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PREVER ... UL'D BE

Wyn-Mayer present once most exquisite stories...

MARCH ... EDWARD

Smiling Through

PLUS ... LOWELL THOMAS NEWS and "SILLY SYMPHONY"

TODAY—TUESDAY—WEDNESDAY

DAILY 3.00—7.00—9.00 P. M.

MATINEE PRINCE EDWARD EVENING

16c - 27c 27c - 33c - 38c

Science Makes Its Television Come True

When, Not If, Is Question Engineers Work On Now

Iconoscope Is Being Put Through Broadcast Test

BY GEORGE A. WIEDA
NEA Service Staff Correspondent

NEW YORK, July 10—Twelve hundred feet above the sidewalks of Manhattan a new industrial giant is being born.

At last this most spectacular of modern scientific marvels is a sure thing. For 75 years the secret of television eluded the most assiduous research. Then Dr. Vladimir Zworykin, ace inventor of the Radio Corporation of America laboratories at Camden, N.J., perfected the iconoscope, a device astoundingly ingenious that it removed at one stroke every obstacle to the technique of transforming pictures into electrical impulses, and their reconstruction by a receiver.

As soon as the new television giant doffs its swaddling clothes you will be able to sit in your home and witness any spectacle that is within reach of the iconoscope, the electric eye of the television camera—an eye keener, more perceptive than the most perfect human eye, one that cost nearly \$5,000,000 to develop.

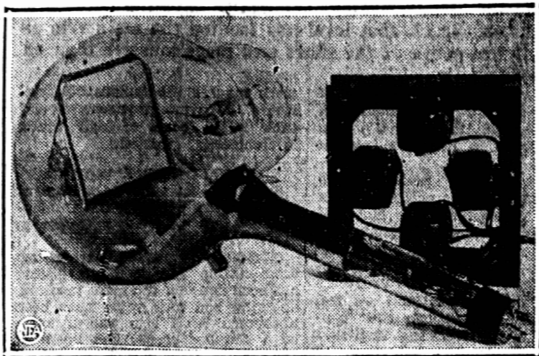
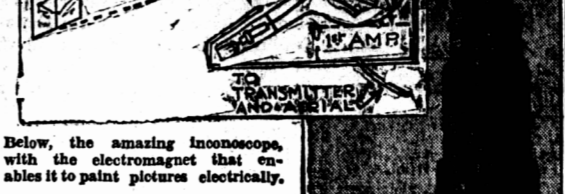
How soon will you be able to install a television receiver in your living room? That's the question to which engineers seek the answer in a lofty laboratory atop the Empire State building. In a carefully guarded studio they labor in secret to find out how well the iconoscope system works under actual broadcast conditions. With a 10 kilowatt transmitter, operating on a six-meter wave band, they are broadcasting pictures that can be picked up only by the experimental receiving sets installed at selected points in the metropolitan area.

May Be Five Years Away

These engineers haven't any more idea than you have about how long it will take to get rid of the "bugs"—the electrical and physical difficulties—that broadcast conditions may reveal. Until the bugs are eliminated, there'll be no television on the market.

The less optimistic engineers put the time required for perfecting the apparatus at four or five years. The hopeful ones say perhaps a year.

The only problem now is how this new invention will act when it is put on the air—what effect skyscrapers, vacuum cleaners,



Below, the amazing iconoscope, with the electromagnet that enables it to paint pictures electrically.

casters and curling irons will have on radio waves put on the air under the high power required to drive the waves across your roof tops to your antenna.

A fund of \$1,000,000 is available to check and double check the new television system, whose future will be decided by the results obtained in the use of about 100 test receivers. When satisfactory reception under generally average conditions is regularly maintained, the receivers will be made available to the public, say the sponsors, and a new era of entertainment and enlightenment will be under way.

New Principle Employed

The iconoscope is a huge bulb in which is mounted a large rectangular target, whose surfaces is a



light-sensitive mosaic composed of some 70,000 cells. At the bottom



second—which means that that entire surface of the target is sprayed with electrons 30 times a second. About twenty pictures a second flash on the screen to give motion pictures.

