

## FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis  
Formerly Technical Electrical Expert For U. S. Government

**Lesson No. 160.**  
**NOISES IN RECEIVING SETS.**  
The ordinary crystal detector type of radio receiver is not subject to conditions which produce local noises in the telephone receivers as is the case with the popular regenerative type of receiver employing one or more vacuum tubes. Intermittent clicks are sometimes caused in crystal detector circuits by loose or imperfect connections, but there are no locally generated oscillations and the complicated circuits which may react upon each other and produce "howls" and "squeals," local batteries not being used except in the case of carbonium or other similar crystals.

With the usual form of regenerative receiver amplification is increased by increasing the amount of regeneration so that many amateurs operate their sets with the detector tube just below the oscillating point. The adjustment is sometimes so critical that merely by placing the hand near the set thereby slightly increasing the capacity of the system the tube will pull over and start oscillating. The local frequency thus generated is sometimes just enough different from the frequency of the incoming signal that beats are set up at audible frequency and the music or voice is lost in the noise. It is obvious that the coupling between plate and grid should not be too great but should be reduced as far as possible without materially decreasing the signal strength.

In receiving systems employing multi-stage amplifiers especially those of the resistance coupled type it is very essential that great care be exercised in the arrangement of the apparatus, connections to the filament battery, and other parts of the circuit common to each stage, in order to prevent resistance coupling between the first and third or second and fourth stages of the amplifiers. This is because the voltages in each alternate stage of the amplifier are in phase and thus ready for impressing upon the grid of the second preceding tube to produce possible oscillations.

Sometimes an oscillating receiver will howl as a result of the radio frequency and audio frequency oscillations combining, but this condition only obtains when the grid circuit contains a coil of very high inductance.

When operating a regenerative receiver, a succession of clicks, a squeal or rattle indicates that too much regeneration is being used. This sound is caused by starting and stopping of the oscillations at regular intervals. The grid gradually acquires a negative charge when the oscillations first start but as the grid becomes more negative the oscillations finally die out. The grid and grid condenser then discharge through the grid leak. The regenerative effect of the tube is once more restored when the positive potential on the grid is again built up and the oscillations start again. The repetition of the above process at long intervals produces a series of clicks in the form of a rattle in the telephone, and as the interval is diminished the rattle increases to a squeal and if the adjustment is continued the oscillations may become inaudible, due to their extremely high frequency.

Local noises of the kind described where the circuit is set into oscillation due to the capacity of the hand placed near the adjusting knobs may be eliminated by shielding the receiver panel and exercising care in the construction of the set so that portions of the circuit near the adjusting knobs are as near ground potential as possible. Reproduction prohibited.

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## RECENT DEATHS

**Samuel Craig.**

After a short illness, the death of Samuel Craig occurred yesterday at the General Public Hospital, in the sixty-fifth year of his age. Mr. Craig had been employed in the rolling mills and was a lifelong resident of the city. He is survived by two daughters, Mrs. Alfred Stackhouse, of the city, and Mrs. Catherine Craig, in the United States; one brother, Mr. William J. Graham of Aledo, Ill. Under the law, a candidate must make no promises to further his election, nor to spend above a certain amount. In his statement Representative Graham declared he had spent nothing.

**G. E. Williams.**

The death of George E. Williams, formerly general secretary of the Y. M. C. A. in this city when that institution was in its first building in Charlotte street, occurred last night at his home, 347 Northcliffe street, Montreal, following an illness of more than a year. Mr. Williams was president of the Foreign Missions Board of the Congregational Church of Canada. He is survived by his wife, one daughter and several brothers.

## FUNERALS

The funeral of John Abbott took place yesterday afternoon at 2:30 o'clock from his late residence, 87 Britain street, to the St. John Baptist church, where the service was conducted by Rev. J. J. McDermott. The funeral was largely attended and relatives acted as pall bearers. The interment was in the New Catholic cemetery.

The funeral of John R. Richards took place from his late residence, 254 Charlotte street, w. e., yesterday afternoon at 3:30 o'clock. The service was conducted by Rev. C. R. Freeman, assisted by Rev. W. A. Robbins and Rev. Isaac Brindley. The interment was in a Cedar Hill cemetery.

## BURNED ORDINANCE SENATORS DEPRIVED HIM OF PATRONAGE

Washington, Nov. 20.—"Owing to the act that the senators from my state are absorbed all the federal patronage, not owing to the further lamentable act that the burned fool alleged civil

service order of the president has prevented me from naming postmasters, while it makes me responsible for these appointments, I have thought it the better part of discretion to promise nobody anything, and hence I am as virtuous as a new-born babe as far as promises are concerned. I have made none."

