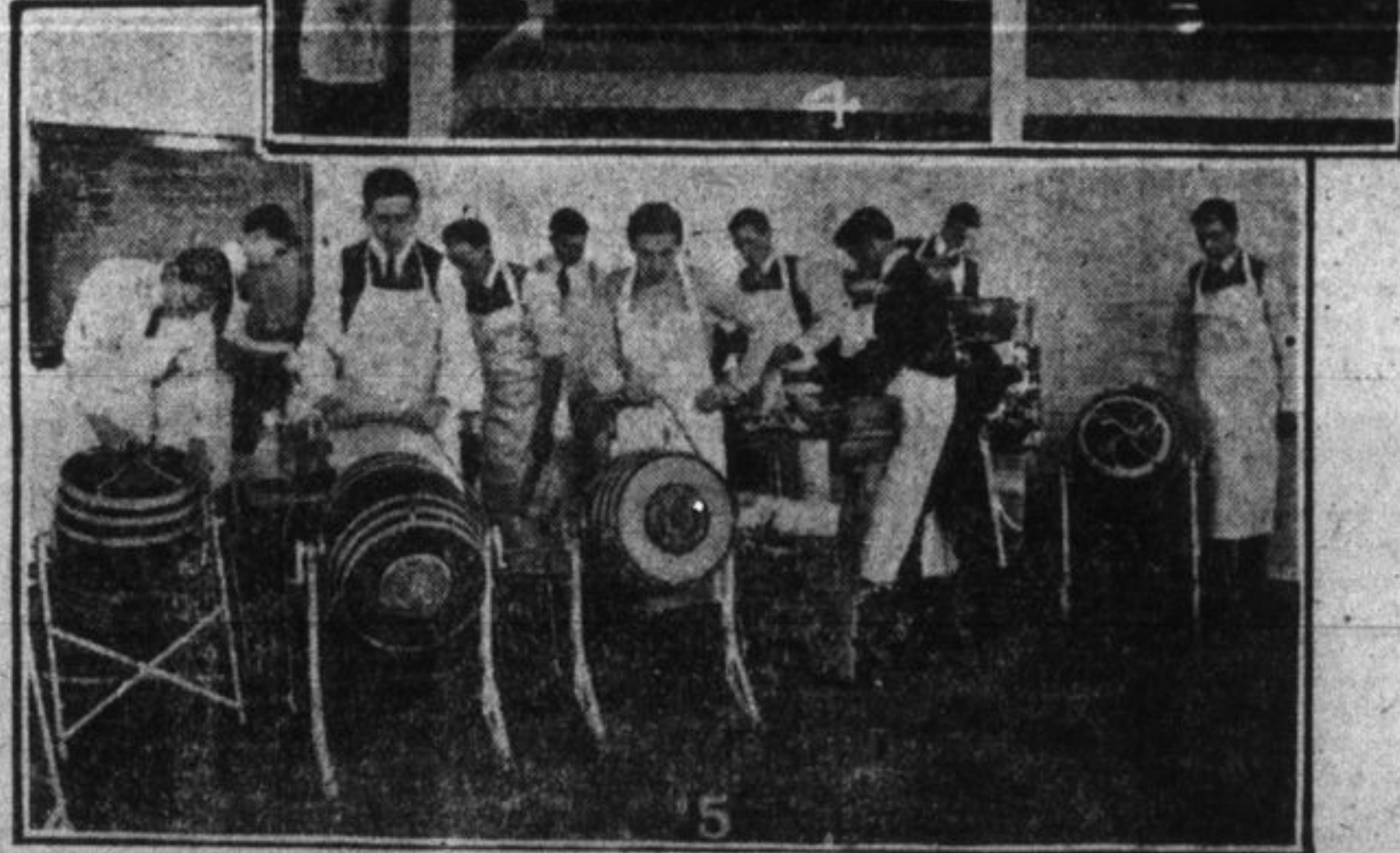