Now, every time an electron strikes one of the cells, it creates an infinitesimal electric current. Since 70,000 cells are affected 20 times a second, that means there are 1,400,000 electrical impulses emanating from the target every second.

While this is going on, the lenses of the television camera focus the picture—it may be a football game, a theatrical scene, political speech or a moving picture—on the target; and because the 70,000 cells are light-sensitive, the amount of light falling on any cell determines the intensity of the current developed by the electrons falling on it. In this way, the lights, shadows and middle tones of any scene are translated into electrical impulses.

Again Depends on Electrons

At the receiving end, the kinescope reconstructs the transmitted picture from the 1,400,000 impulses per second, by bombarding a fluorescent screen with electrons, from another gun whose bullets are sprayed across the surface in synchronization with the iconoscope. A picture about 8 by 10 inches in area results.

According to RCA officials the greatest handicap to television lies in the need for transmitting long waves, so far as is known now, these waves, which cannot be seen or "received" beyond the horizon. That imposes a limit of about 30 miles broadcasting radius on television. As yet no wire facilities have been created that will make possible chain transmission of iconoscope impulses by landlines. The new co-axial cable that is being tried out may overcome this difficulty.

The Best Mystery of the Year!

A novel treat for lovers of mystery and lovers of thrills!

Try and guess the solution of the surprising mystery that baffled 20,000 witnesses who saw the murder! Never such grand thrills and laughs!

MOONLIGHT MURDER

CHESTER MORRIS - MADGE EVA - LEO CARRILLO - FRANK MENON

PLUS SHORT SUBJECTS

TODAY—TUESDAY—WEDNESDAY

DAILY 3 - 7.00 - 8.45 P. M.

Matinee 11-27c Evening 27c - 33c

CAPITOL

Old Spain Specials

Cold Ham, Potato Salad or Vegetables, Radishes, Rolls, Butter, Fresh Strawberry Pie, Tea, Coffee, Milk—35c.

Cold Pork, Lettuce, Tomato Salad, Mustard Pickles, Radishes, Rolls, Butter, Strawberries and Cream, Tea, Coffee, Milk—35c.

Steamed Clams with Melted Butter, Fresh Rolls and Butter, Tea, Coffee, Milk—25c.

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Impromptu Praise or Song of "The Garden of The Gulf"

(By F. H. MacArthur)

Some places may boast of their wonders
Which poets have pictured most fair,
But I know a land more bewitching—
An island more beautiful, rare.

Its red-colored bosom enchants me,
And its streams sing sweet songs to my heart;
The forests they whisper sweet secrets,
Mother Nature alone can impart.

The beauty of each fragrant blossom
Smiles through the tears of the day,
Adds color and glory to sunshine
That pushes the dark clouds away.

The songs of the birds fill my bosom
And drives from my heart care and pain,
And the shy graceful rose by the wayside,
Brings memories of childhood again.

Too short I shall gaze on the beauty
Of friends that are lovely to see—
Forget-me-nots, daisies and roses,
When snow drifts shall hide them from me.

Oh, soon shall the songs from the forest
Lose all their melodious rings,
When time calls the old dying summer,
And bears her away on his wings.

TABLOID

Remember that rubber sponges will soon perish if left to dry with soap in them, so always rinse them thoroughly, first in warm and then cold water.

The Central Guardian

This column is reserved for news of local interest but advertising of a novel nature may be inserted at 4 cents a word strictly payable in advance.

DR. T. E. E. ROBBINS' dental office will not be closed this summer as previously announced. L-6030

CONFEDERATION LIFE INSURANCE. L-6798-7-12-312.

GRASWELL FOR PHOTOGRAPHS. L-3494-5-28-4f.

PRODUCTION in the ranch means profits in the Bank—Insist on B-B Brand Fox Feed.

WHITE FLANNEL COATS \$6.95 at R. P. Simpson's. L-5986-7-11-11.

THE HIGHLANDS. Dance Wednesday night, Al Breckinridge's Orchestra. L-6914-6-Mon-Tues-4f.

