

FIFTEEN MINUTES OF RADIO EACH DAY

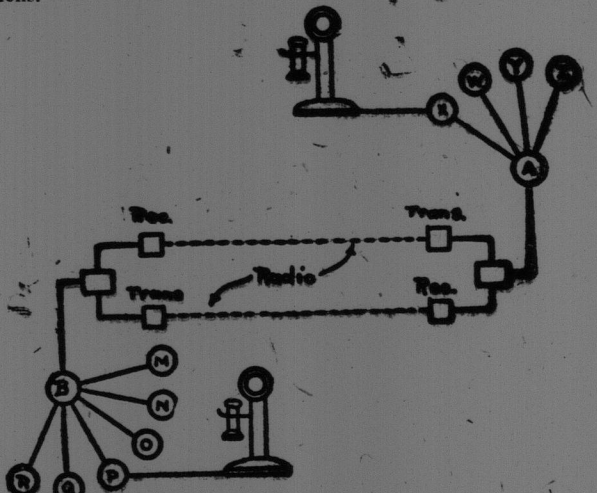
By Edward N. Davis
Formerly Technical Electrical Expert For U. S. Government

Lesson No. 170.

RADIO TELEPHONY AS AN EXTENSION TO THE LINE TELEPHONE

The telephone system as we know it before the advent of radio telephony was limited to communication between points on the same continent or nearby islands easily reached by short cables. The development of radiotelephony and its application as an extension to the existing telephone system may greatly increase the usefulness of this modern necessity. Already we have had demonstrations of the ability of the radiotelephone to carry the human voice half-way around the world as demonstrated in the tests of 1915, conducted from Arlington, Virginia. More recently communication has been established with one of the fast trans-oceanic steamers so that persons on board the steamer could not only talk to persons at the radiotelephone station on shore but by means of trunk lines connecting to the local telephone exchange conversation could be carried on with any person on shore who was near a telephone.

The way that conversations of this kind are carried on, partly over a radio system and partly over land lines is clearly shown in the diagram. "A" and "B" represent two cities which are connected by two radiotelephone stations. It will be noted from the diagram that the transmitters and receivers of the radio link are shown separately. This is for the reason that there are two separate antennas employed for transmitting and receiving which are located in separate buildings located far enough apart so that there is no interference between them. A loop antenna may be employed at the receiving station.



Central office "A" is of course connected by means of trunk lines with the central offices of other nearby cities or through toll offices to the central offices of distant cities. In the same way central office "B" is connected to other nearby central offices or through toll offices to the central offices of distant cities. These central offices are represented on the diagram by the circles connected to the circles marked "A" and "B". Each of the central offices is connected to several thousand individual subscribers. By means of the system outlined each of the thousands of subscribers in any one of the central office districts can talk to any other subscriber either entirely by wire telephony or by a combination of wire and wireless telephony.

Cities "A" and "B" may be located on opposite sides of the ocean and it is merely a question of building an economical transmitter and receiver to cover this distance in order to realize this world-wide means of carrying on a conversation.

In order to minimize interference, the radio transmitters and receivers are mounted in carefully shielded buildings since considerable amplification is employed at each end of the line and any local disturbance tends to render the voice signals indistinguishable.

It is interesting to note that a system somewhat similar to the one described is in every-day commercial use on the Pacific coast between the mainland and an island located about 80 miles off shore. At one time during the process of development conversation was established between a person on a ship in the Atlantic ocean and a person on the island in the Pacific ocean, the circuit being completed through the transcontinental land line.

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HALF CANADA'S BABIES BORN WITHOUT CARE FOR MOTHERS

Neither Doctor Nor Nurse in Attendance Says Victorian Order
Head in Plan to National Council to Help—
Advocates Midwife Licenses.

One-half the babies born in Canada are brought into the world without either medical or nursing attendance. Such was the amazing statement made in Montreal last week by Mrs. Charlotte Hanington, head of the Victorian Order of Nurses, after a tour of the national executive of the National Council of Women for better maternity care in Canada resulted in one of the most vital discussions ever carried on by that body.

