

Rays From Lamp Can Kill Germs

By New Invention, Infection From Operations Is Reduced To a Minimum

A new lamp whose beams protect person against catching the other's cold was announced at a meeting in New York last week of the American Institute, New York's best scientific society.

The first installation is at the telephone company at Sufferin, N.Y., was described as a form of ultraviolet light to purify air and that man touches, without hurting his eyes.

In the bank window the beams in a curtain of bluish light falling on a long, horizontal, overhead of mercury vapor. The curtain between teller and customer's desks are instantly sterilized. The kills bacteria in less than a second.

Rays also kill germs on the surfaces of hands passing through the window. They kill the germs on the exposed surface of the money.

This killing of the germs carried on the hands, for most of the infectious diseases, more important than utilizing the air. The new light has been in the Sufferin bank a month, at that time, officials said no irritations of eyes had been noticed.

New Zealand Plans for Future Slumps

Premier Is Ready for Them When They Come — Wage Rates to Be Maintained.

Michael J. Savage, New Zealand's Prime Minister, is ready for future depression.

He has a plan of action all worked out. It is largely a problem of money, he says, and the Government determined to base New Zealand's standard of living will be protected by maintaining wage-rates of employment and protecting the incomes of farmers.

There will be no cutting of public programs on the score of economic and improved social services maintained. The Premier also will not hesitate to use public money to bolster prosperity if the depression arrives.

He announced that legislation will be introduced to Parliament whereby pensioning scheme will be applicable to those of statutory age who have 10 years' residence in New Zealand.

He also announced any slump in New Zealand, says Mr. Savage, since December 1935, unemployment has increased from 57,000 to less than 60,000. Private income has increased 36 per cent. in two years.

Antitoxin Treatment Used

Men Inhale Fumes, Avoid Painful Injections

A new method of administering antitoxin to men suffering from diphtheria is being used. The British medical journal reports that 50 men in a small sealed room bathed in a fine mist of the antitoxin, a careful watch on each other's symptoms.

The men and the dose was given in a fortnight. This time men, in spite of these symptoms, which the doctors say were very big a dose, the experiment proved successful.

Tests showed the amount of antitoxin in the blood had much increased in one case by more than 100 per cent. The doctors now want the experiments with smaller amounts.

Use In A Tree

A woman of the fairy tale of a tree has a real-life counterpart in the French village of... Her home isn't so uninviting as it sounds, for activities inside the trunk.

Fifty-four feet in circumference at its base, the tree has roots in its centre, leaving a passage for the old village hall, bed, stove, chairs and kitchen utensils.

She dwells in comfort and warmth.

Slughter on Skyway

Commercial pilot has been slain by "manslaughter" by a plane at Bendix, New Jersey.

The plane, believed to be the first ever to be crashed in the air before it reached the ground, was on a flight from New York to Philadelphia. A passenger in the plane was killed.

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Claims Prior Right To British Crown

"King Anthony" Hall Says He Is Descended from Both Tudors and Plantagenets

"Yes, I am King Anthony of England. Come in, sit down and I'll light the fire."

This was the greeting given to a journalist who went to a suburban home in London, England, to interview a bald-headed, tall man named Anthony William Hall, who spends his time addressing public meetings to prove that he, and not George VI, should be King of England.

Hall, who says he is descended both from the Tudors and Plantagenets, and, incidentally, claims the crown of Ireland because his mother's name was "Eire" bases his claims on the following contentions:

James I a Changeling

1. He believes the tradition that James I, King of England, was a changeling and was actually the son of the Earl of Mar. So the Act of Settlement, establishing William of Orange on the throne of England, was invalid, for his claim was derived through his Stuart wife, Mary, and if Mary was a Mar, the claim collapses.

2. He claims that Henry VIII had a child by Anne Boleyn before he had divorced Katharine of Aragon. This child, a son, he believes, was brought up by a farmer named Hall, in Sussex, and he can trace his ancestry directly to this son, known as John Hall. The son, he claims, did not dare claim the throne from Elizabeth when he came to manhood. He adds the fact that Edward VI was never created Prince of Wales.

