

### AN ACCURATE CLOCK.

The Timepiece in the Observatory of Columbia University. In the observatory of Columbia university is one of the most accurate clocks in the world. It has run for several months with a mean error of only fifteen-thousandths of a second and a maximum error of thirty-thousandths of a second per day. That means that it does not vary more than half a second a month, or six seconds a year.

Compare this with the first pocket timepiece, the "animated egg of Nuremberg," which required winding twice a day and varied an hour and a half in the same time! Compare it with some of the highest priced watches manufactured today, which often vary more than ten seconds a week, and you will have some idea of the refinements in the science of measuring time. Yet even this accuracy is surpassed by some famous timepieces, if the trade magazines are to be believed. There have been accounts in them of clocks or watches that have varied less than a second in periods as long as ten years.

The clock at the University of Columbia is an astronomical clock. It is surrounded by a glass case in which a partial vacuum is maintained, and in order that the case may not be opened or disturbed the winding is done automatically by electricity. The clock is set up in a room especially constructed to keep it free from jar or vibration. The temperature and barometric conditions are maintained practically constant, and every possible precaution is taken to minimize the errors of the running mate.—New York World.

## Weak Kidneys

Causes more trouble than any other organ of the body. The function of the kidneys is to separate inorganic salt and water in the process of circulation, and to remove them and the abundant poisons from the body through the bladder. Therefore when the kidneys become diseased and weak they are naturally unable to perform their work properly, and poisons in the back, inflammation of the bladder and urinary disorders are the result. It is imperative that a prompt relief be afforded, which is impossible unless you remove the cause.

**DeWitt's Kidney and Bladder Pills** promptly eliminate poisons from the system and at the same time make the kidneys well and strong.

For Weak Kidneys, Backache, inflammation of the bladder and all urinary troubles DeWitt's Kidney and Bladder Pills are unsurpassed.

**A Week's Treatment for 25c.** Money back if they fail.

E. A. PFEFFERLE

## Dr. Rea Specialist

Eye, Ear, Nose, Throat, Lungs, Diseases of Men, Diseases of Women Chronic Diseases.

Visiting Minnesota Towns Every Month for 15 Years.

Next Regular Professional Visit to New Ulm at Dakota House.

Thursday, Nov. 12,

From 9 a. m. until 3:30 p. m.

ONE DAY ONLY

Returning Every Four Weeks

Dr. Rea has made more remarkable cures in the Northwestern States than any living man.



Dr. Rea has been educated in the best hospitals of Europe and America. Consultation in German and English.

All curable medical and surgical diseases—Eye, Ear, Nose and Throat, Lung Diseases, Early Consumption, Bronchitis, Bronchial Catarrh, Constitutional Catarrh, Nasal Catarrh, Dypsyria, Sick Headache, Stomach and bowel Troubles, Appendicitis, Rheumatism, Neuralgia, Sciatica, Bright's Disease, Diabetes, Kidney, Liver, Bladder Troubles, Prostatic and Female Diseases, Dizziness, Nervousness, Indigestion, Obesity, Interrupted Nutrition, Slow Growth in Children, and all wasting disease in adults. Many cases of Deafness, Ringing in the Ears, Loss of Eyesight, Cataract, Cross Eyes, etc., that have been improperly treated can be easily restored. Deformities, Club Feet, Curvature of the Spine, Disease of the Brain, Paralysis, Epilepsy, Heart Disease, Dropsy, Swelling of the Limbs, Stricture, Open Sores, Pain in the Bones, Granular Enlargements, and all long-standing diseases properly treated. Young, Middle-aged and old, single or married men, and all who suffer from lost manhood, nervous debility, spermatorrhea, seminal losses, sexual decay, falling memory, weak eyes, stunted development, lack of energy, impoverished blood, pimples, impediments to marriage, blood and skin diseases, syphilis, Eruptions, Hair Falling, Swellings, Sore Throat, Ulcers, Weak Back, Burning Urine, passing urine too often, Gonorrhoea, Gleet, Stricture, receive searching treatment, prompt relief and cure for life.

Tumors, Gout, Fistula, Piles,

Varicose Veins, Rupture and enlarged glands treated and cured without pain and without the loss of blood. This is one of his own discoveries, and is really the most scientific and certainly sure cures of the nineteenth century. Consultation to those interested, \$1.00. No incurable cases taken with a guarantee to cure.

