

**CHANGE OF C.P.R. TRAIN SERVICE.**—The Canadian Pacific Railway's Eastern express, leaving Toronto Union 9.15 p.m. and North Toronto 10 p.m., will on and after May 1st, 1892, leave the Union Depot at 9 p.m. and North Toronto 9.45.

An extra local train will also be run to Streetsville, leaving Toronto Union Depot 6.50 a.m., arriving at Streetsville Junction 7.45 a.m.

THE last census shows 3,715 towns in the United States with a population of more than 1,000. There are seven cities with more than 400,000 inhabitants; twenty-one between 100,000 and 400,000; thirty between 50,000 and 100,000; sixty-six over 20,000 and under 50,000; ninety-two over 15,000 and under 25,000, and 138 over 10,000 and under 15,000.

MR. P. CORRIDI, having been appointed sole representative for Mr. Henry Goldman, of Chicago, for his system of locating errors in trial balances, short methods for computing interest, averaging accounts, etc., for the city of Toronto, is prepared to give instructions as to application. Full particulars as to charges for instruction, etc., can be had by applying at his office, York Chambers, Toronto Street. This system will commend itself to accountants, book-keepers and business men. He also makes a specialty of accountancy, etc. Having first-class city references, from firms whose books he has arranged, audited and adjusted, and having had a large experience as a mercantile book-keeper, he feels confident to give satisfaction. All business entrusted to him strictly confidential.

HEMORRHAGES from the lungs may be alleviated by placing the patient in bed in a sitting position, and giving teaspoonful doses of salt and vinegar every fifteen minutes. Night-sweats may be checked by sponging the body at night with very hot water. To tone up the skin, rub the body briskly in the morning with a bathing towel wrung out of salt water; the salt enters the pores and stimulates the skin to healthful action.—*New York Ledger*.

ONE of the most recent of Edison's inventions in the line of electricity consists of a magnet on the locomotive tender, which acts upon similar magnets situated in the middle of the railroad track. The ground magnets are included in an electric circuit, which operates a system of signals. As the train is moving the electric magnet on the engine causes a current to be generated in the magnet on the track, which causes a signal of danger to be set for the following trains. As the first train progresses, it passes another magnet in the track, which causes to be released the signal at the first station, while setting the second signal for danger. It is expected that this device will result in a considerable reduction in the number of men required at the different signal stations.—*Philadelphia Record*.

## "German Syrup"

**Asthma.** "I have been a great sufferer from Asthma and severe Colds every Winter, and last Fall my friends as well as myself thought because of my feeble condition, and great distress from constant coughing, and inability to raise any of the accumulated matter from my lungs, that my time was close at hand. When nearly worn out for want of sleep and rest, a friend recommended me to try thy valuable medicine, Boschee's German Syrup. I am confident it saved my life. Almost the first dose gave me great relief and a gentle refreshing sleep, such as I had not had for weeks. My cough began immediately to loosen and pass away, and I found myself rapidly gaining in health and weight. I am pleased to inform thee—unsolicited—that I am in excellent health and do certainly attribute it to thy Boschee's German Syrup. C. B. STICKNEY, *Pictou Ontario*"

### SCIENTIFIC AND SANITARY.

AN infant with a transparent brain-pan was recently born in the Italian quarter of Philadelphia. The upper portion of the boy's skull is missing, and the brain is clearly visible, being covered only by a fine transparent membrane. The brain is apparently perfect and in its proper position. The child has no forehead, the bone covering being cut off like the top of an egg in a line around the upper parts of the ears to the eyebrows. As far as a cursory examination could determine, all the veins and tissues under and about the brain are normal. The action of the brain is quite visible, as is the membrane separating the lobes.—*New Orleans Times-Democrat*.

GENERAL EDWARD W. SERRELL, who was chief engineer in the United States army in charge of the department of the South during the Civil War, is reported by the *Boston Herald* to have invented a wonderful electrical system of auxiliary harbour defences. This invention is said to have been recently completed, and it is claimed that by its use an enemy's ship can be kept outside a harbour at such a distance as to put the place defended beyond the reach of her guns. It is claimed that the device is so constructed that if a single ship or fleet of any number of vessels attempt to enter a harbour where it has been introduced each ship could be struck a blow (with what or in what way it is not stated) equal to 50,000 foot tons, and the blow would come from overhead, out of the air, as the ship crossed a certain line. The mysterious blow, it is stated, is to come vertically, and is to strike upon the part of the ship where it will do the most permanent harm. Twenty of these Thorhammer blows can be struck in 10 seconds of time. Several army officers and naval experts are said to have investigated the method, and are reported to have agreed that the blow could certainly be struck within a foot or two of point indicated. It is further said that the blow cannot be warded or conducted off as a stroke of lightning might be, but would shatter the object struck into fragments.—*Philadelphia Record*.

