

WHAT THE OLD YEAR HAS DONE FOR US

New Things in Science and Invention Discovered in 1896.

THE X-RAY HEADS THE CATALOGUE

Photography Almost Fathoms the Innermost Secrets of the Soul--Sensuring Man's Brain Power--Sun, Wave and Compressed Air Harnessed to Turn the Wheels of Industry, Mole Hills to Be Seen in the Moon.

W. J. Grant, in Pittsburg Dispatch.

Were all the projects now perfected which the brain of man has conceived during the past 12 months, the unpaved air would be our highways; phosphorescence would illumine our homes with a mellow glow like daylight; all our heavy work would be done by wind, tide and compressed air; we would talk by wire with friends in the Antipodes and see them face to face; we would solve the most intricate problems instantly by the application of electricity to our brains; and would photograph not only colors, but has reliefs, voices, dreams and emotions. Such ailments as pneumonia, epilepsy, lockjaw, snake bite and insanity would be as easily cured as the most ordinary cold, and the body itself would be made proof against disease by the injection of microbe killers into the system. To sail to the North Pole by balloon would be an ordinary Saturday evening pleasure trip, and to communicate with the habitations of distant planets would be an everyday occurrence.

No doubt, some of these projects are visionary, but most of them are in the range of probability, for imperfect appliances already exist to achieve such results. They will not find their way into ordinary use, of course, until they are so far improved that it will be economy to discard present methods for them.

THE CHIEF ACHIEVEMENT.

The greatest achievement of the year was at its threshold. It was early in January when Professor Roentgen, of Wurzburg university, astonished the world by showing that such substances as wood, leather, aluminum and human flesh are not opaque, but as transparent as glass, and that there is another and more powerful medium of vision than ordinary light—a mysterious medium which is itself invisible. This discovery was the more surprising because it was never hinted or suggested at before, but was entirely new. It was found that few things were absolutely opaque when Roentgen's "X" rays were turned upon them, and that common glass is harder for these beams to penetrate than thick boards.

No sooner was this discovery announced than the whole civilized world became interested in it, our own country most of all. There was scarcely an inventor or a college laboratory that did not begin experimenting, and almost daily fresh capabilities of the new rays revealed themselves. At first only shadowgraphs were taken by camera and Crookes tubes. Later both these instruments were dispensed with, and by means of the rays, the naked eye pierced wood and tissue, even penetrating the marrow, and gazed upon the inner structure of aged plants.

EXPERIMENTS WITH X-RAYS.

Professor Elmer Gates, of Washington, has utilized the rays in searching the heavens for wonders in astronomy. Dr. Dawson Tucker, of England, has taken shadowgraphs by using a glow worm's light. Professor Salvoni has invented the cryptoscope, which enables one to read through opaque objects with the new rays. Both Edison and Tesla have largely added to our stock of knowledge in the same direction.

AIR TRAVEL.

It has long been the dream of inventors to find some method of navigating the air as easily as we now navigate the sea. Some of the best studies of the scientific world were turned in that direction during 1896, and while some progress was made, have not yet succeeded, unless it is true that Professor Langley's aerodrome has reached the goal.

PROSPECTS OF FINAL SUCCESS.

The expedition which seems most likely to get there is that known as the Jackson-Harmsworth, from England. Its guiding spirit, Mr. Jackson, probably saved Nansen's life by an accident which led to the discovery of the British venture seems to be better conceived and equipped than its competitors. It has a base of supplies on dry land, which can be replenished from time to time by ships from home. It is thus prepared to spend a number of seasons in the Arctic without losing valuable time by returning to civilization. It is established on the vast, little known region called Franz Josef Land, and is working its way northward. If land extends north far enough, the pole will almost certainly be found; if not, the island will anyhow be well explored and mapped for the benefit of future adventurers.

THE PARIS, Cor. Lackawanna and Wyoming Aves Scranton, Pa.

First in Style. First in Quality. Lowest in Prices. A Saving of from 25 to 50 Cents on the Dollar.

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Dr. Frank Clow's telescope, enabling talkers to see each other face to face, though separated by hundreds of miles; and the Italian phonoscope, to detect the presence of disease in the body.

INVENTIONS FOR SLAUGHTER.