GENERAL ROYALTY SCHOOL—Exams and prize list. Prize for leading Grade IV Billy Agnew should have read Betty Agnew, and first prize in Grade III was awarded for Arithmetic to Jackie Spencer.

EXHIBITION PRIZE LIST now being mailed to all former exhibitors. We want as wide a distribution of them as possible, and will thank anyone having an interest in the Provincial Exhibition to send for free copy. This year's Prize List is the best in Exhibition history. Write today for your copy. J. W. Boulter, Secretary, Provincial Exhibition Association. L-5947

EXHIBITION ENTRIES FOR LIVE STOCK—To comply with the request of the Live Stock Branch, Ottawa, all Exhibition entries in the Registered Classes should be made with the Secretary on or before August 1st instead of August 4th. Get your Registration Certificates in order at once as the regulations set out in the Prize List will be strictly followed. J. W. Boulter, Secretary, Provincial Exhibition Association. L-5983

WOMEN'S INSTITUTE—The Broadbent Rural W. I. met at the home of Belle Nicholson, June 10th. There were 7 members and 6 visitors present. The meeting opened by singing "Should Old Acquaintance Be Forgotten," followed by "The Creed" \$3.00 was voted for the Library. The School and Sick

committees gave their reports. New Committees appointed were School Mrs. J. J. MacLeod, and Mrs. Angus Gillis Sick; Misses Luella Todd and Margaret MacDonald. Next meeting to be held at Mrs. Alex. O. MacDonald's on July 8th, 1936.

NORTH TRYON INSTITUTE—On the evening of June 30 members and friends of North Tryon Women's Institute met at the spacious home of Mrs. Wilfred Inman "Westview Lodge", in honor of Doris Warren who is severing her connections with the district. A very pleasant evening was spent in social intercourse, games and contests. Ice cream and cake were served by the hostess, assisted by several members. At the close of the evening, Mrs. Inman very graciously expressed general respect to Miss Warren's departure. After singing "For She's a Jolly Good Fellow" and "God Save the King". The gathering dispersed at a late hour.

EXHIBITION PRIZE LIST 1936—The Exhibition Prize List for 1936 is ready for distribution. Swine breeders will be interested to note that there is a Market Class for Single Bacon Hog Judged on Rail. Exhibitor will be allowed only one entry. Dressed weight 140-170 pounds, for which ten prizes are offered. 1st prize \$10.00. L-5949

Weekly Press Association In Convention

(C. P. By Guardian's Special Wire)

WINNIPEG, July 11.—The newspaper editor occupies the first place in his community as an inventor. John L. Love of Toronto told members of the Canadian Weekly Newspapers' Association here today.

Addressing the delegates at the second session of the 17th annual convention, speakers dealt with problems of the editorial page and laid down the challenge to forget prejudice in a judicious utilization of the power entrusted them.

A resolution presented at the afternoon session urged the Dominion Government to adopt the practice of printing voters lists in the localities in which voters reside.

Herman Rice of Huntsville declared there could be evolved in Canada a type of government which would improve the national administration. All that was necessary to bring this about, he said, was the combined exertion of the weekly press of the Dominion.

Valuable Addition To Equipment Of P. E. I. Hospital

Through the efforts of the Whole Club there has recently been added to the equipment of the Prince Edward Island Hospital the most modern type of incubator for the treatment of premature babies.

This incubator which was designed by an internationally known specialist, Dr. Julian Hess of Chicago, embodies in its construction the principle of a water-jacketed bed. The incubator consists of an inner and outer chamber. The inner chamber, which accommodates the infant, is surrounded by a sealed outer jacket that contains water held at a constant temperature by means of a specially constructed electric unit and rheostat.

This apparatus, which is the only one in the Province, will no doubt be the means of saving the lives of many premature babies. The thanks of all interested in the hospital are due the Whole Club for their untiring efforts in raising sufficient funds to purchase this incubator and present it to the hospital L-6047-7-13-11.

Kensington, P. E. Island.
Dated at Summerside this fourth day of July, A. D. 1936.

