What Science Is Doing

CHEAPER X-RAYS

Eight cents worth of electric current an hour makes a continuous supply of 2,250,000-volt X-rays in a new kind of tube announced from the Massachusetts Institute of Technology.

It appears that 1,000,000-volt rays, medicine's great luxury, are about to be put within reach of everyone.

It is small, less costly than any high-power tubes heretofore. It was made primarily to treat cancer, but with many industrial uses also planned. It is equivalent to more than all the radium now available in the world.

TREES FROM CUTTINGS

Discovery of a chemical treatment by which fir trees can be grown from cuttings is anounced by Prof. George B. Rigg of the University of Washington botany department.

He dips the slip in a special "growth compound" for a few minutes, sets it out in a greenhouse and treats it thereafter as an ordinary seedling. Professor Rigg said the process worked 50 per cent. of the time.

MAY AID PARALYSIS

Delicate surgery on a monkey's brain nerves may reveal the path infantile paralysis virus follows into man's body. Dr. Howard A. Home, a neuro-anatomist who has been working on the problem three years at Johns Hopkins University, said his study "is to test the theory that man acquires his immunity to infantile paralysis by slight attacks which progress no further than his olfactory bulb." The bulb is a clump of tissue where the nerves from the nose join before they enter the brain.

FOR MINOR OPERATIONS

A new anesthetic—"vinyl ether"—with much shorter "recovery periods" than ordinary operating room ether has been developed. For minor operations on children or infants nothing more efficacious has been discovered. Youngsters among a group of 100 tested at Children's Hospital, Boston, began "talking rationally" and wanted to "sit up" in two or three minutes after removal of the anesthetic mask.

Science Learning From Quintuplets

Doctor Declares Dionne Girls Demonstrate Importance Of Environment

The Dionne quintuplets are proving to science that environment is more important than heredity, Dr. William E. Blatz of the St. George's School for Child Study of Toronto told the Progressive Education Association's conference in Detroit last week.

"Physically and mentally they are above par," Dr. Blatz said. "Environment has made them what they are, and we are blessed to have such a fascinating experiment. It will be of inestimable use to science."

Educationists heard Dr. H. R. Stoltz of Oakland, Mich., warn parents that mental strain is the major enemy to health and happiness of children today. "Lives of children today are too crowded with extra lessons and their days are too filled," Dr. Stoltz said.

Capital Boasts New Buildings

Millions Being Spent on Federal Structures in City of Ottawa

Buildings costing $2,967,457 have been erected in Ottawa by the Dominion Government since the first of 1935 and additional buildings now under construction will cost $4,046,500, according to a return tabled in the House of Commons in answer to A. B. Hyndman, Conservative, Carleton.

New Supreme Court Edifice

Cost of the new Supreme Court Building, including terraces, is estimated at $3,360,000 and the new city post office building $686,-500.

Buildings already erected since the first of 1935; Justice Building, $1,365,811; postal terminal, $886,-025; Royal Canadian Mint Refinery, $459,088; tailing disposal building, $24,860; industrial minerals and ceramics laboratory, $137,786; ore dressing laboratory, $93,887.

Many people were given first aid treatment when 120,000 packed Ibrox Stadium in Glasgow, Scotland, for a football game, the attendance being 26,000 above the ground's previous record.

Cuba shipped nearly three times as much tobacco to Spain last year as in 1937.

Toronto's Giant Castle, Casa Loma, Took Three Years To Build

The Stone Turrets of the vast baronial home "Casa Loma," built by Sir Henry Pellatt, grand old Canadian, rise above Toronto at the crest of a hill. It took three years to build and cost nearly $1,500,000. Meeting with financial reverses, Sir Henry had to part with the castle in 1923.

WOMAN AGED WITH SCIATICA

Now Praises Kruschen

When sciatica attacked this woman six years ago, she couldn't move without great pain. Treatment after treatment failed to help her. She tried Kruschen and got quick relief.