DR. REA & CO.

292 Nicollet Ave. Minneapolis, Minn

## W.D. CORNISH DEAD

Railroad Man Formerly a Well Known Minnesotan.

MEMBER OF THE LEGISLATURE

Also Served as Judge of the District Court.

William D. Cornish of New York, second vice president of the Union Pacific Railroad company and a director in many other corporations, was found dead in his bed at the Auditorium Annex at Chicago. Death apparently was due to heart disease.

William D. Cornish was born in Plymouth, Mass., about fifty-nine years ago. In August, 1870, he removed to St. Paul and commenced the practice of law, in which he continued for some time, except for a period of a little more than two years when he was upon the bench. He was a member of the city council from 1880 to 1885 and a member of the state house of representatives in 1883 and 1885. In November, 1890, he was appointed judge of the district court of the then Second judicial district and served in that position until Jan. 1, 1893. At that time he was appointed master in chancery in connection with the receivership of the Union Pacific railroad and allied companies. The United States government, holding a second lien for about \$60,000,000, had joined with the bondholders in the movement to conserve the properties and the foreclosure that followed those receiverships in turn were followed by the reorganization three or four years later which was the basis of the Union Pacific Railroad company and its allied lines of today.

### MULHALL SENTENCED.

Minneapolis Man Sent to Prison for Fifteen Months.

James T. Mulhall was sentenced at Minneapolis to fifteen months at the federal prison at Leavenworth, Kan.; Edgar McConkey to one year and one day at Leavenworth, and Felix Nathanson to six months in the county jail by Judge Milton Purdy.

A stay of ten days pending appeal for a writ of error was granted.

After nearly six hours' deliberation the federal jury returned a verdict of guilty against the three men charged with conspiracy to defraud by the use of the mails.

The crime with which the men are charged is one of conspiracy to defraud. Alleged fraudulent operation of the Nicollet Creamery company in Minneapolis last fall is the specific charge in the indictment upon which the men were convicted. Farmers throughout the Northwest are said to have lost heavily by shipping produce which was never paid for.

### QUARREL ENDS IN MURDER

Lad Deliberately Loads Rifle and Kills Neighbor's Son.

John Bushaway, Jr., the ten-year-old son of John Bushaway of West Brainerd, was instantly killed, it is alleged, by Ralph Murray, the eleven-year-old son of a neighbor.

The boys had quarreled and young Murray and a companion, it is said, went to the Murray house and got a rifle and loaded it, Murray then shooting Bushaway in the throat, killing him instantly. The only witness to the crime was Frank Bushaway, an eight-year-old brother of the victim.

The two Bushaway boys were piling brush across the street from the Murray home when the tragedy occurred.

### FOUR MEN BADLY INJURED

Two Victims of Accident at Duluth May Die.

Four men were injured, two of them fatally, on the new courthouse at Duluth. It is said Charles Nichols, foreman for Contractors Lanquist & Hilsley of Chicago, will die, and that Fred Mooney of Duluth, a structural ironworker, cannot survive his injuries.

Two other men, H. and Thomas Hanson, were also seriously hurt.

The mast of the derrick slipped from its socket and the men fell from the fifth to the first floor. It is a wonder that all were not killed instantly.

### Woman Gored by a Bull.

Lying in a hospital at Winona Mrs. Thomas Griffith of Hooper, Winona county, is the survivor of the most frightful experience that has ever befallen a resident of that vicinity. She was terribly gored by a bull, which attacked her while she was crossing a pasture, and before the unfortunate woman had an opportunity to get out of his way struck her full on one side with both horns, bearing her down and tearing frightful wounds through her thigh and hip.

### Killed by a Train.

S. L. Richardson of Minneapolis was killed by a Soo work train half a mile west of Bulwer Junction, a station about twelve miles northwest of St. Paul. Mr. Richardson, who was a collector for the Minneapolis Tribune, was walking along the tracks toward New Brighton, when he was struck by the engine of the work train. He was hurled some distance from the track and instantly killed.

### JURY'S CRITICISM CAUSTIC

Result of Minneapolis Board of Education Probe.

Declaring that the investigation of the affairs of the Minneapolis board of education has disclosed a "startling and deplorably loose state of affairs" the Hennepin county grand jury made a report dealing with the results of its investigation.