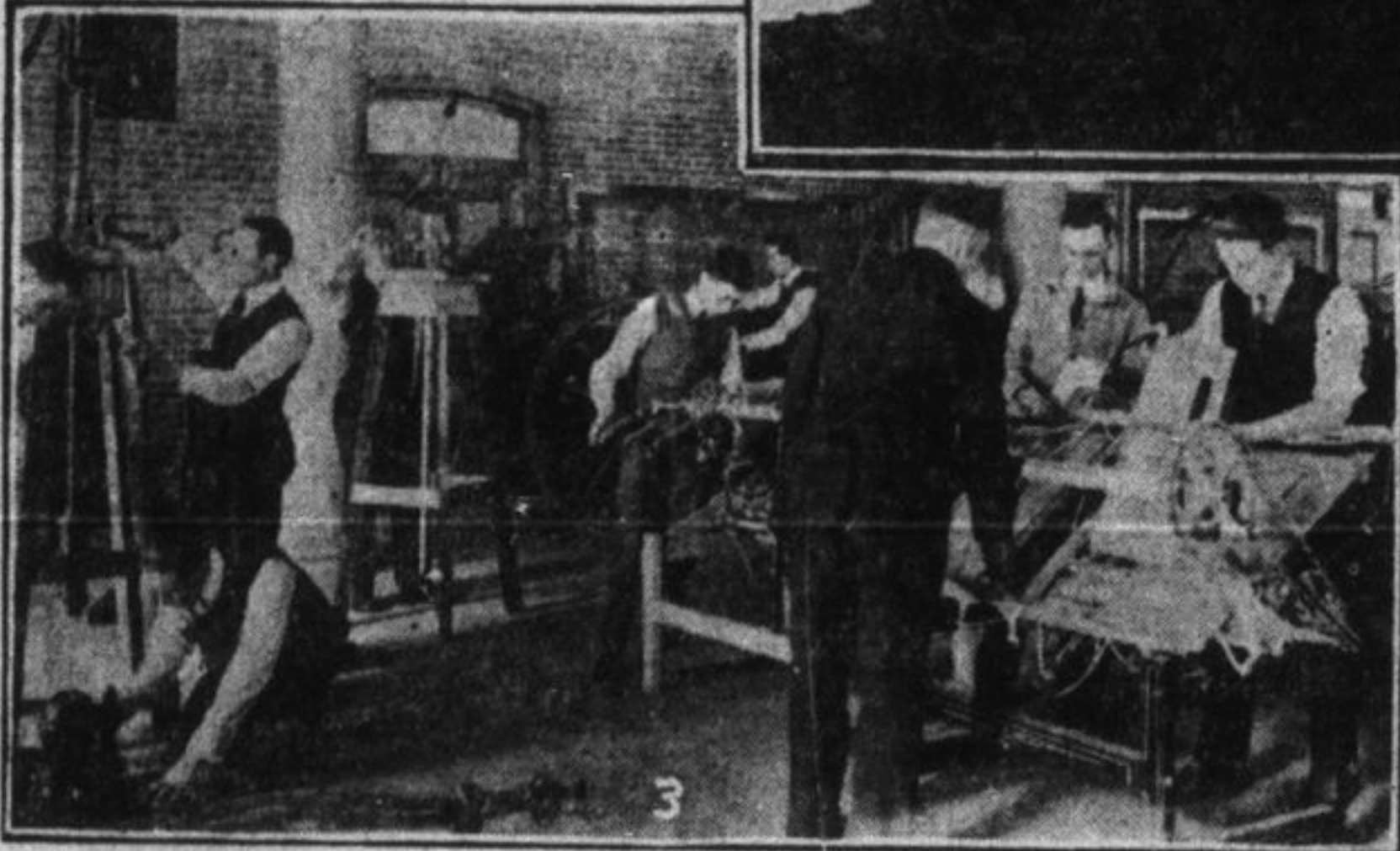
