

THE EVENING TIMES AND STAR, ST. JOHN, N. B., FRIDAY, JULY 21, 1922

**The Evening Times and Star**  
ST. JOHN, N. B., JULY 21, 1922.

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**THE RUTHERFORD REPORT.**

The case for a vocational high school in St. John is so unanswerably made by the Rutherford report submitted to the vocational committee that the latter can do no less than provide such a school as soon as possible, and not be niggardly about it.

To be frank, the conditions set forth in the report are a disgrace to St. John. Out of 9,067 pupils in the schools the grading record shows that 8,814 are retarded, that is to say, they are below the grade in which their age would warrant them in being placed; but still more significant is the estimate that 2,089 children between twelve and seventeen years are not in school at all. These figures include schools in the suburbs.

Why are so many pupils retarded? The chief reason is that after they reach the age of twelve the present curriculum is not suited to the needs and ability of a large number. They should have pre-vocational training for two years to be followed by a vocational course. Not only would that course help them, but it would keep in school the great majority of the more than two thousand between twelve and seventeen years who are not there now. If only 44 between the ages of fourteen and eighteen are found to be at work the case is so much the worse, since it would mean that a very large number are neither at work or in school. To get a clear knowledge of how the pupils leave school before they have got as far as the eighth grade consider these figures of enrollment:

Grade I.....	1,515
Grade II.....	1,283
Grade III.....	1,190
Grade IV.....	1,140
Grade V.....	1,143
Grade VI.....	806
Grade VII.....	749
Grade VIII.....	561
Grade IX.....	319
Grade X.....	158
Grade XI.....	158
Grade XII.....	13

Only a little over a third of the pupils in the first grade go on and enter the eighth grade, and only a little over one-fifth enter the ninth; and even at the beginning of grade six there are only a little more than half as many as in grade one. And of the total attendance only thirteen were in the tenth grade. Commenting on this very bad showing Mr. Rutherford says:

"Pre-vocational courses for those twelve to fourteen years, and vocational courses for those fourteen years of age and over, would appear to be the most reasonable method of correcting this retardation and elimination."  
In other words—a vocational school. There is the greater need of such a school because the present schools are full to overflowing. The only possible ground of protest against the erection of this school would be that of expense, but the government pays twenty-five per cent. of the cost of the building, fifty per cent. of the cost of equipment, and sixty per cent. of the salaries after the school is opened.

The report of Mr. Rutherford is too exhaustive to be covered in one or many articles. It quotes great numbers of expressions by business men and manufacturers strongly endorsing vocational training, presents charts, conclusions and recommendations, and gives a detailed account of the requirements of a building and outline of courses for both day and evening classes. It gives much valuable information that every citizen should absorb.

The City Council, Board of Trade, Commercial Club, Rotary Club, G. Y. Club and other organizations desiring to see St. John make a great forward step should at once assure the vocational committee of their hearty approval and support of action along the lines indicated in this report which of course will be printed and widely circulated.

Of hydro progress in Ontario the Toronto Globe says—"F. A. Gaby, Chief Engineer of the Hydro-electric Power Commission, states that the installation of No. 3 generator at the Queenston power house, Chippawa, is about completed, and this unit will be put on commercial load about the first of August. With three units operating the plant will be producing 160,000 horsepower, bringing in a revenue of approximately \$5,000,000 a year. This is one of the total number of units to be added on commercial load, the tenth unit to be kept for utility purposes."

**WE MUST FACE THE ISSUE**

Industrial expansion in St. John is conditioned on two things, cheap power and skilled labor. We are assured of the former. To get the latter we need a vocational high school, built on generous lines and thoroughly equipped. We must have more school accommodation. Dr. Bridges very forcibly dwelt on this fact at yesterday's meeting of the vocational committee, and also made it clear that vocational training cannot be carried on in the present school buildings. Not only would a vocational high school relieve, as he says, the present overcrowding in the cultural schools but it would lessen the number of retarded pupils in these schools and also keep in school most of the twelve hundred between the ages of twelve and seventeen who are not there now.

