

FIFTEEN MINUTES OF RADIO EACH DAY

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

Lesson No. 141.
RADIO DICTIONARY.

Attenuation—When telephonic messages are transmitted over wires, either in ordinary wire telephony or using radio frequencies, increasing distances cause damping of the amplitude of the alternating current. This effect is known as "attenuation" and increases with the frequency with the result that in ordinary wire telephony low notes are heard louder at the receiving station than high notes. This is due to the fact that the frequencies of the sound waves from 100 to 3,000 cycles per second.

Radiation resistance—When power is supplied to a radio transmitting circuit, a portion of this power is radiated from the circuit in the form of electromagnetic waves, the remainder being dissipated in the circuit itself or in the immediate surroundings. Owing to the fact that the power radiated at any frequency is proportional to the square of the current flowing, the radiative effect may be assumed to cause a definite increase in the effective resistance of the circuit and is analogous to the energy dissipation as heat in a conductor. This apparent resistance increase is termed "radiation resistance" and is directly proportional to the square of the frequency or inversely proportional to the square of the wave length.

Watt—The "watt" is the power expended by a current of one ampere in a resistance of one ohm. When a larger unit of power is desired the "kilowatt" is employed, which is equal to 1,000 watts. Seven hundred and forty-six watts equal one horse-power.

"Duo-Lateral" Coil—A coupling coil with a type of winding in which the wires in successive layers are slightly staggered with reference to each other. The distributed capacity of the winding is small and a winding of given inductance occupies a smaller space than a single-layer winding.

Capacitively Coupled Receiver—A receiving set in which the coupling between the receiving apparatus and the antenna circuit is affected by the use of condensers. In a single form of circuit the primary and secondary coils are fixed permanently at right angles to each other, thus preventing inductive coupling. Capacitive or electrostatic coupling, as it is commonly known, does not give as sharp tuning as inductive coupling.

"Stand-by" Circuits—Circuits so arranged as to respond to a wide variety of wave lengths. An ordinary inductively coupled set used with tight coupling will give broad tuning and receive signals from a number of stations. A circuit used for this purpose, namely, to replace signals over a wide range, is also commonly known as a "pick-up" circuit.

Autodyne—"Autodyne" reception is produced in a regenerative circuit when the same vacuum tube is used as a detector and as a generator of local oscillations. In this method of reception "beats" of audible frequency are produced by tuning the antenna circuit to the incoming signals and adjusting the local oscillating circuit so as to have a slightly different frequency, the resultant "beat" being equal to the difference between the frequency of the incoming oscillations and the frequency of the local oscillations.

(All Rights Reserved by United Feature Syndicate. Reproduction Prohibited.)

ENGAGEMENTS.

Moncton Transcript—Mr. and Mrs. E. T. O'Brien of this city wish to announce the engagement of their eldest daughter, Jessie Meritt, to William Reginald McMurdo, both of this city, the marriage to take place at an early date.

Northern Light—Mr. and Mrs. Edward W. Morrison of Bathurst, announce the engagement of their daughter, Mary Gwendolyn, to John McLean Fraser, son of Mr. and Mrs. Wm. A.

SPORT WRITERS HERE

Five leading sport writers, headed by Frederick G. Lieb, president of the Baseball Writers' Association, passed

through the city Saturday enroute to Montreal. They arrived on the Arrammore from Digby after enjoying a hunting trip in the Kedgemoose district in Nova Scotia. Two moose were shot, one by Ed. Ballinger, sporting editor of the Pittsburgh Post, and the other by Sydney Mercer, sporting editor of the New York Evening World. Other members of the party were Denman Thompson, sporting editor of the Washington Star, and Irving Vaughan, sporting editor of the Chicago Tribune. The trip was arranged by the C. P. R. and all the visitors expressed themselves as delighted with the outing.

CORNS Science! not fad!

Dr. Scholl's
Zino-pads
FOR CORNS, CALLOUSES
AND BUNIONS

"Put one on—
the pain is gone"

Women's Button Boots

Made of soft Dongola kid
with Goodyear welt sewn
soles.