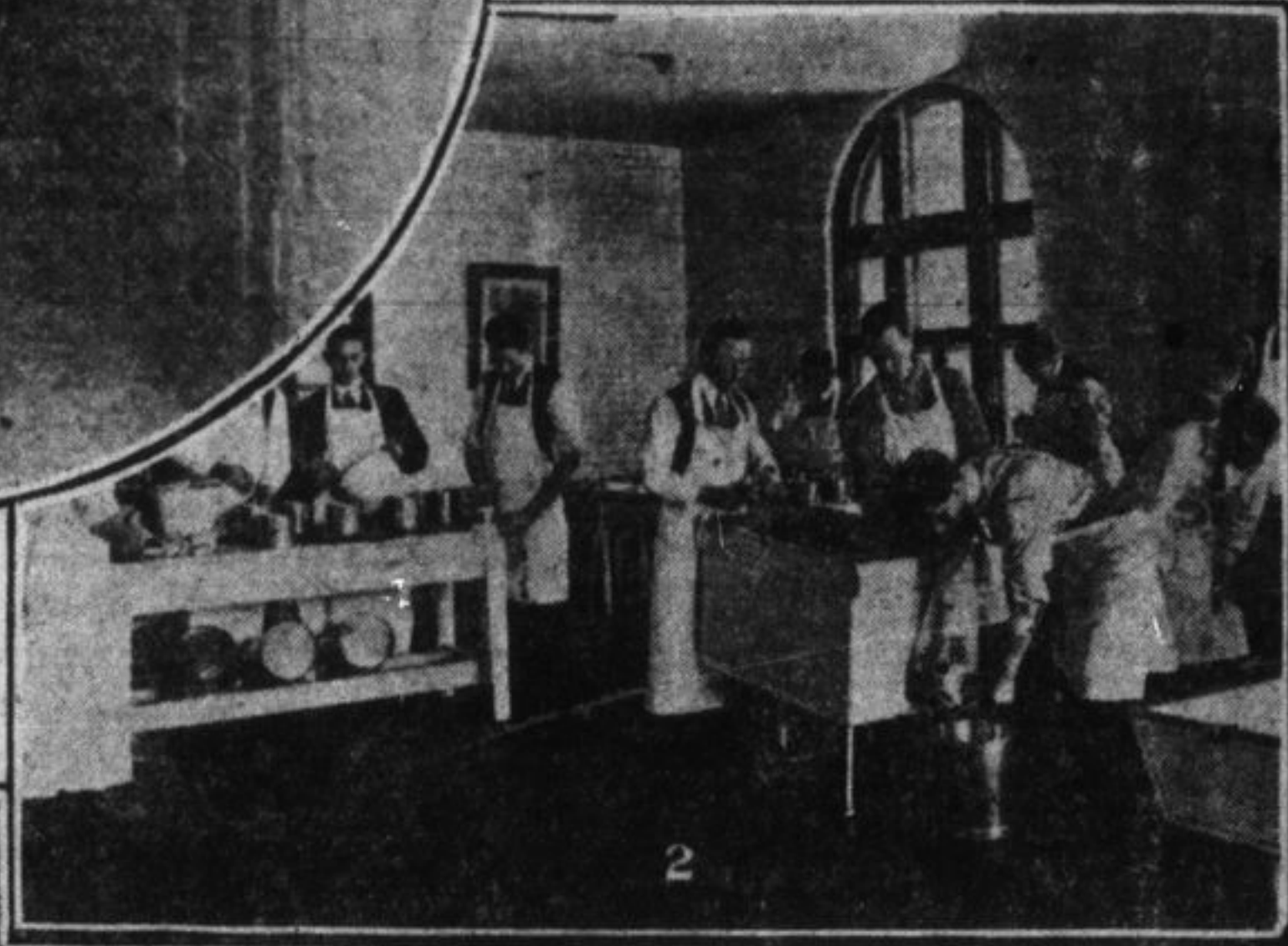