Mrs. Hanington gave startling details of the lack of attention for mothers in Canada's isolated districts. Births in a certain district, seven hundred mothers had no assistance. "Remember that the Duke of Devonshire told us," said Mrs. Hanington, "the greatest immigration agent in Canada is the Canadian cradle."

Mrs. Hanington's solution of the problem of how to help mothers in Canada's isolated districts was to train and license midwives, such as they did in Britain and Europe. But a few years ago, Mrs. Hanington confessed, both the medical and nursing professions in Canada would have been up in arms against such a proposal. But she believed a more intimate knowledge of conditions here had made them ready to support such an idea. It was impossible to provide trained nurses and doctors for the isolated districts. To safeguard the lives of the women and children in such places, Mrs. Hanington's many surveys of Canada have convinced her that licensed midwives are the answer.

Our medical schools are not giving sufficient training in obstetrics; they are placing surgery and medicine before the subject which should come first. Even our nurses were not getting the obstetrical training they should, asserted Mrs. Hanington, who advocated a specialized training for midwives.

"Let us take the women who already are attempting to care for mothers in our isolated districts," said Mrs. Hanington, "and train them. They know the districts and conditions and can serve the mothers well."

It is a mistake to make women feel that childbirth is an elaborate surgical operation; teach them it is a natural physical process. We have commercialized childbirth. We have withheld information that would teach women to take care of themselves."

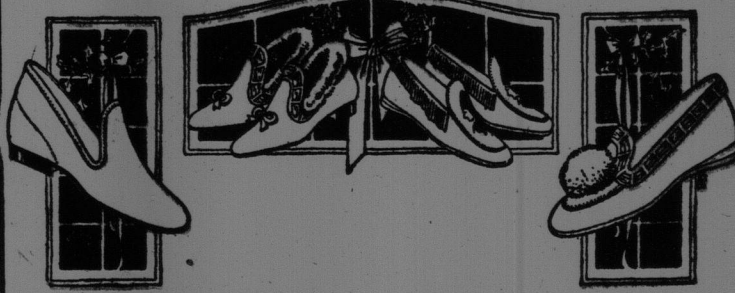
Such were some of the shots which Mrs. Hanington fired in her insistent plea that something should be done at once.

Dr. Ritchie England told of the splendid work done by European midwives. During her obstetrical training in Vienna she had worked in the midwives' clinic and it was there where she had received her aseptic training. Even royalty there was attended by the court midwife.

Mrs. Horace Parsons supported Mrs. Hanington's disclosure of the fearful conditions faced by women in isolated districts. She told of taking a Northern woman to a Cochrane hospital where her baby was born but to die the next day.

"I am ashamed to go to the hospital," said the woman, she was clad in an old skirt with a shawl over her head and shoes that were not made.

"Don't think of your clothes at such a time!" Mrs. Parsons had said. "I wasn't thinking of my clothes!" said the woman. "I'm afraid they'll



Comfort Slippers for Everyone

How pleasant it is to see a home where everyone, young and old, enjoys spending their evenings within the family circle. In such a home, every thought is for comfort and happiness. In homes of this kind, such thoughtful gifts as house-slippers are sure to find a place on someone's gift list.

Women's Dainty Kozzy Felt Slippers \$1.25 to \$2.65
Colors—Grey, Brown, Red, Rose, Blue.

Men's Heavy Felt Slippers \$1.25 to \$3.50
Plain Colors or Warm Plaids.

Children's Warm Slippers 90c to \$1.65
Colors—Red, Grey, Brown, Blue.

RELIABLE FOOTWEAR AT FAIR PRICES.

WATERBURY & RISING, Ltd.

THREE STORES

And out how hungry I've been.

Mrs. Parsons reminded the meeting that the National Council already had a resolution on their books upholding further state aid for mothers, and Mrs. Hanington's appeal was approved.

RECENT WEDDINGS

Rev. H. P. Thomas, pastor of Exmouth Street Methodist Church, united in marriage Miss Emma Matheson and George William Hollett, Wednesday. The bride is a daughter of Mr. and Mrs. W. T. Matheson of Summerside, P. E. I. Following a trip to Prince Edward Island they will reside in Montreal.

