

A WONDERFUL MACHINE.

Can Record Human Emotions But Can't Detect a Falsehood.

A propos of current newspaper descriptions of a mechanism designed to record human emotions, the London Lancet, in a recent issue, casts scientific doubt on the possibility of any apparatus detecting a liar in his falsehood.

The machine is technically styled a galvanic psychometer. A very weak current is passed through the subject whose electrical resistance is indicated by a faint mirror galvanometer. It is found that variations of resistance occur according as the repose of mind or body is or is not disturbed. Thus, when questions or words implying questions are proposed the extent of the interference with the resistance and the length of time before the variation commences are considered to give some indication as to the degree of emotion caused, but it must be somewhat difficult to judge between the emotion of horror experienced by a person spoken to about a murder of which he is guilty and that of a totally innocent person suddenly accused.

It is pretty certain that the apparatus is useless for detection of falsehood. Notwithstanding this, many interesting results have (according to Dr. Schlob in La Semaine Medicale of February 24) been obtained by experiments carried out by Dr. Veraguth, of Zurich. He found that when mind and body were completely at rest there was a gradual diminution of the current.

A noise, a light touch, reading of an exciting character, mental and cal-

ulation, or the recollection of some exciting incident, all produced—at the end of a few seconds, which may be called the latent period—a marked increase of the current. Dr. Veraguth made observations on patients with anæsthetic regions due to disease of the spinal cord and found that in these circumstances as well as when pericosis had been induced no reflex was produced by tactile, thermic, fer-

ric excitation. A cat, too, which moved on its tail being pinched showed considerable increase of current, but when sensation had been abolished by the anæsthetic, no alteration in the current passing was produced by pinching the tail. In contrast to this it was found that thæmiaesthesia in hysterical patients did not prevent the increase in the current.

Dr. Veraguth finds that the alteration in the electrical resistance, which he calls the psycho-galvanic reflex, is not due to voluntary or involuntary movements on the part of the subject nor to any differences in the contact of the electrodes, nor to endosomatic electric currents in the muscles, nerves or glands, but that it is entirely due to the resistance of the skin and is especially marked in the palmar and plantar regions. The special organs in the skin to which alone he has been able to trace the effect being the sweat glands.

He remarks that there is considerable similarity between the structure of the skin of the heel and palm and that of the electric organ of certain fishes which has the appearance of being a mass of glands.

HAD MICROBE MANIA.

Interesting Story Contributed by a Local Military Man.

When Popples retired wealthy, from the cares of business, he began to look around for a hobby. He tried every method he could think of to fill in the time which he formerly devoted to money making.

He got done over, two pictures which he believed were masterpieces, only to find out that they were not worth more than the canvas. By degrees he got into a habit of sloth, and a morbid introspection led him to believe that he was the victim of one hundred and one diseases. Matters were made worse by the reading of a little brochure on microbes. He imagined he was being assailed on all sides by the deadly bacilli.

He would fight against these pests who were the destroyers of life, and with this end in view, he set out to prolong his days accordingly to his own views.

His house was as famous as the one that "Jack Built." It was microbe proof, just as the nautilus of a bank are burglar proof. Before you could interview the owner you had to disrobe and hand over your microbe-ridden clothes to a lacquey, whose business it was to fumigate them. You went in as a pest and came out pest ridden.

Let it be assumed that you got into the sanctum of Popples after a brief journey through the smallpox, tuberculosis, tetanus and other microbe killing chambers. You would usually find him seated amid, and nearly obscured by dozens of learned treatises on the microbe. There was nothing remarkable about the man with the exception of his bald pate. This, he

told me, was a condition due to particularly devilish microbe, who lived on hair. He had consulted an eminent Parisian specialist with regard to it and he was awaiting apparatus with a view to its extermination.

During the causerie, a waiter brought in a liquor which I learned was a modern elixir of life. It was made of sour milk, a Bulgarian recipe. One might drink it and live to be as old as Moses. I was naturally anxious to know how Popples escaped breathing the germ laden air. When I think of the ingenuity with which this latter danger was avoided, I was filled with admiration for the man. You know and we all know that a microbe cannot live where things are too hot. So it was, that the air that pervaded the Popples mansion, was made to pass through red-hot pipes. The germs not being salamanders or something worse kept out, thus allowing the air thus purified to pass. A cooling and dust ridding process followed, until no sunbeam could show up the note.