3. He claims that illegitimacy is no barrier to inheritance, as William the Conqueror and Edward VII both had illegitimacy in the blood, and Henry's claim as a Lancastrian, was admitted through illegitimacy.

Hall makes frequent public speeches to keep his claim to the throne alive.

Smiles and Chuckles

April fool comes but once a year, the other kind come every day.

Young Son—"Say, Dad!"
Dad—"Now what, young fellow?"
Young Son—"Nothing much. I was just fighting these pesky flies and wondering if Noah had two flies in the ark."
Dad—"Why, I guess so. They say he had two of every kind of living creature on that old boat."
Young Son—"Then, what I can't figure out is why he didn't sweat both of them when he had the opportunity."

Read It Or Not:
April Fool's Day is called:
Cuckoo Day in Portugal.
Fop Day in Holland.
Fish Day in France.
Joke Day in Japan.
Joke Day in Russia.
Boob Day in Spain.

India Has Special Home For Snakes

BOMBAY. — Active in health research of all kinds is the Haffkine Institute of this city, which in recent years has performed such useful work as investigating the causes, incidence and remedies of bubonic plague. One of its departments is a "nursing home" for snakes, where at present there are about 40 specimens, including cobras, vipers, kraits and echis.

There is a considerable export from India of snake venom. Cobra venom is used in relieving acute pain from cancer and angina pectoris, and that of the viper has been found effective in checking excessive hemorrhage. One problem the institute has to battle is the habit the cobra has developed of going on hunger strikes. When the proposed "snake farm" in the institute is established, the reptiles, under natural conditions, should have better appetites, and thrive and multiply. This would relieve the transportation companies of the anxiety involved in bringing snakes from the jungle to the institute.

Haffkine Institute got its name from Waldemar Mordecai Haffkine, distinguished bacteriologist, under the Indian Government, who died a few years ago.

GARDENING

PRUNING

From March until June is considered the best season for pruning, but there are a few specific exceptions. Most of these are the early blooming shrubs. These should be left until after blooming. Grapes must be pruned early in March to avoid excessive bleeding. Raspberries are pruned after the crop has been produced and then all the year old canes are removed.

The main object of pruning is to open up the centre of the growth so that sunshine and air may penetrate freely and also, of course, to produce a symmetrical plant. Naturally any dead or weak growth should be removed and also branches that rub against each other.

A HOT BED

Where a fairly large quantity of flowers or vegetable plants are to be started early indoors, a hot bed is indispensable, but where only a few of each variety are wanted, the job may be carried out successfully in a sunny window. The hot bed is usually prepared in March and simply consists of a bed of fresh horse manure, which supplies the heat, about 18 inches deep. On this, two or three inches of fine soil are placed and after the bed has heated up and then cooled down again—a matter of three or four days—the seed is sown in rows a few inches apart. The bed is protected by rough boarding along the side or heaped up earth and on top, about 10 to 18 inches above the bed, is placed a window sash well glazed and sloping towards the south. When the plants have developed their second set of leaves they are thinned out and before being transplanted outside they are hardened in a cold frame which is simply a hot bed without any heating material. The window hot bed is simply a shallow box two or three inches deep filled with fine soil, kept well moistened.

Into The Twilight

Outworn heart, in a time outworn,
Come clear of the nets of wrong and right.
Laugh, heart, again in the grey twilight.
Sigh, heart, again in the dew of the morn.

Your mother Eire is always young,
Dew ever shining and twilight grey;
Though hope fall from you and love decay,
Burning in fires of a scandalous tongue.

Come, heart, where hills is heaped up on hill;
For there the mystical brotherhood
Of sun and moon and hollow and wood
And river and stream work out their will;

And God stands winding His lonely horn,
And time and the world are ever in flight;
And love is less kind than the grey twilight,
And hope is less dear than the dew of the morn.

—W. B. Yeats.

Sulphur Acquires New Importance

In The Story of Industrial Minerals In Canada

It is not just of gold that mining men talk these days. Talk two minutes to John McLeish, Director of Mines and Geology, Ottawa, and you will find that the big advance of nowadays is in sulphur and nepheline syenite, says the Globe and Mail.