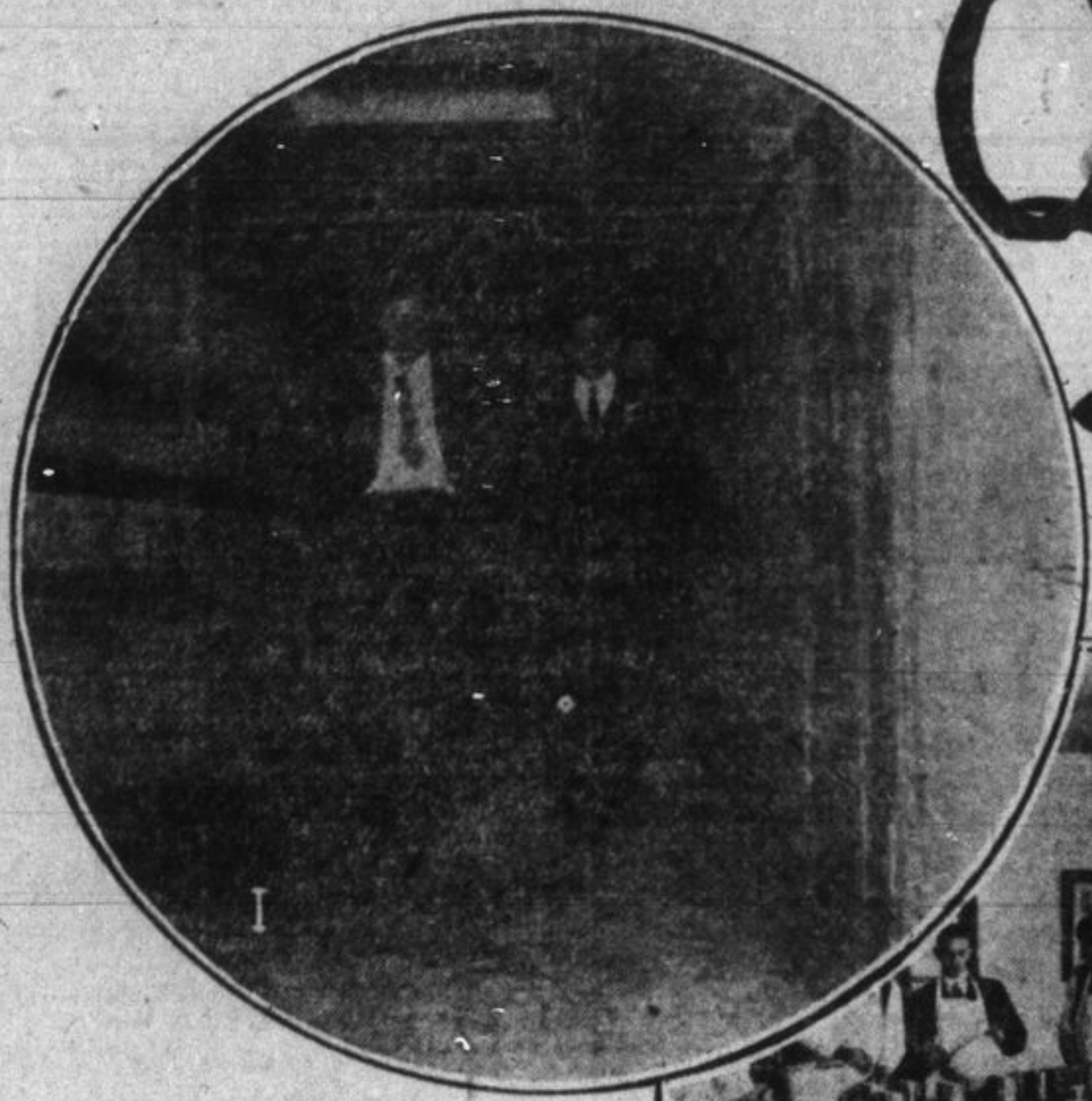