Price \$8.00

WOMEN'S LACE BOOTS
Made of soft Dongola kid
with Goodyear welt sewn
soles

Price \$8.00

These are carried in E
width; they have a medium
broad toe and sensible
military shape heels.

McROBBIE
Foot St. John 50 King
Street



Winter Open- ing Tuesday, October

Thirty-first and follow-
ing days.

Imported Models

from the leading
producers

MARR
Millinery Co.
Limited

RECENT DEATHS

Mrs. James Drummond
Sussex, Oct. 29.—Mrs. Drummond, widow of James Drummond, passed away this morning. Her death came as a great shock to her family as she has been in fairly good health until Friday evening when she had the misfortune to fall, fracturing her hip. She was in her eighty-seventh year. She leaves to mourn three daughters, Mrs. Corbett, of Moncton, Mrs. R. E. Smith, Hawthorne (Mass.), and Mrs. Andrew Miller, of Sussex, with whom she lived, and one son, Albert Drummond, in the west. Mrs. C. F. Stoddard, of New York, is a granddaughter. The funeral will be held Tuesday afternoon and interment will be in Kirkhill.

Frederick Smith
The death of Frederick Smith, formerly of this city, but at the time of his death living in Drumheller, Alberta, occurred suddenly on October 11. Mr. Smith was killed instantly by a large rock falling through the roof of a mine where he was at work. Mr. Smith was a native of England and came to St. John with his brother and sister when ten years of age. He leaves two brothers. The funeral was held in Drumheller on October 18.

NEW OFFICERS OF FREIGHT HANDLERS

The annual meeting of the Marine Freight Handlers' Union was held yesterday afternoon in the Temperance Hall on the west side. The meeting was exceptionally large and attended by the officers were elected for the coming year. Reports were received from the committee working on the yearly agreement between the union and the shipping federation, but, thus far, it has not been submitted for the approval of either party. William Lee was re-elected president of the union yesterday afternoon. The other officers appointed were: First vice-president, Charles Ames; second vice-president, William Price; secretary, William Williams; financial secretary, Edward McGinnis; treasurer, Joseph Taylor; marshal, James Harrington; trustees, William McAfee, Patrick Driscoll and George Burnett.

MORNING NEWS OVER THE WIRES

William LeBlanc, of Moncton, was found dead with a heart attack yesterday afternoon at the foot of the stairs in his home early yesterday morning. His money was intact and there was no suspicion of foul play although an inquest will be held. He was about forty years of age and was employed with the C. N. R. He leaves his wife and four children.

The schooner Evelyn V. Miller struck on a submerged post while entering Yarmouth harbor Saturday and sank in shallow water. Her cargo of 6,000 bushels of corn is said to be a total loss. It was found necessary to cut holes in her deck to prevent the swelling corn from bursting her open.

The First Snow.
Campbellton Graphic:—A light fall of snow, less than an inch, covered the

Amdur's Bargain Bulletin No. 20

TUESDAY MORNING ONLY
9 to 11 O'clock

Men's Negligee Shirts 79c.

These Shirts are a regular \$2.50 Line

Amdur's, Ltd., No. 1 King Square

Stores open 8.30 a.m., Close 6 p.m.,
Saturday 10 p.m. Phone Main 2400.

Tuesday Will Be the Last Day of Our Big Three Days Drive

IN THE MEN'S FURNISHINGS DEPARTMENT

Our Special Line of Men's Heavy Elastic Ribbed Wool Underwear at 90c a garment is attracting unusual interest and acknowledged to be of excellent value. Other bargains follow.