"Six years ago, I suffered terribly from sciatica,' she writes. "I tried everything, but to no avail. Then I took Kruschen Salts. The first few doses gave quick relief. At the end of a few weeks my sciatica had gone. Now I always begin the day with a pinch of Kruschen in a glass of water. I live a strenuous life, being widowed four years ago, and having a son to keep. I run a boarding-house, rise at 6 a.m., and retire at 11 p.m. I am 52, but everyone says I look 32—thanks to Kruschen Salts."—(Mrs.) F.E.R.

The severe pain which is characteristic of sciatica is often due to needle-pointed uric acid crystals in the sheath of the great sciatic nerve. Two of the ingredient salts in Kruschen dissolve uric acid crystals. Other salts in Kruschen help Nature to expel these dissolved crystals through the natural channels.

Gardening

VINES

There is a mistaken notion that clinging vines will harm masonry. In England where houses and the churches have been so covered for centuries such an opinion is ridiculed. On stone or brick or stucco walls, they will do no damage and their foliage keeps out oppressive heat in Summer because the wall is always in the shade.

SWEET PEAS

Sweet Peas must be planted very early. This plant develops its extensive root growth and upper vine structure when the weather is cool. If it does not get its feet well down into the soil, then, when the days turn hot, it is liable to wither and cease furnishing its daily quota of color and fragrance.

Planting directions are simple but important. Successful gardeners advise a trench, dug at least a foot deep, filled within two inches of the top with rich soil, mixed up with well rotted manure or old leaves. Seed is planted just as early in the spring as possible, about an inch or two deep. Rains will wash more soil into the trench, filling it up gradually and thus adding further to root growth.

When the upper plant starts to develop it will be necessary to supply some climbing support in the form of brush, strings or chicken wire.

VEGETABLES

The smaller the amount of space available for vegetables, the more intensive should be the production.

For very small vegetables like lettuce and radish, the rows 12 ins. apart will be sufficient. Beets, beans, carrots, peas and spinach need at least 15 inches between, while potatoes, corn and staked tomatoes must have a couple of feet or thirty inches. Space may be saved with the latter type if something quick maturing such as lettuce, and spinach are planted in between. The bigger things will not need the full room at first and by the time they do, the early crops will be out of the way.

Tender vegetables are those that are grown quickly, therefore the experts force theirs along with a chemical fertilizer, cultivation and, if possible, water.

All civil aviation activities in Rumania have been placed under control of the Ministry of Air and Marine.

Here and There WITH THE BOY SCOUTS

There are 460,234 Boy Scouts in Great Britain and Ireland at the close of 1938. The census showed 58,891 Scouts within the London area.

The successful raising of a fund of 250,000 pounds toward endowment of Imperial Headquarters of the Boy Scouts Association was announced by the President of the General Council, H. R. H. the Duke of Connaught, at the annual meeting in January.

It may not be generally known that the collapse last winter of the famous Honeymoon Bridge over the Niagara river produced a free library for the village of Queenston. When the great ice jam occurred, and attracted throngs of visitors, Rover Scouts of the heroic community pitched a tent at the scene, borrowed a stove, and sold "hot dogs." In a few hours they netted a tidy sum of $125. And with this fund they turned their "den" into a library, with shelves, tables and standard library record equipment; and at its formal opening displayed a selection of some 700 volumes. Books were secured from various sources, chiefly as donations. Rover Scouts in uniform act as librarians at stated hours.

Young European refugees finding asylum in English homes are being invited to join local Boy Scout troops, or special troops in refugee camps. The Southeast Lancashire County Council is sending Scouts to personally invite each refugee youth arriving in that area to become a member of the nearest Scout unit.

That no one ever "muddled through" anything to success, notwithstanding the old British tradition, was a declaration of His Excellency the Governor General, the Lord Tweedsmuir, Chief Scout for Canada, addressing the annual banquet of 1,200 junior Scout leaders and guests at Montreal.

"I do not believe it," stated His Excellency. "Nobody ever muddled through anything. In the Great War we muddled at the start, and stuck fast in the mud. We won in the end because we had learned to use our brains better than our opponents. Today's problems will never be solved by unstable, clever people with quick brains and nothing else. But neither will they be solved by honest stupidity. Character is a most important thing in life, but it must be illumined and directed by intelligence."