In addition to severely criticizing the board of education and suggesting changes which should be made in the board methods the grand jury discusses the enforcing of the law. Altogether the report is one of the most complete and startling documents ever been presented to the district court by a Hennepin county grand jury.

Not only does the grand jury, in dealing with the school board investigation, criticize members of the board of education and employees of the board, but the American Book company and its agent in Minneapolis, Major A. W. Clancy, are arraigned for their connection with the board of education. Going further, the grand jury charges that Major Clancy has taken an active interest in the election of members of the Minneapolis board of education and that he has taken a hand in state politics and in the choice of a state superintendent of schools.

### WRECK IN MINNEAPOLIS.

State Fisheries Superintendent and Companions Injured.

Samuel F. Fullerton, superintendent of state fisheries, and his companions miraculously escaped death in a wreck in the Minneapolis and St. Louis railroad yards at Minneapolis. The state fish car was badly wrecked and two other coaches were derailed.

The wrecked coach was occupied by Mr. Fullerton, W. H. Fullerton, his son; Mr. Baldwin Hubbell of Mamora, Ont.; Harry A. Baxter of St. Paul, Northern Pacific conductor, and George Moker, porter. W. R. Fullerton, the son, was most seriously hurt. The others received painful injuries and all a severe shakeup.

A mistake in signals resulted in a Great Northern train crashing into the private car, which was attached to the rear of a Northern Pacific train.

### NINETY-EIGHT HORSES DEAD

Man May Have Perished in St. Paul Livery Stable Fire.

One man probably was burned to death, ninety-eight horses were cremated and a number of valuable carriages destroyed and a near panic started in the Angus hotel by a fire which destroyed the livery stable of John C. Shea at St. Paul.

Sensational escapes were made by fourteen men who slept in the building, but as one man, Olaf Johnson, is missing it is believed that he perished in the flames.

The Angus hotel is very near the livery stable and the fire burned with such rapidity that it nearly caused a panic among the guests and but for the cooler heads some must have been injured in the rush for the open air.

### Wisconsin Defeats Minnesota.

In the scrappiest and hardest football battle fought in the West this season the University of Minnesota eleven went down before the Wisconsin team by a score of 5 to 0. The game was clean throughout and although a defeat for Minnesota the Copher rooters are satisfied that each man on the Maroon and Gold team put forth all that was in him.

### Two Aged Farmers Killed.

Herman Krause and William Wandering, both about sixty years of age, pioneer farmers of Wright county, were run down by a Soo line passenger train while on their way to the polls to vote and were almost instantly killed. Emil Krause, a son of one of the dead men, was fatally injured and died later. The fourth man escaped by jumping.

### Killed in Street Car Accident.

Raymond McCoy, sixteen years of age, a sophomore at the St. Paul Central high school, was killed in a street car accident while riding on one of the wagons of the United States Express company. He died from a fractured skull in the police ambulance while being taken to St. Joseph's hospital.

### Dies Suddenly in Jail.

C. K. Austin, forty-eight years of age, whose home is thought to be in Chicago, died suddenly in the county jail at St. Paul. Coroner Arthur W. Miller was notified and after an examination of the body decided that death resulted from alcoholism.

### Aged Man Killed by a Train.

Minneapolis grade crossings, which have been long feared death traps, added another victim to their long list when W. L. Daniels, sixty-three years old, was instantly killed by an outgoing St. Paul train between Snelling and Minnehaha avenues.

### Shot for His Board Bill.

Because John Demino of Eveleth refused to pay him a board bill amounting to \$20 Marco Roma, a boarding house keeper at the Gilbert location, it is alleged, shot him five times. Demino is in a hospital at Eveleth and will not live.

### School Superintendent Suicides.

F. O. King, superintendent of schools at Aitkin for the past six years, committed suicide by taking poison. Poor health and overwork had unsettled his reason. He was forty-two years of age.

## TO STUDY OUR CLAYS

General Investigation to Be Made by Experts.

LITTLE KNOWN ON SUBJECT.

Work Undertaken at Request of Federal Officials in Charge of Construction Work—Many Manufacturing Failures Due to Wrong Selection of Clay Deposits.

At the request of federal officials in charge of the construction work of the government, which now amounts to more than \$40,000,000 annually, the United States geological survey, through its technologic branch, has taken up a general investigation of the clays and clay products of the United States. A ceramic section has been created, with A. V. Bleining of Champaign, Ill., as ceramic chemist.