MEN'S STYLISH COLORED

Durable cloths, popular designs.
Sale price \$2.29

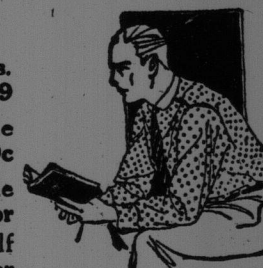
Men's Christmas Neckwear. Sale
price 69c

Men's Cashmere Half Hose. Sale
price \$3.50 pr

Men's All Wool Cashmere Half
Hose. Sale price 50c pr

Men's Hemstitched White Cambric Handkerchiefs. Sale
price Only 10c each

Men's White and Colored Border Cambric Handker-
chiefs. Sale price 2 for 25c



BOYS' COAT SWEATERS

The popular shawl style. Sale prices \$1.50, \$1.75, \$2.00

Men's Coat Sweaters. Many weights in a variety of col-
ors. Sale prices \$1.75 and \$4.00

Men's Heavy Ribbed Shirts and Drawers. Standard
makes. Special value. Sale price \$1.50 garment

Penman's Heavy Dark Clouded Wool Shirts and Draw-
ers. Satisfactory winter weights. Sale price
\$1.75 garment

Wool Gloves in grey and fawn. Special Sale price
\$1.25 pr

Wool Lined Mocha Gloves in grey and brown. Sale
price \$1.75 pr

Many other Special Values in this Department.

Men's and Boys' Mackinaw Coats

Boys' All Wool Mackinaw Coats in dark grey and mixed brown. Specially comfortable and serv-
iceable Coats for school wear At \$7.50 and \$8.50

Men's Mackinaw Coats at \$10.00 and \$11.00

Double Lined Mackinaw, with sheepskin collar at \$16.25

Men's dark grey Frieze Reefers at \$11.50

Men's Sheepskin Lined Coats in Corduroy and Whippoor at \$13.50

SPECIAL SHOWING IN THE CLOTHING SECTION—2ND FLOOR.

Inquire about the unusual opportunity we offer to buy a
HOOVER Vacuum Suction Sweeper.

Manchester Robertson Allison Limited
KING STREET GERMAIN STREET MARKET SQUARE

O. TURGEON, M. P. TO THE SENATE

Fills Vacancy Caused by the
Death of F. P. Thompson
— Five Vacancies in the
House Now.

Onesiphore Turgeon, veteran member of the House of Commons for Gloucester, N. B., was appointed on Saturday to the Canadian Senate, according to an announcement by Premier King. This creates the fifth vacancy in the House of Commons, the others being Hallifax, Megantic, Que., Jacques-Cartier, Que., and Lanark, Ont.

Three Hudson's Three Savings

So soft they will never be
taken for Electric Seal, so
freighted with black lustre
they have no equal. Priced
so low they are again in a
class apart.

The First One—Forty in-
long, very generous sweep,
large cape shawl collar and
the new flared bell cuffs of
finely bristling black suad.
Slant Pockets and brocade
Swiss silk lining. A modern
Master temporarily repriced
from \$525 to

\$435

The Second—A full shawl
collar of prize Australian
Opussum matches the flared
bell cuffs in a crowning
splendor of silver grey over
this queenly Hudson. A half
belt and patch pocket with a
blue silk lining and 42 inch
length gives it special char-
acter. So does the price
when marked down from
\$475 to

\$385

The Finale—A study in
self trimming. There is an
individual note in every line
that the mirror tells best.
The styling is of the very lat-
est, the cut of the shawl col-
lar and flare cuffs having that
elusive grace that only a
master designer can achieve.
The price changes for a day
or so from \$515 to

\$400

H. Mont Jones
Ltd.
Exclusive Fur Designers

A Brassier to wear with the new Evening or Dinner Gown, as dainty as the gown itself

A Brassier especially designed for
evening wear, flesh colored Skin-
ner's satin, cut very low in back,
so it will not show under the most
decolette of gowns, with satin rib-
bon shoulder straps, and elastic in
back. This model also hooks in
back. There are other similar
models of lacquard cloth, pure
silk striped, elastic at waist, ribbon
straps. Size 32 to 42.
Prices—\$1.85 to \$2.35

LONDON HOUSE
F. W. Daniel & Co. Head of King St.

Queen Insurance Co.

Offers the Securities of the Largest and Wealthiest
Fire Office in the World.
C. E. L. JARVIS & SON
PROVINCIAL AGENTS

I will call and get them from any part
of St. John.

I am yours respectfully,
A. TURNER HOWARD,
22 Charlotte St., City.
St. John, N. B., Oct. 29.

A CHILD FOR A CHILD.

(New York Times.)