THE City Council of St. Etienne, in France, have decided upon a departure which is expected to have an important effect upon the silk and ribbon industries both in Europe and this country. It has been resolved to apply electric motor power to all the hand looms in that city, and contracts have already been made for the necessary plant and wiring. The dynamos are to be driven by water from the city reservoirs, and as the supply is practically unlimited, the cost of producing the current will be reduced to the lowest possible point. The importance and far-reaching results of this innovation is seen in the extent of the ribbon industry at this place. The bulk of the enormous output of ribbons, valued at over \$20,000,000 a year, is the product of house industry, the weavers for the most part owning their own looms and operating them by hand in their own homes. There are 18,000 of these looms scattered over the city in the houses of the weavers. What the city proposes is to convert each one of these hand looms into a power loom, driven by electricity, and at the same time furnish electric light. The result of this change from the slow and laborious hand power to the swift and unfailing power furnished by electricity will largely increase the production and reduce the costs, with the result that they will be better able to compete with the products of other countries.—*Philadelphia Record*.

IN the progress of every science there are necessarily lulls or temporary cessations in the experimental results of investigators, and this is often owing to the difficulty of elucidating certain points which, even though they may not be absolutely necessary, are at any rate desirable to establish, in order that the science may be brought to a condition of practical utility. This has been more especially the case with what must still be called the "infant science"—bacteriology. The points most requiring elucidation belong to that section of the subject which relates to the investigation of micro parasites or disease germs. Among all the different varieties of bacteria we know of and can cultivate, the few, comparatively, which will grow in the tissues and blood of living animals afford the most gratifying research results. The changes

they bring about in growing constitute disease conditions frequently of definite kinds caused by one specific germ. The significant fact that these conditions are frequently noncurrent in the same individual has afforded to bacteriologists a key by which have been opened up certain vistas in the future of prophylaxy which, though still shadowy, are progressive in distinctness and certainty. Attempts toward ridding the human race of the scourge of infectious disease have been made so far in several different ways. The following are six of the methods which have been employed: 1. M. Pasteur's simple preventive inoculation which consists in administering a minute quantity of an "attenuated" or "mitigated" artificial culture of the microbe disease in question, this process having the effect of producing a mild attack of the disease, which protects against a future fatal attack. 2. The method used by M. Pasteur in rabies (hydrophobia), consisting in the injection of a mitigated virus into a patient already attacked by the disease, in order to overtake the natural virus, acting at full strength by the influence of the mitigated virus. This method has only been used, so far, in the case of rabies, but has apparently been eminently successful. 3. The employment of the virus of one comparatively mild disease to protect against a more severe one (such as vaccination), with cowpox virus for smallpox, inoculations with cultures of the micrococcus of erysipelas to eradicate cancerous formations, etc. 4. The destruction or poisoning of the bacteria which are acting as the *materies morbi* by the administration of antiseptics or bactericides in the form of drugs, internally or by injection. 5. The re-enforcement or natural means possessed by our systems for combating disease germs. This has been attempted in several ways: a. Acting on the theory of Metschnikoff, that the "leucocytes" or white blood corpuscles, engulf bacteria and destroy them by the injection of quantities of the blood of some animal insusceptible to the disease in question. b. Raising or lowering the temperature of the body of the animal attacked. c. Alteration of diet, climate or surroundings. d. Injection of what are known as phagocyte invigorators, i. e., substances which assist the leucocytes in their engulfing action. 6. By the injection of the "toxalbumens" formed by the bacteria growing in artificial pure cultures, as has been done by Koch in the case of tuberculosis. The expectations formed of Koch's injection treatment have not yet been fulfilled, and although many seeming cures, or at any rate many preventions of imminent death, have been brought about by its means, it will certainly never be universally adopted in its present form. The evidence, as far as it goes, seems to indicate that Pasteur's "over-taking treatment" in rabies has been almost ideally successful, but this cannot yet be definitely affirmed, for the reason that in the statistics of rabies an enormous number of undoubted cases must be collected before the arguments of Pasteur's numerous opponents can be overcome. Protective inoculation in the case of anthrax (which attacks nearly every warm blooded animal) may be employed with almost mathematical certainty in the laboratory, yet it is not so easily employed on the commercial or rather agricultural scale.—*London Saturday Review*.