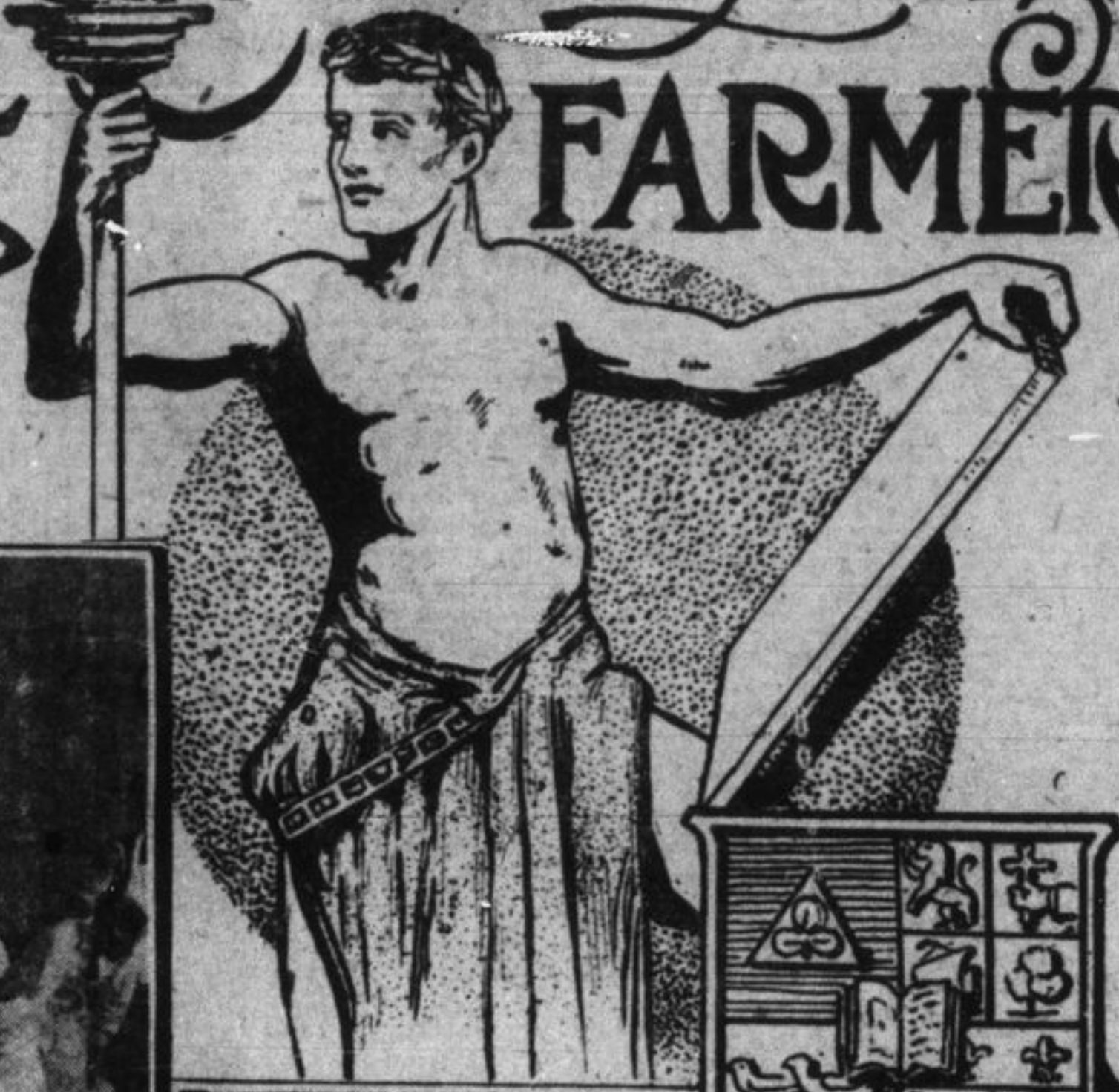