These were the words typewritten on a statement of the House of Representatives by Representative William J. Graham of Aledo, Ill. Under the law, a candidate must make no promises to further his election, nor to spend above a certain amount. In his statement Representative Graham declared he had spent nothing.

The average cost of a weekly family budget of 29 staple foods in some 60 cities was \$10.23 at the beginning of October, as compared with \$10.28 at the beginning of September; \$11.46 for October last year, \$15.43 for October 1920; \$11.81 for October 1917, and \$7.99 for October 1914.

For food, fuel and rent the cost for October was \$20.86, as compared with \$20.80 in September; \$22 for October 1921, \$26.46 for October, 1920; \$18.92 for October, 1917, and \$14.47 for October, 1914.

## GIRL WHO FELL DOWNSTAIRS GETS VERDICT OF \$20,000

New York, Nov. 20.—After being out twenty minutes a jury before Justice Edward G. Whitaker in the Bronx Supreme Court brought in a verdict for \$20,000 in favor of Rose McShafrey, 18 year old, of 1271 Shakespeare avenue. The girl was a tenant in the house owned by Bernard Drucker at 214 East 178th street, and on April 14, 1921, she fell down a flight of stairs, injured her head and had to be taken out of the city.

## MRS. MARGARET CHAPLIN

Mrs. Margaret Chaplin, a native of this city, who died recently in Winchester, Mass., was buried last night in the Second Congregational church in that city. The service was conducted by Rev. John E. Whitley, pastor. Mrs. Chaplin leaves her husband, one son and one daughter.

## There's Something Decidedly Homey About Slippers as Gifts

When you call to mind happy, restful evenings at home, when all outdoors is cold and dreary, House Slippers will be more appreciated, more welcome than most Christmas gifts.

These neat, easy-fitting, comfortable slippers are so reasonably priced—a real help when one would have dollars do the utmost.

**FOR WOMEN FOLK**—Dainty Felt Slippers that draw in so easily over weary feet; light blue, rose, burgundy and red—all finished in best quality felt with silk ribbon trimmings—\$2.50 and \$3.45.

**FOR MEN FOLK**—Heavy all wool Felt Slippers with felt and leather soles, plain color or plaid effects, at \$2.50, \$3.00 and \$3.25.

**FOR LITTLE ONES**—Cottony Slippers with nice padded soles; red, grey and brown, at 90 cents to \$1.25, according to size.

MAKE YOUR GIFT SELECTIONS NOW while stocks are complete.

RELIABLE FOOTWEAR AT FAIR PRICES

THREE STORES

WATERBURY & RISING, LTD.

## LOVE DROVE HIM TO SEEK DEATH

The Tragic Romance of a Man Forty-nine Years Old—Loved a Dancer.

New York, Nov. 19.—William Logan, a theatrical booking agent, forty-nine years old, shot himself for love of Graciella Palma, a dancer of Spanish extraction, twenty-two years old, who is appearing at the Hippodrome. The bullet lodged just above his heart and may cause his death. He is at Bellevue Hospital, a prisoner, charged with violation of the Sullivan law.

The tragic romance of the middle-aged booking agent, Andalusian in intensity, centered about Sixth avenue and Forty-second street. Logan's agency, in which his sister is a partner, is on the fourth floor of 17 West Forty-second street. Around the corner on Sixth avenue is the Hippodrome, where Miss Palma dances.

They met last year and the capitulation of Logan to the charms of the dancer was immediate and complete. Until a few months ago his attentions met with interesting success. He was Graciella's cavalier on every occasion. His flowers scented her dressing room. His jewels flashed upon her slender fingers.

Neither has told what happened some two months ago, but it was then that Graciella returned the jewelry and told Logan he also might take back his love. He took back his gifts under protest, but found it impossible to obey the other command. He kept up his attentions.

Affairs began to approach a crisis a few days ago. The situation was so obvious that when P. Toner McVeigh, house manager of the Hippodrome, got a tip that Logan was going to attend a matinee and drink poison or shoot himself when Graciella appeared, he took it seriously, forbade the dancer to go upon the stage and called for a detective.

Detective Fitzgerald, sent from the West Forty-seventh Street Police Station, was unable to find Logan at the show. At McVeigh's solicitation he went to the booking agency after the show with Graciella to have a talk with Logan.

They had the talk. Graciella was obdurate. She said that Logan must stop bothering her. "I'll never bother you again," replied Logan.

The detective and the dancer departed. Before they had reached the elevator Logan came hurrying after them. "Let's shake hands for the last time," he said, and they shook hands. "I won't see you again," he said, and he stepped into the elevator. Before it had reached the next floor they heard the shot. They hastened back and found Logan lying in the corridor where they had left him, a bullet hole in his coat.