Modern Etiquette

BY ROBERTA LEE

1. Would it be proper, as an introduction, to say: "Mr. Marshall, this is Miss Wilson"?
2. Should the wedding rehearsal be held several days prior to the wedding?
3. When calling to see a friend who is ill, and one is not permitted to see him, is it all right to write a short message on one's card?
4. What should one say, when talking with an acquaintance, and the latter makes some statement with which one heartily disagrees?
5. Isn't it the privilege of a guest to stay out of some game at a party when he thinks the game is too childish and silly?
6. Is it permissable to use one's handkerchief at the table?

Answers:

1. Reverse the names. The man should be presented to the woman. Say: "Miss Wilson, this is Mr. Marshall."
2. No; it is customary to have the rehearsal the day or evening preceding the wedding.
3. Yes.
4. Merely say: "No. I do not agree with you. I think, etc." However, one should do this pleasantly and avoid provoking an argument.
5. No. If a guest cannot enter with zest into all the games, he should not go to the party; nor will he be very popular.
6. Yes, if necessary, but it should be used as inconspicuously as is possible.

Kirkland Lake Baby Capital

Gold is not the most valuable product being produced in Kirkland Lake, Reeve R. J. Carter, of that municipality said last week. "Of far more lasting benefit," he said, "is its production of young Canadians.

Highest In Dominion

"We have, I believe, the highest birth rate in the Dominion—38 per thousand—and one of the lowest death rates—9 per thousand," he said.

With a population of 23,000 Kirkland Lake has twice as many live births a year as Niagara Falls, of the same population, and more than either Brantford with its 30,-000 population, or Kingston with 25,000, Mr. Carter said.

Canadian National Railways Revenues

The gross revenues of the all-inclusive Canadian National Railways System for the week ending February 28, 1939, were $3,-547,323, as compared with $3,-622,202, for the corresponding period of 1938, a decrease of $74,879.

REUNION of BRITISH FAMILIES

We are prepared to advance passage money (*without interest or other charges*) to British people desiring to bring out to Canada their wives, families, relatives or friends.

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Toronto
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Issue No. 11—'39

Wasteful Practice

Improvement in seed quality is to no avail in agriculture if some producers retain the idea that the land is an "inexhaustible reservoir of plant food," W. T. G. Wiener, of Ottawa, secretary treasurer of the Canadian Seed Growers' Association, said in an address before the Ontario Crop Improvement Association.

"If we continue to grow weeds by the millions of tons annually, what hope is there of bettering agricultural conditions by use of good seed alone?"

He described present production practices as "extremely wasteful."

Natives of South Africa are being made aviation-conscious by giving them free flights.

HAVE YOU HEARD

A post office inspector, on his annual round, called at the little post office of Mudville, which was run behind a few barrels and sacks in a grocer's shop.

The slipshod way it was managed surprised him.

"Look here," he said angrily to the shopkeeper-postmaster, "You're going to hear about this when I send in my report!"

The shopkeeper disappeared behind the barrels, and a little while later emerged with a small box which contained some stamps and coppers and two small exercise books. He turned them toward the inspector.

"Here," he said, "take your old post office and get out!"

"But, my good man," said Mrs. Smith, dubiously, to the tramp at her door, "your story has such a hollow ring."

"Yes, ma'am. That's the natural result of speaking with an empty stomach."

Some people were visiting a couple, and happened to mention their dog, a big mongrel.

"He's just like one of the family," said the pup's proud mistress.

"Which one?" asked her hostess.

Kitty: "It's five years since I last saw you. You look lots older."

Kate: "Really, my dear? I don't think I would have recognized you either if it hadn't been for the coat."

You can't stump film folks. They'd hired a Red Indian tribe to give the right background to a Wild West picture, and wanted a pow-wow scene, with the braves speaking their native tongue.

But none of them knew it. They could only speak English. "All right," said the film man, "speak English." Then, after the pow-wow, they reversed the sound-track—and now it sounds like real Redskin talk.

Anyway, picture-goers will take it as "read."