Alex. Wilson's plea for a new vocational high school was partly based on what he heard at the meeting of the Manufacturers' Association of what is being done in Ontario towns and cities. Industry needs trained help and the vocational school provides it. St. John is most favorably located to become a centre of manufacturing for export. A vocational school to train workers is a first essential. Dr. Bridges estimates the cost of a building at about \$250,000. That would not be excessive for a city like St. John. We know that Ontario cities much smaller than St. John do not balk at half a million, and the benefit reaped justifies the outlay. Our present school buildings will not meet the need. They are in the first place designed for another class of work, and in the second place they are overcrowded. Mr. Lewin's fear that the government would not back any large expenditure is unfounded. The government pays 25 per cent. of the cost of buildings, 50 per cent. of cost of equipment and 60 per cent. of salaries. There should be no hesitation in this matter. St. John does not want to be told presently that it has less enterprise and faith in itself than Moncton and other cities and towns in the province. Let everybody unite to get into school that twelve hundred who are out, and to advance the 8,814 retarded pupils who are so retarded chiefly because the curriculum is not fitted to their needs. St. John cannot face the Rutherford report and remain passive without losing caste as a city of intelligent and progressive people.

**WATCHFUL WAITING**

Whether St. John is to get cheap power, and the industrial expansion it brings, depends upon the attitude maintained toward the New Brunswick Power Company. In no spirit of revenge, but with a resolve to get the full benefit of the Musquash development, the city must get on with the business of distributing the current at cost. To do otherwise would be to betray the public interest. If the power company chooses to compete for a time, that is its privilege, and it knows in advance what the end will be. If it wishes to sell out, it can only do so on terms satisfactory to the people, and if it nurses the delusion that the people are eager to buy at an inflated valuation it has only to wait and see. The development of Musquash was not undertaken in the interests of a private corporation, but of the people. The only change in public sentiment since the civic elections is a deeper conviction that Musquash can deliver the goods, and that a civic distribution system will cost less—if it must be erected—than was originally estimated. It is not in any spirit of hostility to the company, although even that might be excused in view of past experience, but with a determination to change an intolerable situation that the people call upon their representatives to get on with the task for which they were elected. It would exactly suit the purpose of the company to have the impression go abroad that many people had changed their minds, or were opposed to competition, or to municipal ownership, or would refuse to take the new power when offered; but no such change has come about. The people are waiting—that is all—and they do not want to wait too long. The summer is passing. If while private conferences are prolonged they grow a bit restive, it is not unnatural. They will be glad if the outcome shows their interests to have been advanced.

The following paragraph explains why few men care to enter the teaching profession and remain in it—"Recently Princeton University authorities published figures showing the earning capacity of the class of 1912. This class had just ten years to find its feet, and in response to a college questionnaire, the class reported an average income last year of \$6,750. The largest income reported was \$60,000, by a manufacturer; and the lowest income was \$3,225, which was earned by a teacher."

Toronto Telegram—"Breakdown of private ownership of the coal mining industry and its consequences is a reminder that private ownership of public utilities is a licensing system and that the government, in the last resort, stands between the public and private ownership inefficiency."

**FIFTEEN MINUTES OF RADIO EACH DAY**

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

Lesson No. 58.

**THE AUDIO FREQUENCY AMPLIFIER.**

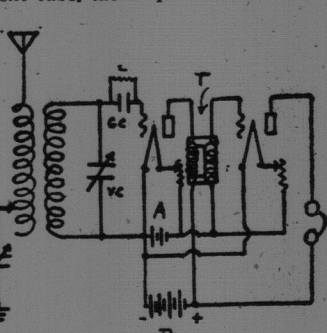
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The audio frequency amplifier derives its name from the fact that it is employed to increase the strength of the radio signal in a receiving system after the signal has been converted from a radio frequency into an audio frequency by the action of the detector tube. In its simplest form the audio frequency amplifier consists of an audio frequency amplifying transformer, and an amplifier transformer designed for this purpose and the necessary vacuum tube of the amplifier type with the usual filament current regulating rheostat and socket. Such a combination of apparatus which makes use of two such units is said to contain a two step audio frequency amplifier.  
It is impractical to use more than two or three steps or stages of audio frequency amplification due to the tendency of additional stages to over-amplify noises developed in the tube itself and disturbances caused by induction from local lighting circuits. When it is desired to receive louder signals or signals from stations which cannot be heard with a detector and one or two stages of audio frequency amplification, it is necessary to resort to radio frequency amplification.

The audio frequency amplifying transformer consists of a small transformer usually of the shell type, having a laminated core of the best grade of silicon steel. The ratio of secondary turns to primary turns varies with the different manufacturers, but is usually about nine to one. The primary of the transformer is connected to the plate circuit of the detector tube while the secondary is connected to the grid circuit of the next tube, the amplifier tube.

The frequency range of the signals passing through the windings of the audio frequency amplifying transformer is very small compared to the frequency range of the signals which flow through the windings of radio frequency amplifying transformers. Unlike radio frequency amplifying transformers which must be designed for the particular frequency on which the signals are to be amplified, a standard audio frequency amplifying transformer may be used which covers the entire range of audio frequencies.