As I took leave I couldn't help but remark that everything was planned with consummate cleverness. Then I looked at the man, the creator of these mysteries, the modern alchemist. I felt inclined to write his biography, but I thought enough had been done along these lines already. The fact is, there are many biographies, too many in fact.

It is some time since I interviewed Popples. He is dead now. An earthquake destroyed him and his curiosity shop.

J. NELSON, R. C. R.

MEDICAL SCIENCE ADVANCING FAST.

Formerly doctors prescribed stomach treatment for Catarrh and Bronchitis. They seldom cured and Catarrh has become a national disease. Today the advanced physician fights Catarrh by medicated air. He fills the lungs, nose and throat with the antiseptic vapor of Catarrhzone. Cure then is certain. Easy for Catarrhzone to cure. It contains the essence of pure pine balsams, reaches all the germs and destroys the disease. Every case of Catarrh, Bronchitis and Sore Throat can be cured by Catarrhzone. 25c. and \$1.00 sizes. Sold everywhere. Get it today, for bottle at all dealers.

MAUGERVILLE.

July 26.—Mrs. C. Harry Burns and children, Masters George, Harold and Paul Victor, returned to Fredericton after spending a pleasant time with friends.

The many friends of the late Sena-

tor Perley extend their sympathy to sorrowing relatives and family.

Mrs. Harry Harrison and children are spending the summer at their home.

Mr. Harold LaForest, Fredericton, was the guest of his cousins, Mr. J. B. and Miss Gertrude Killen.

Mr. and Mrs. R. McFadgon, Fredericton, are occupying their summer cottage.

The strawberry festival held by the Sewing Circle of the Baptist church, was well attended and proved a success.

Mrs. Annison Burns and children returned from St. John after a pleasant visit to Mrs. Burns' mother, Mrs. Rogers.

Among the paying guests at McCluskey's Hotel are Mrs. T. Morris and children, Mr. and Mrs. E. W. Chestnut of Fredericton, and daughter, Mrs. Bullock of St. John; also Mrs. Thomas McCready and sister, St. John.

Marriage is a failure—as any spirit will tell you.

ENGLISHMAN FAILS

Hubert Latham's Ship Falls Into the Channel.

WRIGHTS BREAK RECORDS

American Brothers at Fort Meyer Establish New Figures—Latham's Motor Gives Out and He Flops Into the Sea—Canadians at Petawawa Are Busy Getting Their Airship Ready for Flights.

Dover, England, July 28.—Hubert Latham's second attempt to fly across the English Channel ended disastrously yesterday. Almost in the moment of victory his monoplane flattered down into the sea two miles beyond the Admiralty pier, like a bird with a broken wing. Thousands of people crowding the waterfront saw the fall, and for nearly half an hour they were kept in suspense, not knowing whether the daring aviator had met death or had again been rescued from the water.

A flock of large and small craft raced to the scene of the disaster and a pinnace from the British warship Russell, picked up the unlucky flyer and put him aboard the French torpedo boat destroyer Escopette. After a surgeon had attended to his injuries the destroyer brought Latham ashore, and he was taken to the Lord Warden Hotel. His face was damaged and bleeding, and his nose was broken. The machine, badly wrecked, was hoisted from the boat to the dock.

Latham's flight to the moment of its sensational finish, in some respects eclipsed Bleriot's. He made greater speed, being only twenty minutes in the air from the time he left the coast of France. Apparently he steered a straighter course than Bleriot, as he was making directly for Dover when he fell.

Wright Breaks World's Record.

Washington, July 28.—The world's aeroplane record for two men, as to both time and distance, was broken yesterday evening, in a beautiful flight of one hour, twelve minutes and forty seconds—upwards of 50 miles and at a speed averaging about forty miles an hour—by Orville Wright at Fort Meyer, with Lieut. Frank P. Lahm of the Army Signal Corps as passenger. The former record was made last year by his brother Wilbur, joint inventor with him of the machine in which both achievements were performed, at Lens, France, with Prof. Paulhan of the French Institute as passenger. That flight was one hour, nine minutes and thirty seconds. Wilbur was an eager spectator of yesterday's flight by his brother. "You just scooted your brother's record without really damaging it much," remarked a newspaper man to Orville after the flight. "That's all we meant to do," replied Orville, with a smile, which his big brother appreciatively duplicated.