Government engineers, started at the enormous losses from fire in the United States and the consequent destruction of valuable natural resources, have been endeavoring for some time to learn more about the fire resisting qualities of structural materials, not only to stop the present waste, but also to preserve, if possible, the waning timber supply. It was for this reason that the government a few years ago took up a scientific study of concrete, which is now being used extensively in government construction work.

Clay products, such as hollow tile, fireproofing, terra cotta, enameled brick and glazed tile, play an important part in modern fireproof buildings, and these are to be tested for the different construction purposes of the government. This will insure the highest quality of ware obtainable in the industry for the government buildings. A series of tests will also be conducted with bricks in order that a standard may be arrived at for the use of the engineers in the future.

Mr. Bleining, the clay expert, is one of the leading authorities in his line in the United States. In outlining his work he said: "The coming tests, although conducted to meet the needs of the government, will be of great value to the engineering profession and the public, for the results will be obtainable by any one sufficiently interested to ask for them."

"An important phase of the work will be the determining of a standard for a good brick. We shall study the relation between the crushing strength of commercial bricks and their porosity, the object being the establishing of a technical definition for a good building brick, thus enabling engineers and builders to reject poor materials and encouraging the manufacturers of well made and burnt bricks. At the present time we do not know the difference between a good and a bad brick. Another feature of the work will consist in evolving standard tests of clays for the purpose of determining the use to which they are best suited, thus assisting in the development of the clay resources of the country and avoiding the great money losses caused by ill advised investments in low grade clay properties. An examination of many failures of new clay enterprises may frequently be traced back to a mistake made in the selection of the clay deposit.

"Strange as it may seem, we do not fully understand such familiar properties as the plasticity of clay. Neither is the nature of the various grades of clay clearly understood. Another phase of the work deals with the general manufacturing problem. I might mention the important question of 'white wash' appearing on brick walls, a difficulty causing serious annoyance and loss to manufacturers and users of bricks by marring the beauty of many structures.

"The clay industry is one of the most important in the country. Last year the value of such products amounted to \$149,697,000, a gain of 14 per cent over the previous year. We are slowly realizing that it is not necessary to import clay or clay products from Europe. An American manufacturer has demonstrated that he can make as fine china and porcelain as any one in the world. We import the finer grades of glass, but this is unnecessary. We have the silicates here. The best cut glass in the world is made in the United States."

### Professor Newcombe on Aviation.

Professor Simon Newcombe, astronomer, has interesting views with respect to the problems of aviation. He rules out the possible use of a dirigible balloon for any more serious military purpose than reconnoitering. With respect to the aeroplane, such as is employed by the Wright brothers, he has little faith in its solving the problem of air flight. He shows that the heavier than air machine cannot be stopped in midair for repairs, and "no engine yet built by human skill, much less the delicate motors necessary in the flier, can be guaranteed against accident." The conclusion of this scientist is that aerial navigation must ever remain "uncertain, dangerous, expensive and inefficient."

### Cutting of the Cullinan Diamond.

The cutting of the Cullinan diamond, which cost \$50,000, is now complete, says a cable dispatch from Amsterdam. The stone has been divided into seven parts, exclusive of the big one, which will go by the name of Cullinan. Six of these small stones are being made into a necklace, with the seventh, which is somewhat larger, as a pendant, and will be presented by the king to Queen Alexandra.

### CUBA'S FIRST PRESIDENT.

Dramatic Scene in Tomas Estrada Palma's Career.

In recalling some of the incidents of the life of the late Tomas Estrada Palma, who was the first president of the Cuban republic, Senor Francisco E. Fonseca, who was born and reared in the same province and within a stone's throw of General Palma's home in the province of Santiago, Cuba, said: "The most dramatic scene in General Palma's long struggle for the freedom of Cuba may be said to have occurred after he was taken to Spain as a prisoner in 1867. The usual questions were put to him, among which was: 'What is your profession?' To which he replied, 'I am president of the republic of Cuba.'