A horn may be attached to the telephone receiver to throw the amplified signal out into the room, such a device being referred to as a loud speaker. Such a device can only be employed satisfactorily where one or two stages of amplification are used, the energy in the plate circuit of a single detector tube being too small for this purpose.

It is possible with a single stage of audio frequency to obtain an energy amplification of several hundred times which means that the signal will sound about twenty times as loud in the telephone receivers. Two stages of audio frequency amplification gives an energy amplification of several hundred times, rendering the audible signal about four hundred times as loud.  
The filament current supply and the plate current supply for the vacuum tubes used in multi-stage amplifiers of the radio frequency types are obtained from the same source which furnishes current for the detector tubes.



T - audio-frequency transformer  
A - plate battery  
B - filament battery  
C - grid condenser  
D - variable condenser  
E - grid leak

**Audio-frequency Amplifier.**

**GOOD THINGS COMING TO THE THEATRES OF ST. JOHN**

**OPERA TICKETS BY MAIL ORDER**

Mail orders for the comic opera season next Wednesday, August 2nd, at the Imperial theatre, are coming into the box office in surprisingly large volume. A generous sprinkling of the orders to date are from the suburban resorts from people who intend using their motors. The opening bill on Wednesday night is "Marianita," brilliant and tuneful. Thursday matinee the funny comedy, "The Mascot." Thursday evening the old favorite "Fra Diavolo," with its humorous bandits and Friday evening a revival of the Spanish rural comedy, "Girofalo-Girofalo." The prices for this engagement are orchestra, \$1.50 and \$1; Balcony, \$1.75 and 50c. The mail orders are being accepted but the box office sale for personal selection will not open until Monday next the 24th.

**IRISH ROMANCE HIT AT IMPERIAL**

The Imperial's feature picture "The Bride's Play" proved a strong magnet for many last evening although there were numerous counter attractions including a band concert in King square. The scenic beauty of the feature, "The Irish Romance" made it stand out prominently as one of the novelty pictures of the summer season and a most worthy member of the Imperial's summer slate of star programmes. After the first performance last evening the Imperial's telephones rang for fully half an hour with messages of congratulation from patrons who desired to express their appreciation of the entertainment they received in the screening of the elaborate feature and the delightful way in which it was played by the Imperial's orchestra—a medley of haunting Irish melodies and folk-songs.

**FIRST TIME IN ST. JOHN.**

We have by a streak of good luck been able to make arrangements with Lieut. Edwin Smith, R. N. V. R., F. R. A. S., who has been appointed officer-in-charge of the great Admiralty picture, "The Empress's Shield," to show in the Empress Theatre on Friday and Saturday, July 21 and 22.  
This is the official picture of the British Navy, during the war, shows all the ships, large and small, doing their work, and more airships, sea-planes, flying boats and dirigibles than ever was seen in one place before. There are no fake pictures, and the photography is perfect. The whole Grand Fleet in action.  
Lieut. Smith, who has had a distinguished career in the British Navy during the war, will give a short introductory address on "The Navy's Job During the War."

J. D. B. F. MacKenzie of Chatham, provincial grand master, and J. Twinn of St. John, grand secretary of the Masonic order, visited the Port Elgin lodge last night and the Sheldiac lodge on Wednesday. On Wednesday evening, at Moncton, the Keith lodge there was presented a beautiful set of ashlar by W. H. Smith, P. G. J. W., of St. John. Speeches were delivered by Worshipful Brothers Hoare, Parkhill, Sawaya, Stanton and Smith of St. John, following the presentation.

**LOCAL NEWS**

Workmen if you do not like to wear overalls, get a pair of strong tweed pants for \$1.98 a pair at Bassen's, 14 Charlotte St. 7-22

Steamer Dream for Cedars, 4 p. m. Saturday. 6903-7-22

Steamer Oconee leaves 2 p. m. Saturday. 6902-7-22

Boys blouses, reg. \$1 on sale for 69 cents, at Bassen's, cor. Union and Sydney streets. 7-23

Steamer Hampton for Belleisle, Glenwood and way stops, Saturday, 1.30 daylight time. 7-23

Grey cotton 60 inches wide for 19 cents a yard, at Bassen's, cor. Union and Sydney streets. 7-23

Ladies' silk hose (drop-stitch) first quality, all colors, only 98 cents pair. Baby's Dept. Store, 104-106 King street. West. 7-22

Dance at Public Landing Saturday evening and know a good time. 5893-7-22

Men's working shirts for 79 cents and dress shirts 98 cents, at Bassen's sale, cor. Union and Sydney streets. 7-23

Long khaki pants for the young lads, \$1.75, a pair at Bassen's, 14, 16, 18 Charlotte St. 7-22

**LOCAL NEWS**

A concert by the City Cornet Band and refreshments of ice cream and cake were the main events of a concert which was put on through the kindness of Commissioner Walsh at the Municipal Home last night.