These piping times of peace are prolific in inventions for wholesale slaughter in time war. During the year, in the struggle for supremacy between big guns and armor plate, the tide of victory has once more turned toward the guns, through increased power and improved projectiles. Moreover, two types of torpedoes, the torpedo boats, which are now being perfected, the Gatling and the Holland, threaten to make the most powerful battleship as defenseless as a tub.

PHOTOGRAPHIC NOVELTIES.

Discoveries in photography during 1896 have been sufficient to stagger one who has not thought of the collective result. The Roentgen discovery may be considered under this head. Professor Gates has photographed in a dark room with invisible rays of light. The photograph made during the year for the use of the army, pictures the flight of projectiles. Photos in bas-relief, like cammos, have been taken. Further advances in color photography have been made, though the difficulty of printing off the colors from the negatives has not been removed. Dr. Packer, of England, has caught the corona of the sun through a metal film. This human voice has been photographed in Columbia college. M. Hadel, of France, claims he has taken impressions of dreams, each vision of the sleeper making a different shadow on the sensitive plate, and even figures of persons appear which the dreamer, when awake, recognizes as the individuals he saw in his sleep. Equally startling is the assertion of M. Narkierko-Jodko, of Russia, that he has photographed true love; or rather that he has caught the electric discharges exchanged when the lovers clasp hands which discharges are not found in the hand clasp of mere friends.

TO TAKE THE PLACE OF STEAM.

Of more practical benefit to mankind will be the invention of new motors to take the place of steam. One substantial advance has been the harnessing of Niagara Falls, after years of toil on tunnels and masonry. It was during the New York Electrical exhibition that Chauncey Depew, with a current from the falls, flashed a message around the world in four minutes. The same power is now turning the wheels of factories of Buffalo.

PRINCIPLES OF INOCULATION EXTENDED.

During the year the principle of inoculation, which had already proved effective against smallpox, hydrophobia now awaiting a more profligate sea and diphtheria, has been extended to the cure of lockjaw, snake-bite and insanity. Prof. W. H. Henshaw, of the University of Elyria, O., who draws off the poisonous matter by producing artificial abscesses where they can easily be removed by the knife.

UNIONDALE.

Mrs. Samuel White, of Peckville, was a guest of Mrs. John Bars Thursday. Ira Ryder departed this life on Wednesday morning. He had been ailing for some time, but was not considered seriously ill until Saturday. Dr. Shields, of Scranton, was called and pronounced his case a hopeless one. It being heart trouble. His funeral will take place on Saturday. The Rev. Arthur Osburn, of Watery Springs, York state, officiating. Deceased leaves a wife and two children. Mrs. Elias Westgate and other relatives will be in place. Mr. Ryder has been postmaster during the present administration and kept grocery store in connection with his office.

HONDSDALE.

From present appearances all the voters in the county will have an opportunity to record their preference for United States senator. L. O. Grambs and T. A. Lighthizer, of Hondsdales, will open a wholesale shoe store in Scranton. Miss Cora Deane's father are visiting friends in Scranton. A. Q. Seaman's comedy, "Slide Tracked," will be presented at the opera house January 5. Diagram opens at Bader & Krantz's Saturday morning.

CITY SCAVENGER.

A. B. BRIGGS CLEANS PRIVY VALVES and cess pools, to order improved traps, etc. Leave orders 100 North Main avenue, or Essex drug store, corner Adams and Mulberry. Telephone 445.

PROFITABLE SPECULATION.

IN GRAIN, PROVISIONS AND STOCKS. Send for our "booklet" explaining our low; we make money for our customers; deal with a responsible firm; bank references. A. F. BOYD & CO., Bankers and Brokers, 7 Pine street, New York.

CHIROPODIST AND MANICURE.

CORN, BUNIONS AND INGROWING nails, treated without the least pain or drawing blood. Consultation and advice given free. E. M. BETHEL, Chiropodist, 39 Lackawanna avenue. Ladies attended at their residence if desired. Charges moderate.

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AAA-WANTED MEN AND WOMEN. A young and old to work for us in their own homes in spare time, day or evening. We pay \$10 per week, cash on hand. Any child can do the work. Send address today. We send you a sample book gratis. ART CO., Dept. 27, 111 E. 10th St., Chicago, Ill.

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25 per cent commission; no salary; no free. Address L. N. CO., Station L, New York.

STOCKHOLDERS MEETING.