Mother (to daughter): "Why don't you yawn when he stays too long? He'll take the hint and go."

Daughter: "I did, and he told me what beautiful teeth I had."

Low Priced Shares

offer large profit possibilities with risk of little money.

Fortunes have been made following depression periods by purchasers with ability to recognize bargains, and courage to buy in times of mass fear.

ARJON—Adjoins Kerr Addison. Not working.
PELANGIO—Adjoins Chesterville. Not working.
BARBER LARDER—Under active development. Midway between Kerr Addison and Omega.
MARTIN BIRD—Actively developing ore. Located in southern Larder Lake.
JOLIETTE—Thousand acre property adjoining Noranda and extending northward toward Waite Amulet. Work under arrangement.
QUEBEC VIKING—Large property to west of Noranda. Diamond drilling.
ROUYN REWARD—Owns favourably developing property in Montbray township, Quebec.
LAR-ADD—Located between Barber Larder and Cheminis in Larder Lake District. Inactive property.
NEWROY—Owns three properties, one in Opeepeesway, Ontario, and two in Quebec. Active development season planned.
TOVARICH—Inactive property west of Omega, Larder Lake.
ORPIT—Large property thirteen miles southwest of Hollinger. Under development by Pioneer Mines.
CROWSHORE—Property adjoins Albany River. Inactive.
LACOMA—Owns two large properties in Quebec. Inactive.
EAST LACOMA—Owns two large properties in Quebec. Diamond drilling property adjoining Canadian Malartic.

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How Can I?

BY ANNE ASHLEY

Q. How can I use sheets that are too worn to be used as bed covering?

A. They can be made into pillow slips. Take the width of one out of each corner. There will be a seam on each side which makes the hem, and it will take only a few minutes to finish on the sewing machine.

Q. How can I give a brilliant shine to cut glass?

A. A little bluing added to the soapsuds in which cut glass is to be washed will produce a sparkling effect.

Q. How can I take away any disagreeable odors in the house?

A. By sprinkling ground cinnamon on top of the range. It will leave a pleasant aroma.

Q. How can I soften the hair?

A. After washing the hair, try adding a half cup of vinegar to the rinsing water. It will soften the hair and give it a pretty sheen.

Q. How can I remove an ink stain from a carpet?

A. Wet the stain with sweet milk, then sprinkle on salt. Let it remain for two or three hours, and follow by washing with clear water.

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BABY CHICKS

JAS. RUSSELL, CHARING CROSS, Ont., bought 164 Bray New Hampshire Chicks last season. Cockerels dressed 1¼ to 1½ pounds each at 9 weeks and 2½ to 2¾ pounds each at 15 weeks. Bray Cockerels are first class meat producers. Order your Bray Chicks now. Bray Hatchery, 130 John Street North, Hamilton, Ontario.

OUT OF 164 BRAY NEW HAMPshire chicks, bought last Spring, James Russell, Charing Cross, Ont., lost only 2. By the first of August, at 6 months, 82 pullets were up to 70% production. Heavy Fall production spells extra profits. Bray Hatchery, 130 John Street North, Hamilton, Ontario.

BADEN WEEKLY STARTED CHICK Specials. We offer the following for immediate delivery only. Standard Leghorn Pullets, 2 weeks, $21.95, 3 weeks, $25.95; New Hampshire Reds two weeks, Mixed $12.50, Pullets $19.95, Cockerels $10.75. Three weeks $4.00 more. Baden Electric Chick Hatchery, Limited, Baden, Ontario.

COULD A SMALL MANUFACTURER make and sell a car as good as Ford at Ford prices? Of course not. Our large production combined with our policy of only selling direct by mail, not through agents, enables us to sell our 1939 chicks at the lowest prices ever quoted. Grade A Heavy Breeds $11.00, Pullets $18.00, Cockerels $8.00. Leghorns $10.50, Pullets $22.00, Cockerels $3.00. Extra Profit, Special Mating grade Started Chicks slightly higher. Free Catalogue. Tweddle Chick Hatcheries, Limited, Fergus, Ontario.

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