## FAMILY FOOD BUDGET STILL ON TOBoggAN

Ottawa, Nov. 20.—A slight reduction in the cost of the family food budget during October, as compared with the previous month, is reported by the Labor Department. The changes, however, were chiefly seasonal.

The average cost of a weekly family budget of 29 staple foods in some 60 cities was \$10.23 at the beginning of October, as compared with \$10.28 at the beginning of September; \$11.46 for October last year, \$15.43 for October 1920; \$11.81 for October 1917, and \$7.99 for October 1914.

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## ILLINOIS TRIBUNAL REFUSES A 80-DAY STAY TO MILLIONAIRE CHICAGO COMMUNIST AND HIS FOUR ASSOCIATES

Chicago, Nov. 20.—William Bros Lloyd, millionaire communist, and four associates must go to prison in a few days by order of the State Supreme Court, to serve sentences of one to five years for violating the anti-syndicalism law. They will be locked up Monday, it is believed.

Charles W. Vall, clerk of the court, mailed a mandate for the imprisonment of Lloyd and his colleagues following Chief Justice Thompson's refusal to grant a thirty-day stay.

Since the five men have furnished sufficient bonds, they will be given a day or two in which to adjust their affairs, it is believed. The week-end may cause another brief delay, but unless evasion is attempted all the men should be in Joliet Monday.

Pardon was sought, Report. A report circulated among attorneys that Lloyd and his co-defendants would seek a pardon as soon as they reach the penitentiary. The report is said to be based on the dissenting opinion of Supreme Justice Carter, who held the law under which the conviction was obtained to be unconstitutional, and on the fact the men were convicted under wartime legislation and are therefore political prisoners.

William S. Forrest, attorney for Lloyd, pleaded. The report is said to be based on the dissenting opinion of Supreme Justice Carter, who held the law under which the conviction was obtained to be unconstitutional, and on the fact the men were convicted under wartime legislation and are therefore political prisoners.

"My client must make arrangements for the management of his \$1,800,000 estate," the lawyer argued. "No man going to prison ought to have that much money," the judge remarked, as he refused.

The chief justice's action also affects eleven communists sentenced to a year in jail, and two who were fined. The men were found guilty in August, 1920. Appeals have delayed execution of the sentences until now.

"One chance of escaping full service remains, in spite of the mandate for imprisonment. Lloyd has carried on the fight of the defendant in the Supreme Court, and although two incidents before the state court are still possible, a reversal of the state court is still possible."

Illinois authorities do not know where all of the men are, Lloyd Heth, special prosecutor, said today. They said not attempt to keep in touch with them.

"They are scattered all over the country, I suppose," Mr. Heth asserted, "but I think most of them will be found."

Lloyd and his co-defendants are accused of plotting to overthrow the government and attempting to set up a new one based on the principles of "Red" leaders in Europe. The trial was the first important one under the new state espionage act.

## HUN RAIDER COMMANDER ARRIVES IN U. S.

New York, Nov. 20.—Capt. Helmuth Von Mueck, former German naval officer who commanded the Cruiser Emden on its shipping raids in the South Pacific early in the war, has arrived here on the steamship Hannover. He said he would start a lecture tour in Chicago this week, speaking in German, and expected to be successful, as he was to discuss only the Emden's exploits, which occurred before the U. S. entered the war.

## THEY SAY C. P. R. SEEKS NO POLITICAL INFLUENCE

Toronto, Nov. 20.—E. W. Beatty, president of the C. P. R., at a luncheon given by the Lieutenant-Governor in Government House on Saturday, emphatically denied that the C. P. R. seeks or tries to exert any influence in politics, either civic or dominion. He said that "in the heat of controversy" an intimation had been made that the C. P. R. had a financial interest in certain newspapers.

"I don't know who owns your newspapers, and I can't say that I care very much," said the C. P. R. president. "But the C. P. R. has no interest in them, and not a bit of influence can or will be used to influence them on behalf of the C. P. R."

## Why Corns?

Just say **Blue-jay** to your druggist

The simplest way to end a corn is Blue-jay. A touch stops the pain instantly. Then the corn loosens and comes out. Made in a colorless clear liquid (one drop does it) and in thin plaster. The action is the same.

## Pain Stops Instantly

## LOYD MUST GO TO JAIL DESPITE PLEA OF WEALTH

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## You've Never Seen Finer Topcoats

If you think that Overcoat styles are pretty much alike—that one model is as good as another no matter who made it—come here.

We'll show you that there is a difference. All you need to do is try on a few before a mirror.

In the cut of the neck—the shape of the pocket—the drape of the coat—you'll see the difference between good style and best style.

A Fine Variety of the new winter styles have very lately arrived and now is a good time for you to let us prove that there is a difference.