The W. M. S. of Victoria street Baptist church held a very successful lawn party yesterday afternoon on the grounds of Mrs. McLaughlin, in Millidge avenue. Miss Alberta Stockford was the general convener.

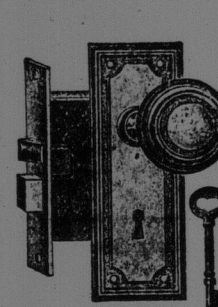
Tenders for repairing and painting the two schools in Morris street, Fairville, were opened at a special meeting of the Fairville school board last night. The contract for repairs was awarded to William J. Linton of Fairville, and contract for painting was set aside for a time.

It has been announced that Rev. Dr. Campbell Morgan, formerly minister of the Westminster chapel in London and a famous divine, will be in St. John for five days in October. Congregations responsible for bringing him here are those of St. Andrew's, St. David's, German street Baptist and Centenary Methodist churches. Rev. F. S. Dowling has been elected chairman, and W. C. Cross secretary of a committee to make arrangements for a series of meetings to be held afternoon and evening.

**CONDEMN ISLAND.**  
Swedish Author Says Immigrants Are Treated Like Animals.

Chicago, July 21—"No wonder the immigrant gets the wrong impression of America when he meets the worst kind of Americans in charge at Ellis Island," said Miss Esther Nordstrom, Miss Nordstrom, the author of five books, came here from her home in Sweden in the steerage and is on her way to Minnesota to study Swedish immigrants there.  
"The treatment the immigrants receive at Ellis Island," said Miss Nordstrom, "is not at all typical of America. The officials treat the incoming foreigners as if they were animals, shove them around and swear at them."

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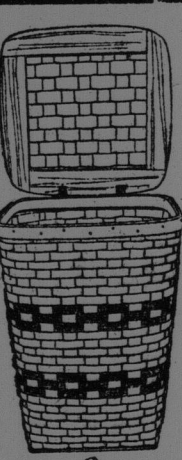
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of summer weight. \$3.50.  
You save more than \$3.50 on each hat now.

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Light, Practical.  
\$1.00 Each.

**Motor Caps of Leather**, several kinds. ....50c., \$1.00, \$1.50  
**The Last of Men's Topcoats**, \$18.00 Each, of \$27.50 Value.  
Any Man's Straw Hat, \$1.75—\$3.00 Value.

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SINCE 1859 St. John, N. B.

**FINDS CHILD AFTER 4 YEARS**

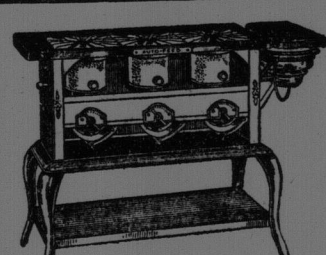
Connecticut Woman Comes Across Her in Grand Central Station.

Torrington, Conn., July 21—After a four year's search, Grace Curtiss, nine years old, daughter of Mr. and Mrs. E. W. Curtiss, has been found by her mother.

The child disappeared after the Connecticut superior court had awarded custody of her to her mother, with her father having the privilege of seeing her occasionally. This was in settling the suit brought by her mother. Curtiss was ordered to bring the child to court, but failed to do so and was arrested on a charge of contempt. He retaliated by issuing a pamphlet, which attacked Judge Lucien F. Burpee, and was again arrested and sentenced to jail. During his trial he became violent in court and was finally committed to an insane hospital.

The girl was discovered Saturday by her mother in the Grand Central Station, New York City. Her brother Irving was with her. Mrs. Curtiss started proceedings to have son arrested on the charge of kidnapping, but dropped the case when he gave up the girl.

Mrs. Curtiss received a divorce in December on the ground of cruelty.



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No. 3 size Twine Mop ..... 45c.  
No. 5 size Twine Mop ..... 60c.

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14 K. Gold ..... From \$45.00

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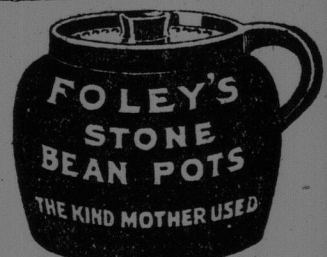
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