RECENT DEATHS

Mrs. Kate Thorne.
Many friends throughout the province will mourn the passing of Mrs. Kate Thorne, who died on Saturday, November 28, at the residence of her daughter, Mrs. A. J. Gules, in Havelock, at the age of seventy-nine years. In her long life Mrs. Thorne greatly endeared herself to all who knew her. She was of a genial and sunny disposition and a warm, Christian character. In religion she was a Baptist and for many years was a devoted and faithful member of the Baptist church at New Canaan. Her passing will long be regretted and she will be held in cherished memory. Sincere sympathy has gone out to the bereaved relatives. Mrs. Thorne was the youngest daughter of the late Joseph and Grace Blackney and was the last surviving of a family of eleven children. She spent the early years of her life at Intervale, Westmorland county, and after her marriage to Ephraim Thorne, her home was at New Canaan, Queen's county. Since the death of her husband, twenty-three years ago, she had lived with her daughter at Havelock. She is survived by two daughters, Mrs. A. J. Gules, of Havelock, and Mrs. Frederick Wales, of Chazy, N. Y., three granddaughters and one great-granddaughter. The funeral took place on Tuesday, November 28, at Havelock and the services at the house and at the grave were conducted by Rev. Mr. Horwood. Interment was made in the family burying plot. The large attendance at the funeral was an evidence of the high esteem in which Mrs. Thorne was held.

Miss Mae Clark.

After an illness of about three weeks, the death of Miss Mae Clark occurred yesterday at the Council Hospital, East St. John. Miss Clark was a native of England and came to Canada several years ago. She had been employed with Handline Brothers. She was of a quiet and sweet disposition and had endeared herself to many. Two sisters, Mrs. Pincock, of Stanley,

and Miss Katie Clark, of Boston, survive. The funeral will be held at 3 o'clock p. m. on Saturday from 188 Paradise Row to St. Paul's church.

Mrs. Clara A. Brown.
At Lakeside Corner, Sanbury County, on Wednesday, Mrs. Clara A. Brown, widow of Robert C. Brown, died, aged seventy-two years.

At Fredericton Junction, on Tuesday, Charles Mott died, at the age of seventy-seven. He leaves four sons and three daughters, Edward M. of Rusagor, Geo. A. of Winnipeg, Parker and Chester of Fredericton Junction, Mrs. W. J. McCann of Enfield, Mrs. C. L. Alexander of Fredericton Junction, Mrs. H. V. Lammie of Santa Maria, California; two sisters and one brother, Mrs. E. Embleton of Fredericton, Mrs. N. Alexander of Rusagor, and Alexander Mott of Rusagor.

Mrs. Mary Stevens, wife of Captain Stevens has sold to C. D. Rathburn leasehold property at 482 Main street. Lewis D. Brown has sold to Samuel J. Holder a freehold property on the north side of Newman street.

Christmas Display Combined With Many Special Offerings

To Make This Store a Most Popular
Place to Shop in on Saturday

Come and Look Around—Buy If You Wish



LOVELY NEW MADEIRA LINENS

Remarkable Prices

All these dainty linen pieces with a touch of Madeira embroidery.

Many designs. Centre Pieces. All sizes.

Tray Cloths and Sideboards.

Hosiery Department Always Has Good Things for Saturday

Self strip Silk Hose in pretty greys, fawns, browns, beige, extra ribbed tops. All sizes. 95c pr
Cloaked heater hose in several new mixtures, browns, greys, greens. All sizes. \$1.65 pr

Glove Department Offers

Dent's extra soft wool gauntlet gloves in new shades of greys. \$1.00 pair in box
Embroidered cuff chamousette gloves in assorted shades. \$1.95 a pair in box

A Special Buy in Stamped Articles

Stencil cushion tops, value 50c. Saturday 39c
Stamped library sets. 50c cushions for 35c
\$1.25 scarfs for 65c
And \$1.45 centres for 85c
Kiddies' black saten aprons, applied. \$1.50 for 95c
Kiddies' play aprons, applique pockets 38c

Linen Department—Xmas Specials

Embroidered tray cloths, prettily boxed 85c each
Embroidered runners, scallop border, boxed 95c each
Centre pieces, scalloped edge embroidered, boxed 65c each
Pillow slips, embroidered, scalloped ends Xmas box \$2.95 pr

Some Very Special Prices on Pretty Evening Dresses

A Number of Smart Little Evening Dresses that We Are Putting on as Special for Saturday.