"Society Brand" and other well known makes are included. \$22.50 to \$45

(Men's shop, 2nd floor.)

## Christmas Luggage For Everybody

Something in Luggage or Leather goods will fit in beautifully for any man or woman; or the boy or girl away at school.

Newest styles in most reliable kinds are showing here now. You'll find M. R. A. Values the best possible.

Hand Bags in all popular kinds. Prices range from \$3.85 to \$45

Suit Cases in real leather, black enamel, matting, and leather-like fibre . . . . . \$1.45 to \$36.50

Week-End Cases in real leather and black enamel; silk lined . . . . . \$14 to \$31.50

Trunks—In Regular sizes . . . . . \$8.50 to \$30

Steamer sizes . . . . . \$9.25 to \$26

Wardrobe styles . . . . . \$31 to \$70

Fitted Week-End Cases and Hand Bags for women or men.

Small Leather Goods including Bill Books, Purses, Shoulder Cases, Music Rolls, etc., in pleasing assortments.

(Men's furnishings, main floor.)

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## NEWBERRY HAS RESIGNED

U. S. Senator Who was the Central Figure in a Spirited Contest.

Washington, Nov. 20.—Senator Truman H. Newberry of Michigan, whose right to a place in the Senate has been a subject of long and bitter controversy, has submitted his resignation, with a request that it become effective immediately. In a letter to Governor Greenback, made public here last night, Mr. Newberry said he had been impelled to retire voluntarily because of the defeat of his Republican colleague, Senator Townsend, in the election of November 7.

The resignation brings to an end a fight which already has made political history and which it appeared would be the last of the kind in the Senate.

Mr. Newberry declared in his letter that he was resigning because of the defeat of his Republican colleague, Senator Townsend, in the election of November 7.

The plan provides for a general works committee of thirty-eight members to be elected by the men, one member for each important department. This committee would elect from among its members a small central committee of five or seven. The committee would appoint a management committee of five. The central committee of the men and the management committee, sitting together, would form a joint committee of ten or twelve members as a sort of court of last resort.

The steel workers are considering the advisability of adopting the proposed system and will meet Mr. Bischoff again on Thursday.

## AUSONIA LOSES ANCHOR

Quebec, Nov. 20.—The steamer Ausonia, which arrived from Glasgow yesterday will be held up here until tomorrow, undergoing repairs to her windlass, which was broken when she was weighing anchor at Grosse Ile. As a result of the broken windlass the anchor had to be abandoned at Grosse Ile.

## SAYS C. P. R. SEEKS NO POLITICAL INFLUENCE

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## BODIES OF THREE BROTHERS FOUND

Regina, Nov. 20.—The dead bodies of Steve, John and Nick Dutyszyn, aged seven, nine and eleven years, sons of John Dutyszyn, were found in a slough a few miles east of Verigin, Sask., on Friday by neighbors who had been searching for the children since they were reported missing on the day before. It is presumed the boys were playing on a thin crust of ice that covered the slough when it gave way and they were drowned.

## A PLAN FOR HARMONY AT SYDNEY WORKS

General Superintendent Outlines Scheme for a Joint Committee of Management and Men.

Sydney, N. S., Nov. 20.—For the purpose of bringing about more harmonious relations between the men and the management, General Superintendent W. H. Bischoff has submitted to the employees of the British Empire Steel plants here a plan intended for the better handling of the many daily problems arising out of the operation of the steel mills.

The plan provides for a general works committee of thirty-eight members to be elected by the men, one member for each important department. This committee would elect from among its members a small central committee of five or seven. The committee would appoint a management committee of five. The central committee of the men and the management committee, sitting together, would form a joint committee of ten or twelve members as a sort of court of last resort.

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## REBECCA AT THROTTLE

Young Woman is Licensed Ferry Engineer.

Prudence Island, R. I., Nov. 20.—This island today boasts the only young woman licensed ferry engineer in New England, and possibly in the country. She is Miss Rebecca Chase, of twenty-seven summers, and she rises early every morning to take her place at the throttle of the ferry-boat Harvest, connecting the island with Bristol.

That she is at home on the sea is demonstrated by her license, which grants her the right to navigate a power boat. Frequently she directs from the pilot house, handling the Harvest with the skill of the ablest skipper. Shortly after America entered the World War her grandfather, owner of the ferry, unable to obtain an engineer, called upon Miss Chase, who was an experienced automobile driver. She succeeded in passing the necessary examinations.

Miss Chase keeps her domain below decks spick and span. She believes in being a good housekeeper on ship-board as well as at home.

## The Winter Fashion Book

which is now available as are the

## Pictorial Review Patterns for December

Cutting and Construction Guides supplied with each pattern.

20 cents to 35 cents None Higher

Blouse 1389 35 cents

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