Canadians Hear News.

Petawawa Military Camp, July 28.—Hard at work preparing the "Silver Dart" for tests to be made next week, Messrs. Baldwin and McCurdy were found, when notified that the English channel had at last been crossed by an airship. Nowhere in Canada was the news of Bleriot's monoplane flight across the English channel received with greater interest than within the rude shed miles southeast of the military camp, where the Silver Dart is being put together by Messrs. Baldwin and McCurdy.

"I'll bet it's Bleriot's," said Mr. McCurdy excitedly.

Mr. Baldwin would not venture an opinion as to whether the successful flight had been made by Bleriot or Latham.

Warships of the Future.

Paris, July 28.—Gen. Brun, the new French Minister of War, commenting yesterday on Louis Bleriot's feat in flying across the English Channel last Sunday, says he regards the aeroplane and the submarine as the war instruments of the future.

"The aeroplane," declared the War Minister, "is less vulnerable and more rapid and cheaper than the dirigible, and as soon as it is perfect the French army will be provided with a swarm of these wasps."

Soaking the Yachtsmen.

Toronto, July 28.—Levying a duty of 25 per cent. on a number of pleasure boats which have recently been brought to Canada from the United States is a problem before the Customs Department.

The customs regulations provide that vessels, dredges, scows, yachts, boats or other water-borne craft built outside Canada and destined for use in Canadian waters, not including vessels which trade between a Canadian and an American port, shall pay 25 per cent. duty. In spite of this provision the owners of such importations have so far escaped.

Will Go by Default.

Edmonton, Alta., July 28.—Half a dozen prominent Liberals are in the field for the nomination for the House of Commons to fill the vacancy caused by the death of Dr. McIntyre, ex-M.P. It is said the Conservatives will let the seat go by acclamation.

Pension for Lady Wylie.

London, July 28.—The Government has granted a pension of \$2,500 annually to Lady Wylie, widow of Lt. Col. Wylie, who was assassinated recently by Madari Dhinagari, an Indian student, in the Imperial Institute.

Accidents to Work People.
Industrial accidents occurring in 273 individual work people in Canada during the month of December, 1908, were reported to the Department of Labor at Ottawa. Of these, 85 were fatal and 188 resulted in serious injuries.

In the preceding month there were 124 fatal and 198 non-fatal accidents reported, a total of 322, and in December, 1907, there were 88 fatal and 195 non-fatal accidents, a total of 283.

HOW'S THIS?

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

F. J. CHENEY & CO., Toledo, O.
We the undersigned have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by his firm.

Walding, Kinnar & Marvin,
Wholesale Druggists, Toledo, O.
Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Testimonials sent free. Price 75 cents per bottle. Sold by all Druggists.

Take Hall's Family Pills for constipation.



SEALED TENDERS

Addressed to the undersigned, and endorsed "Tender for Wharf at Leonardville, N.B.," will be received at this office until 5.00 p.m., on Friday, August 20, 1909, for the construction of a wharf at Leonardville, Deer Island, Charlotte County, N.B.

Plans, specifications and form of contract can be seen and forms of tender obtained at this Department and at the offices of E. T. P. Shewen, Esq., Resident Engineer, St. John, N. B., Geoffrey Stead, Esq., Resident Engineer, Chatham, N. B., and on application to the Postmaster at Leonardville.

Persons tendering are notified that tenders will not be considered unless made on the printed forms supplied, and signed with their actual signatures, with their occupations and places of residence. In the case of firms, the actual signature, the nature of the occupation and place of residence of each member of the firm must be given.

Each tender must be accompanied by an accepted cheque on a chartered bank, made payable to the order of the Honorable the Minister of Public Works, for eleven hundred dollars (\$1,100.00), which will be forfeited if the person tendering declines to enter into a contract when called upon to do so, or if he fails to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself to accept the lowest or any tender.

By order,
NAPOLEON TESSIER,
Secretary.

Department of Public Works,
Ottawa, July 22, 1909.

Newspapers will not be paid for this advertisement if they insert it without authority from the Department.