At \$15.00—Pretty net evening dresses over silk slip; suitable for misses and college girls; maize, pink, Nile.
At \$19.50—Black taffeta Evening Dresses, bouffant skirt finished with fringe.
At \$24.75—Black taffeta Evening Dresses trimmed ruffles and silk rosettes, French bouquets.
At \$34.50—Black velvet bodice and black lace skirt, bouquets.
At \$44.75—Black lace, Georgette or Satin Dresses trimmed large beads and French bouquets.

Sale of Model Cushions in Art Department

at Half.
A limited number only embroidered cushions used as models, now to be sold. Excellent for gifts.
On Saturday Half Price.

Hand Bags One of Our Big Lines.

Specials for Xmas
Very attractive fine leather bags with new shape and fittings, silk lined \$3.25
Fine book shape hand bags with strap at top; extra fittings. \$3.25
Vanity cases in lot of different styles \$1.00 to \$3.00

Xmas Show Room in Fuller Display Still for This Saturday—In Annex

You must see the popular priced Xmas things that have been gathered together for this holiday season. Hundreds of attractive items.
Added this week—New lot gold banded china, 20 to 25 p.c. lower than usual.
New lines fancy stationery; Colonial and etched glassware.

65 Only Men's Heavy Winter Overcoats

To be Sold at Greatly Reduced Prices on Saturday.

This is a Very Exceptional Bargain Opportunity—
You Really Haven't Seen Such Overcoat Values in Years

Coats are all well tailored and in fashionable styles in popular demand now. Half belted, full backed and full belted models made from best domestic and imported Tweeds and Cheviots. Plain colors and manish mixtures.

Early comers will benefit by the choice of selection.

\$15.75, \$18.75 Ea.

Boys' Overcoats

ALSO, GREATLY REDUCED

Rarely an occasion like this to buy Boys' Overcoats presents itself. All the fashionable soft piled cloths are represented in this collection. Overcoats are the big comfortable kinds that every boy admires and needs—every one is well tailored and made to stand plenty of hard wear.

Sizes 2½ to 10 years. \$5, \$6.75, \$7.50, \$10

Sizes 11 to 17 years. \$5, \$6, \$8.50, \$12

Sales commences Saturday Morning at 8.30

(Men's shop—2nd floor.)

Manchester Robertson Allison Limited
KING STREET GERMAIN STREET MARKET SQUARE



Not A Blenheim

males the perfect appearance of her complexion. Permanent and temporary skin troubles are effectively concealed. Reduces unsightly color and corrects greasy skin. Highly antiseptic. Send for Free Trial Size

PERD. T. HOPKINS & SON, Montreal

Gouraud's Oriental Cream

males the perfect appearance of her complexion. Permanent and temporary skin troubles are effectively concealed. Reduces unsightly color and corrects greasy skin. Highly antiseptic. Send for Free Trial Size

PERD. T. HOPKINS & SON, Montreal

Fire Insurance

Eagle Star and British Dominions Insurance Company, Ltd., of London, Eng.

Assets Exceed Ninety-Three Million Dollars

C. E. L. JARVIS & SON
GENERAL AGENTS

This Week

We are offering another exceptional bargain.

Men's Best Quality Boots

Regularly priced from \$9 to \$12 a pair, in black and brown, in a number of styles.

All One Price

YOUR CHOICE AT

6.75

You will be fortunate indeed if your size and fitting is among these bargains.

Some styles shown in our window.

McROBBIE
Foot St. John 50 King Street

London House

F. W. DANIEL & CO.

HEAD OF KING ST.

Saturday Special in Comfortables

Draperies Department

24 large size white cotton filled comforts, covered with good strong chintz.

On Saturday Special \$2.29 each