QUEBEC & The Young FARMER



- (1) An underground passage.
- (2) The cheese class.
- (3) Repairing agricultural machinery.
- (4) Cheese making.
- (5) Butter making at Macdonald College, St. Annes de Bellevue, P.Q.

SEVEN million dollars have been spent in providing the young men and young women of Canada desiring instruction in scientific farming and domestic economy with a magnificent building wonderfully equipped and staffed by over sixty expert teachers and professors. This is Macdonald College, situated in the pretty, historic village of St. Annes de Bellevue, twenty miles by C. P. R. from Montreal. Sir William Macdonald, its founder, wished to benefit especially the farmer's son and the farmer's daughter so that they should take a pride in good farming instead of drifting into crowded city professions. There are short courses and more elaborate courses for both sexes, and so splendid is the teaching that students come from the United States, South Africa and the West Indies to benefit by such facilities for education. But these have to pay, whereas the sons and daughters of Quebec are taught free how to make bread, delicious butter and cheese, dairying, poultry farming, fruit growing and all the arts that are helping to make Canada the greatest agricultural country in the world. Last year 815 pupils were registered at this college, and twenty graduated with the degree of Bachelor of Agricultural Science at McGill. 2,500 farmers came to visit the college in connection with different agricultural excursions. Macdonald College also supplies lecturers for the "Better Farming" trains which the C. P. R. sends out each year to teach those who have to stay at home and organizes short courses in various branches of agriculture throughout the Province of Quebec.

The Newest Notes of Science

Boiling wood ashes in water in a coffee pot will sweeten it.
Denmark has about 85 head of cattle to every 100 inhabitants.
A paste made of salt and vinegar will cleanse stained enameled ware.
Japan is the only Oriental country in which sheet glass is manufactured.
An average man breathes about 21 cubic feet of air into his lungs every hour.
England has 14,152 telegraph offices and last year handled 87,000,000 messages.
A motorboat has been invented that can be driven through water or over ice or land.
Experiments in France have shown that ordinary sod is an efficient filter for sewage.
An electrically driven machine has been perfected that will seal 20,000 envelopes an hour.
The world's greatest iodine works are in Chile, having an annual output of 400,000 pounds.
The number of telephones in the United States has increased fifteenfold in the last fourteen years.
Pulverized street rubbish and coal tar have been found to make good fuel briquettes in Amsterdam.
Resembling a hinge is a new burglar-proof lock in which the bolts drop perpendicularly into sockets.
The Government of Brazil maintains a snake farm for the production of serum antidote for snake bite.
A table to hold toys which can be converted into a dollhouse has been patented by a Kentucky inventor.
Russia is known to have 28 powerful wireless stations, France eight, Germany seventeen and Austria Hungary four.
Water motors have been designed for ringing fog bells to save the expense of employing men for the task.
Three asbestos mines have been opened in China, where extensive deposits of the mineral have been found.
The case of a new electric torch is extended in tubular form to slip on the handle of an umbrella or cane.
By means of a secret process a French scientist converts flowers, fruit and even animal tissues into metal.
California's crude oil production last year was 102,623,695 barrels, as compared with 97,867,148 barrels in 1913.
In some streets of Paris oil still is used as an illuminant, neither gas nor electricity having been introduced.
A new sled that can be steered has three runners, the odd one being in front, where it is controlled by a handle.
Peruvian petroleum is said to

rank next to that of Russia in its suitability for producing high-grade lubricants.
In a Pennsylvania inventor's baking pan the bottom and sides separate and can be adjusted to almost any desired size.
A water-power method for breaking down rock in masses instead of crumbling it has been invented by a German engineer.
A new kitchen utensil is an implement to be clamped to a table to remove the strings and cut string beans into pieces.
For the convenience of travelers an English firm is compressing tea into blocks that resemble American plug tobacco.
After experimenting for 32 years a New York man claims to have perfected a synthetic gold made from copper and aluminum.
The daily ration of a Japanese soldier in the field consists of three little bags of rice and a bunch of dried vegetables.
The bar which holds a new metal and cork bottle stopper in place carries a corkscrew on its under side for removing the cork.
Both Americans and Chinese are experimenting in China with American cotton seed with a view to improving the native cotton.
An electric lamp and reflector for inspecting the inside of shoes in a factory have been patented by a Massachusetts inventor.
An old idea in the history of tele-