THE ANNUAL STOCKHOLDERS MEETING of the Western Mill Company will be held at the First National Bank of Scranton, Saturday evening, Jan. 3, 1897, at 8 o'clock. A. W. DICKSON, Secretary.

THE ANNUAL MEETING OF THE STOCKHOLDERS OF THE THIRD NATIONAL BANK OF SCRANTON.

will be held at the bank building, on Tuesday, January 12, 1897, between the hours of 3 and 4 p. m. HENRY BELL, Secy.

NOTICE IS HEREBY GIVEN THAT THE

annual meeting of the directors and the transaction of such other business as may properly come before it will be held on Wednesday, January 20, 1897, at the hour of 10 o'clock a. m. at the office of the company in Scranton, Pa., in accordance with the by-laws of the company. L. W. WATKINS, President. Attest: T. H. WATKINS, Secretary.

VIEWERS NOTICE.

IN THE MATTER OF THE PETITION OF the city of Scranton for the appointment of Viewers to ascertain the costs, damages and expenses, and assess the benefits of the construction of sewer of Robinson street, Lebanon place, Chestnut avenue and Price street. In the Court of Common Pleas, No. 4, November term, 1896.

Standing in reply to the following parties in interest that the undersigned viewers, duly appointed by the court in the foregoing matter, have properly come before you, showing the damages, costs and expenses ascertained and allowed, and the benefits assessed for the foregoing improvement, and that said viewers will meet and exhibit the same at No. 224 Lackawanna street, on Wednesday, January 7, 1897, at 9 o'clock a. m., and will then and thereupon hear all objections and arguments thereon. Philip T. Longman, Patrick O'Connell, Martin Donnelly, Mrs. F. M. J. A. J. Goodman, Mrs. James Howarth, Secy.

VIEWERS.

J. ELLIOT ROSS, 425 Spruce street, Scranton, Pa. MORGAN LAKE.

LOST.

LOST-A WHITE BULL PUP; FINDER will be suitably rewarded upon return to W. H. LEX, JR., 283 Monroe street.

SITUATIONS WANTED.

SITUATION WANTED-BY EXPERIENCED bookkeeper, 20 years' experience; neat penmanship; good references. Address QUICK, Tribune office.

SITUATION WANTED-BY AN EXPERIENCED

engineer, as engineer, draughtsman or estimator; 10 years' experience; generally useful; good references furnished. E. C., 319 Linden street.

SITUATION WANTED-TO GO OUT

washing and ironing; washing and ironing taken home also. Call or address L. K., 318 Locust street.

SITUATION WANTED-BY A MIDDLE

aged man as driver or teamster; understands care of horses. W. H., 215 Jefferson avenue.

DRUG CLERK WANTS POSITION-REG-

istered A. S. references. Address ERNEST GROSS, Wyoming, Pa.

WANTED-BY MARRIED MAN, SITU-

ation as engineer, draughtsman or estimator; 10 years' experience; generally useful; good references furnished. E. C., 319 Linden street.

SITUATION WANTED-TO DO WASHING

and ironing at home or go out by the day or night; cleaning office; will give perfect satisfaction at any place. Call or address A. B., 261 North Sumner avenue.

PROFESSIONAL CARDS.

Physicians and Surgeons. DR. MARTHA S. EVERETT, 308 Washington ave. Office hours until 10 a. m.; 2 to 4, 6 to 8 p. m.

MARY A. SHEPHERD, M. D., No. 222 Adams avenue.

DR. A. TRAPOLD, SPECIALIST IN Diseases of Women, corner Wyoming avenue and Spruce street, Scranton, Pa. Office hours, Thursday and Saturday, 9 a. m. to 9 p. m.

DR. COMEGYS-OFFICE NO. 227 N. Washington ave. Hours, 12 m. to 3 p. m., Diseases of women a specialty. Telephone No. 222.

DR. W. E. ALLEN, 62 NORTH WASHINGTON AVENUE, 328 WYOMING AVENUE. DR. ANNA T. LAW, 328 WYOMING AVENUE. Office hours, 9-11 a. m., 1-3 p. m., 7-9 p. m.

DR. L. M. GATES, 125 WASHINGTON AVENUE. Office hours, 8 to 9 a. m., 1:30 to 3 and 7 to 8 p. m. Residence 303 Madison avenue.

DR. C. L. FRESA, SPECIALIST IN Rupture, Truss Fitting and Pat Reduction. Rooms 206 and 207 Meigs Building, Office telephone 1252. Hours: 10 to 12, 2 to 4, 7 to 9.