Nepheline syenite is being shipped from Ontario for use in ceramics in the United States. Anhydrite is being shipped as fertilizer to England. The Algoma Steel Corporation is opening up the old Helen Mine for iron, and the big copper and silver mines are going after the production of sulphur for use in the paper-making industry.

"Great things have been done in these fields in Canada today and there are great things yet to be done," says John McLeish.

Had been importing it from Canada for years, he pointed out, imported sulphur for paper manufacturing from Texas and Louisiana. And at the same time sulphur belching from the smokstacks of smelters blighted the countryside of mining towns in Northern Ontario and British Columbia.

Researchers went after the problem. At first they captured the sulphur from the smokstacks in the form of sulphuric acid. Now they have captured it in its elemental form both from the smoke and from pyrites. The Aldermac Mines, Noranda, was now

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Big Ben
The Perfect Chewing Tobacco

opening up for the mining of sulphur from pyrites, said Mr. McLeish.

Nepheline syenite, another of the new discoveries, is a form of feldspar, which is cheaper than the feldspar now being used in china and glass making, he said. It is being mined in the Peterborough district and now is being exported. It was the discovery of new methods of processing the rock, to get rid of its iron content, that opened up this new field in Canada, he pointed out.

Royal Winter Fair Continues To Grow

Optimistic Outlook For 1938 Show—Ever-Widening Importance In National Agricultural Scheme.

At the annual meeting of the Royal Winter Fair on March 23 when the Hon. G. Howard Ferguson was guest speaker, the directors, reviewing the past year, found ample cause for congratulation, they stated, that the Fair, now in its 17th year, gives abundant proof of a freshness and vigor to assure its permanence, and that public recognition of the annual service it performs within the national agricultural scheme continues to grow in ever-widening importance.

The last Fair was notable for extension in several departments and for consolidation of established lines of work in other departments. One of the most significant developments was the expansion to twice their previous size of exhibits of Seed and Grain. There is no doubt, the report adds, that with more suitable grain-growing seasons the Show at the Royal Winter Fair will attain truly national importance.

Signs of Healthy Growth

Expansions also were made in the Women's Exhibits and in the Dog Show, as also in the local and historic exhibits of rural activities, and a new exhibit was the revival of the Silver Fox and Mink Show. In fact, the steady improvement noted for several years past was carried forward without abatement in every department in 1937.

The growing number of American live stock owners who exhibit proves the confidence it has established, notably in the Royal Horse Show and in the cattle divisions. The directors look upon this feature as one of the best signs for the healthy growth in their institution in the coming decade.

The financial statement shows a small but satisfactory surplus for the past year.

Want Orthopedic Service Started

About 400 Infantile Paralysis Victims In Ontario Still Need Supervision

Establishment of a generalized orthopedic service throughout Ontario for the prevention of child deformities was advocated last week by Miss Greeta Ross, supervisor of nurses for the Society for Crippled Children, in addressing the annual meeting at Toronto.

Miss Ross pointed out that about 400 infantile paralysis cases still needed supervision and it was in this connection that she expressed the hope that some day orthopedic service would be created to serve the whole of the Province.

Dr. Fred H. Logan, retiring president, outlined the work of the society during the last epidemic calling Ontario's hardest hit areas Toronto, London, Port Colborne, Barrie, Brantford and Ottawa. The society had built 400 bed-reading tables for crippled children, distributing most of them free of charge, asserted Dr. Logan.

Delegates approved the motion of Dr. E. C. Jones, Chairman of the Prevention Committee, to urge universal pasteurization of milk throughout Ontario as a means of disease prevention thus reaffirming their resolution made in 1934.

During 1937, 4,492 children were cared for by 165 Ontario service clubs reporting to the society, it was announced.

Auto Radio Warns Of Nearing Train

New Invention Causes It To Blare A Warning of Approaching Danger

A red light will flash on the dashboard and the auto radio will blare a warning of trains approaching grade crossings with a new radio invention described last week at Gary, Indiana.

Designed to work in autos that are within the danger zone when a train approaches a crossing, the device signals the auto dashboard at the same time that it starts the usual crossing lights and bells.

The device, Clauson, one of its inventors, explained, consists of a small radio transmitter placed at grade crossings and actuated by approaching trains as are warning bells and gates. A wire is strung from the transmitter to a distance of about one-quarter mile along the road on both sides of the crossing.