phony has been revived by a British inventor who has patented a transmitter shaped like the human ear.
A simple wire loop to be fastened to a door jamb and locked around the necks of two milk bottles to prevent their theft has been patented.
Vienna has an automobile that can be used as a fire engine, a street sprinkler or sweeper or simply as a freight truck of six tons capacity.
For touring automobiles there has been invented a bed to be carried under the top of a car and lowered into position for use when desired.
A telescope with two parallel barrels, to permit two persons to see the same object at the same time, has been invented by a Swiss optician.
An ingenious tool has been invented to enable jewelers to remove stones from settings quickly and without injury to either stone or setting.
An observatory at Berlin holds the world's most accurate clock, which is kept in an airtight glass cylinder in the basement of the building.
A patent has been granted for a trunk for tourists inside which a person is supposed to place himself and float in safety in event of shipwreck.
Philippine government scientists are studying a shrub which grows prolifically in the islands in the belief that camphor can be produced from it.
The hand stamping machine has been improved by the invention of an attachment for sealing envelopes with staples without damaging their contents.
Bergamot oranges, which are cultivated solely for the oil obtained from their skins, will grow successfully only in one small region in Calabria.
A hot-water radiator for warming

rooms has been invented with an electric heating element in the bottom which can take current from the light sockets.
The free ends of a new English detachable rim for automobile wheels overlap and can be drawn together with a jack to permit a tire to be easily removed.
For cutting close to the lines of a pattern there has been invented a frame in which shears are placed and automatically operated as a guide follows the lines.
By authority of the Brazilian government, the railways of that country and Paraguay will be connected, providing another transcontinental line for South America.
For motion-picture theaters an Ohioan has invented an electric piano-player, controlled by the film operator to change the music to suit the character of the pictures.
Japan has prohibited the manufacture and sale of food and beverages containing wood alcohol and the sale of any article of which it forms a part unless so stated on the label.
For finding leaks in motor-cylinder tires there has been invented a box to fit over them in compartments of which is cotton that is moved by the escaping air as it passes over a hole.
A project for draining and reclaiming 1,000,000 acres of land in Egypt, work upon which has been begun, is one of the greatest and most extensive tasks of the kind ever attempted.
Pillows for use on shipboard, made of a light and waterproof material by a Maryland inventor, can be attached to a person to act as life-preservers more quickly than the usual devices.
Italian canners are now utilizing the skins and seeds of tomatoes, the former for stock feed and the latter for oil, in its crude form for soap and illumination and when refined for table use.
Several of the most common diseases including typhoid and arthritis, have been practically banished from the United States navy by the use of distilled water for cooking as well as drinking.
After twelve years of experimenting a Dresden engineer has succeeded in perfecting a rocket carrying a camera to photograph objects and places over which it passes, being returned to the ground by a parachute.

REVIVING MINE CANARIES

Oxygen Tank Provided For Birds Used to Detect Gases.
The Popular Mechanics Magazine.
Owing to the fact that canary birds are extremely sensitive to the effects of carbon monoxide, the deadly "white damp" of coal mines, they are now regularly used for detecting this gas in the workings of coal mines.
This proceeding is rather hard on the birds, as they are immediately

The Next Ten Years Belong to the Farmer

Speaking before the experimental farm superintendents recently assembled in convention at Ottawa, George H. Clark, Dominion Seed Commissioner, sounded a note which is of special interest at the present crisis in Canadian agriculture. In prefacing his address, he said: "Unfortunately farmers during the last ten years or more have been less attractive to young men of good ability and to capital than other industries in urban-centres. The problem of farm labor has been an exceedingly perplexing one and in consequence farm systems have been modified so as to require the minimum of labor for the maximum yield of net return. City industries have completely outbid the farm in the matter of labor, and it is probably true that at least one-third of city working men have had experience in farming. I would like to say to those men now that if the opportunities in the city looked brighter during the past ten years, the next ten years, in my judgment, assuredly belong to the farm, and the sooner they realize that the better for themselves and for all concerned."

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