One Charles Buckley, a San Fran-
cisco electrician, drove his automobile
while intoxicated, one day last week,
and, as might have been expected, he
ran over and killed Marion Newton, a
child of four. That, at any rate, is
the police account of the affair, and
Buckley is under arrest, with the pros-
pect under the California law of serv-
ing a long term in prison.

Through his attorney he has made to
the parents of the child a truly, remark-

able proposal—that of giving to them
in compensation or reparation his own
little girl of about the same age as his
victim!

Still more remarkable is it that
Buckley's wife has not entered a
vehement negative of his proposal. In-
stead, she has seconded it if the other
mother thus can be comforted for her
loss.

What the other mother says has not
been made known, but it can be imagin-
ed, and both of the Buckley's must be
aware, that the case cannot be settled
in this way. Perhaps that is one rea-
son why they made the offer.

Use the Want Ad. Way

This Laxative Works Fine on Old People

Thousands have kept themselves healthy
with Dr. Caldwell's Laxative Syrup Pepsin
ADVANCING age with its
subdued ambitions and
strivings could be made very
happy if only good health accom-
panied it, and the basis of good
health, as every-
one learns upon
reaching the age
of 60, is the regu-
lar daily move-
ment of the bow-
els. If it can be
effected through
the food you eat,
the water you
drink and the ex-
ercise you take,
so much the better. But if nature
will not operate it must be assisted
or sickness will follow. Neglected
constipation causes the blood pres-
sure to go up 28 per cent, and that
is the forerunner of "hardening
of the arteries. It makes rheuma-
tism and gout worse, too.

The ideal constipation remedy
for people of advancing years is
Dr. Caldwell's Laxative Syrup
Pepsin, a vegetable compound of
Egyptian senna and pepsin with
pleasant-tasting aromatics. It is
gentle and mild, and does not cramp
or gripe. It is a mistake to think
you need a violent salt or powder
or pill, calomel, coal-tar drugs and
such things. They purge and weaken

you, and their reaction tends to
make you more constipated than
before.

Now try the milder method.
Dr. Caldwell's Laxative Syrup Pepsin
does not lose its good effect
with repeated use, and increased
doses are unnecessary. Mrs. Ellen
Laird of Picton, N. S., who is 87,
keeps herself in good health with
it, and Mr. Chas. V. Nicholas of
Winnipeg, Man., finds it both
helpful and beneficial, and every-
thing that can be desired from a
laxative standpoint.

Use Dr. Caldwell's Laxative
Syrup Pepsin yourself the next
time you suffer from constipation,
biliousness, headache, sleeplessness,
indigestion, piles or night cramps.

Many thousands of elderly people
use nothing else, and it costs them
less than a cent a dose. Druggists
have sold it successfully for 30
years and it is the most widely
bought family laxative in the
world.

TAKE DR. CALDWELL'S
LAXATIVE SYRUP PEPSIN
The family remedy

Warm Felt Slippers

Cool mornings and evenings are with us now to stay
and you'll enjoy the cozy warmth of these Felt
Slippers. Drop in for a pair of them now, thus adding
a real foot comfort to your winter wardrobe.

FOR MEN FOLKS

Plain brown and black, with padded soles..... \$1.65

Glove Kid, with warm linings and padded soles..... \$2.50

Plaid Felt Slippers, with leather soles..... \$2.00

"Dr. Jaeger" Felt Slippers, plain top..... \$3.00

"Dr. Jaeger" Felt Slippers, with collar top..... \$3.25

FOR WOMEN FOLKS

Plain brown and grey, with padded soles..... \$1.15

Felt Slippers, with ribbon collar, many colors..... \$1.45 to \$2.65

Plaid Felt Slippers, with leather soles..... \$1.85 to \$3.00

"Dr. Jaeger" Felt Slippers, all wool..... \$3.00

FOR CHILDREN

Plaid Felt, with leather soles..... 85c to \$1.40

Plain Felt in red, grey, brown and blue..... \$1.00 to \$1.50

RELIABLE FOOTWEAR AT FAIR PRICES

Mail orders receive prompt attention. We pay postage.

THREE STORES
WATERBURY & RISING, LTD.