July 26, 1909.

PUBLIC NOTICE

Notice is hereby given that The Canada Loose Leaf Company, Limited, will apply to the City Council of the City of Fredericton for a loan and certain exemptions hereunder set out pursuant to Chapter Thirty Nine, Acts of Assembly, Edward VII.

The Company will make application for exemption from water rates sewerage rate and taxation generally for a term of five years, renewable for a further term of five years, and a loan of three thousand five hundred dollars, repayable in instalments of five hundred dollars annually without interest, the first instalment to be paid five years after the loan is made.

In consideration of such assistance the Company on their part agree to repay such loan as aforesaid and to employ forty five people with a gross annual wage of not less than three hundred and fifty dollars weekly, and to actively carry on the business of manufacturing loose leaf ledgers and other loose leaf devices to the amount of not less than \$50,000 annually. To secure the repayment of such loan by a first mortgage on the building and machinery owned by the Company and to insure the said property with loss, if any, payable to the City of Fredericton to the extent of their interest, and also to give a bond conditioned that the Company will carry out all their agreements as above mentioned.

The said application will be made to the said City Council at their regular monthly meeting to be held on Tuesday evening, the second day of August next.

Dated the twenty fourth day of June, A. D. 1909.

The Canada Loose Leaf Company, Limited, by
FREDERIC HARCOURT,
Managing Director.

June 24th mo.

Our Grand Midsummer Clearance Sale

Is in full swing now. Hundreds of people have taken advantage Saturday last on the opening day of this sale. This sale continues all this week. Seasonable Goods almost given away. Men and Boys Clothing Bargains Never have we given such bargains in Men's Clothing as we are in this midsummer sale, come in and see for yourself. We have no room in this small space to mention our wonderful bargains but see that you get a hand bill of ours and that will convince you of what we call bargains are bargains, it is our aim to give our customers bargains this time of the year. Ask your neighbors if they attended to our sale last Saturday and see what bargains they got. Why we had a lady come back three times to get some goods that she needed, realizing the Bargains she got the first time made her come back the second third time.

Be wise and follow this example.

S. KERNER 450 Queen St.

The Peoples Bargain Store.

Argentina.

The land of Argentina is fertile and under proper conditions would support an immense population and could own practically all of South America. It is one of the three large countries of the earth that could support a large population if absolutely cut off from all other countries. Foreigners fall into the sluggish habits of the Spanish there. The Grain Exchange opens at 4 p.m. and closes at 5. Breakfast is generally about 11 a.m., dinner 7 to 8, and the theaters begin at 10. It is not a country for the vigorous, energetic, money making immigrant. People live there to enjoy life and not to accumulate dollars.

The Garden and the Hen.

Did you ever work for ten hours and make a beautiful garden about the size of a large pocket handkerchief? And then after it was all planted and up did you ever find a hen that looked like a

cross between a greyhound and a quizz-saw right in the middle of it with the air full of young lettuce and radishes? Did you then remember that the hen was made for some useful purpose and that innocent children might be in hearing distance?

His Complaint.

Countryman (to doctor)—Think I ain't well, doctor. The more I eat the less I wants loike. Doctor (impressively)—Ah, yes, of course. You see, everything you eat flies to your stomach.

Letting the Cat Out.

"Say, grandpa, make a noise like a frog," coaxed little Tommy.
"What for, my son?"
"Why, papa says that when you croak we'll get \$5,000.—Success Magazine."

Something New

Fancy Suitings, Fancy Trouserings and Fancy Vestings.

Come in and see them. VERY CHOICE

W. E. SEERY

DUNLOP TIRES

ARE THE BEST

We can always supply you with these, also all other styles of tires.

Queen Street W. C. BURTT F'ton N.B.

New and Second Hand Wheels

G. T. WHEPLEY



Manitoba Oats

Middlings

Bran

Durham

Eagle and

Banner Feeds

Corn Meal

Cracked Corn

G. T. Whelpley

Queen St. Fredericton

Walker Bros.

IMPORTING TAILORS

We wish to announce to our numerous customers and the public that we are sole agents for the Semi-ready clothing and we have a complete line of these goods in stock.

We also wish to announce that our spring stock has just arrived and we invite you to call and see our New spring Goods. Fit and workmanship be best.