DR. S. W. LAMEREAUX, A SPECIAL-

izing of birds rather than human speech. Delving into the mighty ruins of ancient Egypt has yielded further results. For the first time a trace has been found there of the presence of the Ishtarite. It is in the form of a hieroglyphic inscription. Professor Flinders Petrie being the discoverer.

EXPLORATIONS IN VENEZUELA.

Professor Mark Henry, of London, has explored the interior of the Orinoco region in Venezuela, bringing to light hieroglyphics which seem to point to a Phoenician origin. In Mexico ruins of a great city have been found in the state of Chiapas.

IF WE STRETCH THE WORD "GEOGRAPHY"

to include astronomy, which is simply the geography of the universe, we may note several steps taken in advance. The corona of the sun—that is, its fiery envelope—has been photographed and found to be of electrical nature. The streamers which issue from it have a close connection with sun spots, and the various changes of both, it is believed, have great influence over our terrestrial climate. It is hoped that the study of these solar activities will enable future meteorologists to exactly forecast the weather in advance.

RETURN OF PERRINE'S COMET.

Perrine's comet revisited the visible heavens in March. For a time it seemed to be headed directly for our world, but it vanished before the naked eye could discern it.

HELP WANTED-MALES.

WANTED-MEN WISHING TO TAKE Civil Service Examinations, soon to occur in Scranton for postoffice clerks, and clerks to write for valuable information from U. S. BUREAU OF INFORMATION, Cincinnati Ohio.

WANTED-AN IDEA, WHO CAN THINK

of some simple way to represent a project your ideas; they may bring you wealth. Write JOHN WEDDERBURN & CO., Dept. C, 22 East Attorney's, Washington, D. C. for their \$180 prize order and list of 200 inventions wanted.

WANTED-AS AGENT IN EVERY SECTION

to carry \$400 to represent a day made; sells at slight above a man to sell Staple Goods to dealers; best side line \$70 a Month; salary and expenses made; experience unnecessary. Clifton Soap and Manufacturing Co., Cincinnati, O.

WANTED-WELL-KNOWN MAN IN

every town to solicit subscriptions to a monthly, big money for rent; no capital required. EDWARD C. FISH & CO., Horton Block, Chicago, Ill.

HELP WANTED-FEMALES.

LADIES-MAKE BIG WAGES DOING pleasant home work, and will gladly send full particulars to all sending 2 cent stamp. MISS M. A. STEBBINS, Lawrence, Mich.

WANTED-LADY AGENTS IN SCRANTON

to sell and introduce Snyder's cake; experienced canvasser preferred; work permanent and very profitable. Write for particulars at once and get benefit of holiday trade. T. B. SNYDER & CO., Cincinnati, O.

WANTED IMMEDIATELY-TWO ENER-

getic persons to represent us. Guaranteed \$5 a day without interfering with other duties. Healthful occupation. Permanent and very profitable. Write for particulars at once and get benefit of holiday trade. T. B. SNYDER & CO., Cincinnati, O.

BOARD WANTED.

FOR MAN AND WIFE, NEAR PUBLIC Library. Address A. A., Tribune office.

FOR SALE.

FOR SALE-A SILVER-PLATED CONN Double bell radiometer, newly engraved with artistic designs, ready for use and cost \$95 will sell at a bargain. Address this week to E. W. GAYLOR, Lakawanna, Pa.

FOR SALE-HOUSE, AGED SIX YEARS

weight 1,000 pounds; can be seen at 1021 Price street.

FOR RENT.

FOR RENT-THREE FLOORS OVER No. 429 Spruce street, now occupied by the Bowling Association; possession April 1st. Inquire of FRED WAGNER, 511 Lackawanna avenue.

FOR RENT-NICE 2-ROOM HOUSE, 72

Washington avenue; all modern improvements; by February 1.

FOR RENT-HALF OF DOUBLE HOUSE;

modern improvements; rent reasonable; corner of Erie and Hickory streets, Dunsmuir.

FINANCIAL.

100 Certified checks for ten times the face amount will be given to any one who can truthfully say he has paid \$100 and money through interest earned in our syndicate. Checks OCT 3d, mailed every Saturday. Highest bank references. Write for particulars, SAM KELLER & CO., Bankers and Brokers, 44 Broadway, New York.

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