LEONARD J. PICKERING, HEATH STRONG, Executors.
GEORGE A. WEBSTER.

L-6042-7-13-11

GOOD FOR DAD!

Timothy Hay—Yes, I've seen a few bad crop years in my time, too. One year our string beans were so poor the crop didn't even pay for the strings.

Al Falis—That's nothing, Tim. In '34 our corn was so bad that my dad, who had a very poor appetite,

ate fourteen acres of corn at a single meal.

Lighthouse Champ Beats Max Marek

(A.P. By Guardian's Special Wire)

CHICAGO, July 10.—Winning every round, John Henry Lewis of Phoenix, Ariz., world's light heavyweight champion, administered a one sided drubbing tonight to Max Marek, of Chicago in a 10 round non title bout in Comiskey Park, home of the Chicago White Sox.

Carburetor Trouble?

Ask us! We represent the following carburetor manufacturers:

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With factory training and clinical training, together with clinical charts, factory specifications, we can settle your carburetor problems. Bring your carburetor troubles to us.

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L-6035-7-13-16

ADULT EDUCATION
Lecture By **DR. M. M. COADY**

—AT—
PRINCE OF WALES COLLEGE HALL, CHARLOTTETOWN
WEDNESDAY, JULY 15, AT 8.15 P. M.

Dr. Coady, director of the Extension Department at St. Francis Xavier University, Antigonish, N. S., has recently returned from a three months tour of the United States, lecturing on adult education under the auspices of the Carnegie Corporation.

Dr. Coady is an eloquent and forceful speaker, and his message should be of vital concern to all who are interested in the adult education movement in Prince Edward Island.

A large attendance particularly from the rural districts is solicited. Dr. Coady's lecture is presented under the auspices of the Adult Education League of Prince Edward Island.

All are invited to attend.

ADMISSION: FREE

L-5952-7-10-13.

PERSONALS

Miss Agnes Bradley, St. Teresa's has returned to her home after having spent a week in Rustico, the guest of her friend, Freda Peters.

Miss Helen Driscoll, Mt. Herbert, left Saturday morning for Ottawa, where she has accepted a position in the Civil Service. Her many friends wish her every success.

Dr. and Mrs. Nicholson, and daughter Evelyn arrived from Montreal and are in residence on Ambrose Street.

Miss Ola McLean, granddaughter of Mr. A. A. McLean, and daughter of G. C. McLean is leaving on the 16th, to attend the unveiling of the Vimy Memorial.

WINNIPEG, July 10.—A mysterious black ball, which according to eye-witnesses fell hissing out of the sky like a meteorite, shattered five insulators on a power line five miles south of Carman, Herbert Cottingham, chairman of Manitoba Power

TENDERS

Sealed Tenders addressed to the undersigned, will be received up to July 17th, for Building and Delivering in Cellar, Approximately 125 tons coal from Mt. Herbert Station to Protestant Orphanage.

Lowest or any tender not necessarily accepted.

IRA M. BROWN, Secy.-Treas.
P. O. Box 324, Ch'Town.
L-6044-7-13-31.

Notice to Farmers

Prince Registered Percheron Stallion 5 years old (Raced by late Premier Lea) will fill out Balance of (Prince Baron Jr.) season at owners stables, Kensington, and will also stand at or near Freemans Simmonds Stable, Travellers Rest on July 17th and 31st.

Terms fee balance of season \$6.00 for a Foal. Mares at owner's risk.

WALTER S. WEEKS,
L-6037-7-13-11.

Commission, has ordered an investigation.

BRINGING UP FATHER

THEY ARE SIGNALS TO NOTHER THE OWNER IS ON BOARD, MRS. JIGGS.

CAPTAIN—WHY HAVE YOU RAISE FLAG UP?

SAY, CAPT—THERE'S A SLY OVER THERE SIGNALIN' BACK.

DINNY—THERE'S A SWEET YACHT OVER THERE—

I WISH I WUZ WAY TO LIKE TO SEE IT—

—By George McManus

7-13