A SYSTEM of heliograph signals which will cover a circle of over 100 miles in diameter is to be put in at Pierre, Dakota, by the weather bureau. The system will be available for transmitting any kind of news besides the weather reports.—*Manchester Union*.

MESSRS. C. C. RICHARDS & Co.

Gents.—Having used MINARD'S LINIMENT for several years in my stable, I attest to its being the best thing I know of for horse flesh. In the family, we have used it for every purpose that a liniment is adapted for, it being recommended to us by the late Dr. J. L. R. Webster. Personally I find it the best allayer of neuralgic pain I have ever used.

B. TITUS,  
Proprietor Yarmouth Livery Stable.

DR. T. A. SLOCUM'S

OXYGENIZED EMULSION OF PURE COD LIVER OIL. If you have Weak Lungs—Use it. For sale by all druggists. 35 cents per bottle.

### WORTHY OF CONSIDERATION.

The cash income derived by the North American Life Assurance Company for 1891 from its interest earning assets and investments was more than sufficient to pay all the death losses experienced by the Company during the year.

This single fact, which is but an incidental feature of the many substantial advantages possessed by the Company, goes to prove three things:—

First, the Company's strength, calculated on the basis of large assets; second, the high character of the securities in which its assets are invested; and third, the low mortality record, which results from the careful course pursued by the management of the Company in the admission of life risks.

These three points alone would ordinarily be sufficient to indicate the wisdom and prudence that have marked the successful career of the North American Life Assurance Company from the date of its inception up to the present time.

But there are many other points connected with the Company that are worthy of consideration.

It has some excellent plans of insurance to select from, among which the Compound Investment plan is receiving the most patronage by all classes of insurers.

This plan combines the advantages of insurance and investment, which doubtless accounts for its increasing popularity.

Most of the points mentioned are fully stated in the last annual report of the Company, and by making application to the Head Office, Toronto, or to any of the Company's agents, you will receive a copy of the same.

If you feel weak, tired, and all run down, Hood's Sarsaparilla is just what you need to build up strength and purify your blood.

MIDNIGHT DOCTORS are the most unwelcome visitors—even the Doctor himself curses the luck that compelled him to leave his comfortable bed. Suppose you try our method, and keep a Big 25c. Bottle of Perry Davis' PAIN KILLER in the house, and let Doctor Squills stay in his bed and enjoy himself.

SATISFACTION is guaranteed to every one who takes Hood's Sarsaparilla fairly and according to directions. This is the only preparation of which "100 Doses One Dollar" can truly be said.

Have you seen Hood's Rainy Day and Balloon Puzzle? For particulars send to C. I. Hood & Co., Lowell, Mass.

HOOD'S PILLS cure liver ills, jaundice, biliousness, sick headache, constipation.

THE third Congress of Criminal Anthropology will be held at Brussels from August 28 to September 3, 1892.

## Spring Medicine

Seems more than ever a necessity this season, after the mild unhealthful winter, and the unexpected prevalence of the Grip, pneumonia, typhoid fever, etc., leaving nearly everybody weak, exhausted and tired. Hood's Sarsaparilla is just the medicine to overcome that tired feeling, to build up your whole system, purify your blood, impart a good appetite.

### Given Renewed Strength.

The following is from Mr. M. Nighswander, shipper for the Hess Furniture Manufacturing Company, Toronto Junction, Ont.:

"For weakness and poor appetite I have taken Hood's Sarsaparilla and have received benefit from its use. My appetite was improved and my strength renewed. I can recommend it to others as a blood purifier." M. NIGHSWANDER, 105 Quebec Avenue, Toronto Junction, Ont.

### Scrofula Swelling in the Neck.

"This is to certify that after having medical attendance for a long time for enlargement of the glands of the neck, without benefit, I took four bottles of Hood's Sarsaparilla and was entirely cured. The swelling is all gone and my neck is as well as ever, for which I am truly thankful." NETTIE TERRILL, Allisville, Ontario.

## Hood's Sarsaparilla Cures

Where other preparations fail. Try it.

Hood's Pills Cure all Liver Ills.