Waves emanating from the wire within a 100-foot radius are picked up by a mechanism installed in auto radio receiving sets. The pickup in the auto radio can be set to operate at varying distances from a crossing. It operates only when a train is approaching. Even if the auto radio is playing music, the warning signal will drown out the harmony, said its inventors. Installation of the red warning light on the dashboard can be optional.

The pickup, it was said, could be built into radio sets for from \$2 to \$4, and the crossings transmitters could be installed for small cost.

for COUGHS

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Issue No. 14-'38

B-D

Insect Could Not Travel That Fast

Scientist Devotes Time to Debunking Deerfly Speed of 800 Miles An Hour

The speed of the Deerfly—which scientists have called the fastest thing alive—was reduced from its 800-mile-an-hour record to a mere 26 in experiments announced in Science by Dr. Irving Langmuir.

Dr. Langmuir went into his New York laboratory and made imitation deerflies which flew with precision equal to that of his chemical experiments which won him the \$50,000 Nobel Prize. He calculated mathematically what would happen with a deerfly at 800 miles an hour and the effect was terrific.

Terrific Wind Pressure

The wind pressure against the fly, he found, would be eight pounds a square inch, probably enough to crush the insect. It would take one-half horsepower a second for the fly to keep up the speed.

The fly would have to burn up 1 1/2 times his own weight every second to produce the energy needed. And, if a deerfly flying 800 miles an hour, hit a human being in the face, the fly would penetrate deeply into the flesh.

Eagle Keeps Record

With these mathematics out of the way, Dr. Langmuir swung imitation deerflies on the ends of threads at measured speeds ranging from 13 to 64 miles an hour. They were against a good white background for clear seeing.

At 26 miles an hour, the Nobel winner reports, the flies were "merely a blur." At 64 they were invisible. He concludes that 26 miles is close to the correct speed.

This leaves the highest living speed record at present to the eagle, with about 180 miles an hour actually measured during a swoop.

Says Resources Not Boundless

Mine "Depletion" In Canada Is Explained to Engineers

Mining engineers are growing aware of that liability known as "depletion," Hon. Michael Dwyer, Nova Scotia's Minister of Mines, told the annual meeting of the Canadian Institute of Mining and Metallurgy, meeting at Toronto.

"It is with considerable appreciation that your president finds it possible to record now, an observation that would not have been possible a few years ago, that is, the growing awareness by mining engineers of that liability known as depletion," Mr. Dwyer said.

Mining More Low Grade

In mine after mine, he said, it was found that the leaner ore was being stopped and the richer ore conserved. By this policy ore reserves had been increased by millions of tons. At the same time mining companies had maintained dividend payments and ensured longer continuity of production and employment.

"Notwithstanding the increase in the price of the gold ounce, which would permit larger profits from high grade ore, more and more low grade ore is being mined," he said.

Exploration Limited

The question of depletion was important because Canada's mineral resources were not boundless. Mining engineers recognized the fact that geographical limitations of exploration were very definite.

Phenomenal growth and prosperity of the industry in Canada was due to the intensive exploitation of the nation's immense mineral resources and if this prosperity was to be maintained "we must not only take stock of our known ore bodies, but increase the facilities for prospecting and geological exploration, encourage the search for new deposits and strive for ways and means of extending the life of our present mines."

Trite Remarks

Father (to teen-age son) — Don't stay out late.
Mother (to teen-age daughter) — Mind what you're doing.
"How's chances for a little kiss?"
"I'll bet you say that to all the girls."
"Can you spare a dime for a cup of coffee?"
"Is it cold (or hot) enough for you?"
"Whose business is it?"
"How much for the old bus?"
"Is that the best you can do?"
"How about a few rubbers of bridge?"
"I haven't got a thing to wear."
"I know it's none of my business, but—"
"What you need is more exercise."
"Make it snappy."
"You and who else?"
"Wife (to husband)—"Can you let me have a little money till pay-day?"
"Husband (to wife)—"Do you think I'm made of money?"
"I'd like to see what she looks like with her ear what off."
"Would you care to subscribe?"
"Aw, Mom, you're old-fashioned."
"Gimme."