"The reply did not suit the Spanish inquisitors, and they repeated their question with greater vigor, but got the same reply, General Palma retaining his quiet but emphatic manner. He was so intense that his questioners became excited and threatened the most severe punishment unless General Palma became 'more plastic, but even this did not disturb him, for he replied in the same way, adding: 'That is my occupation, and my only one at present and so long as my people care to confide this trust in me. If you reject my plea, then I must go to an honorable exile or such other punishment as you determine upon or dishonorably impose.'

"And for this he was imprisoned, not to die, however, but later to become the president of the republic of Cuba through the loyal support of the United States.

"But President Palma was also a man of the deepest and tenderest feelings. One of the most touching things I ever heard of about any one was in relation to his mother, who died from the tortures visited upon her by the Spaniards back in 1878. General Palma had returned from the Spanish prison and naturally started to see his aged parent. Upon arriving at Bayamo he was conducted to the pen where his mother had been confined by Spanish orders, but to see only her body, for she had died a few hours before. Stepping down to kiss her cheek, he saw in her hand a handkerchief, and he took it, kissed it and put it carefully away in his bosom. He carried that handkerchief always after that day. He was once asked for it to be placed on exhibition, but remarked, 'No; the memory of my mother is too sacred to think of parting with such a dear memento.'

### PAYING AN ELECTION BET.

Dancer Wearing a Barrel Walked a Block on Broadway, New York.

One of the first of freak election bets to be paid was settled the other morning in New York by Miss Della Connor, a dancer in "Marcelle," at the Casino theater, much to the amusement of Broadway pedestrians in general and a host of small boys. Miss Connor bet a friend in the theater that Bryan would be elected. In the event of losing the wager she agreed to walk around the Casino theater in a barrel.

At 10:30 Miss Connor emerged from the front door of the playhouse, shoes, ankles, shoulders, arms, head and a mammoth picture hat in sight and wildly clutching at the sides of a sugar barrel. She found it impossible to hold up her hoop "gown" and navigate, so her initial effort was declared a false start, and David Bennett, her husband, and the stage manager came to her rescue.

Bennet led his wife inside the theater, took off his suspenders and nailed them to the barrel. When Miss Connor again appeared the barrel hung from her shoulders gracefully.

She sheathed she made the circuit of the block to the stage door, followed by a delighted though critical audience.

### UNIQUE \$5 GOLD PIECES.

Design Depressed in New Coinage Instead of Raised.

The mints at Philadelphia, San Francisco and Denver recently began coining a new five dollar gold piece struck on a different plan from any heretofore coined in the world. It follows an idea expressed to President Roosevelt by Dr. William Sturgis Bigelow of Boston that to permit the coins being piled to a uniform height a high or strong relief might be obtained by depressing the design below the field or face of the coin instead of raising it above, as usual in all coining operations.

This would provide a flat field and a uniform thickness, the flat surface taking the wear and protecting the relief, the shape of the depression following the outline of the relief. The same design will be used on the \$2.50 pieces, and all will bear "In God We Trust."

While never applied to coins, the countersinking relief is one of the oldest forms of sculpture in stone.

### Elkins and the Snapshot.

Friends of Senator Stephen B. Elkins say he is disgusted with the widespread discussion of the proposed marriage of his daughter Katherine and the Duke of the Abruzzi.

"Why, I have no privacy any more even in my own grounds," the senator complained to a business associate. "The other day I was chased all over my place by a photographer, and he finally cornered me in the chicken coop. I am tired of this sort of thing, and it has got to stop."

### The Change.

And now the small American As yet too young to vote Must put away his Teddy-bear And have a Billy-goat. —Boston Herald.

### Watched Fifteen Years.

"For fifteen years I have watched the working of Buckle's Arnica Salve; and it has never failed to cure any sore, boil, ulcer or burn to which it was applied. It has saved us many a doctor bill," says A. F. Hardy, of East Wilton, Maine. 25c. at O. M. Oisens drug store

### Exacting.

"My present patient," said the pretty nurse, "is a very peevish millionaire. 'Never mind. He may ask you to marry him.' 'Yes; he may. He has about run out of other requests.'"

### Send Your Cattle and Horse Hides

to the Crosby Frisian Fur Company, Rochester, N. Y., and have them converted into coats, robes, rugs, gloves and mittens; better and cheaper goods than you can buy. Never mind the distance. Crosby pays the freight. See our new illustrated catalog page 18. If interested send for it

### Pearls of the Deep.

Kitty—Norton met a girl on board the liner, and before they got to the other side he was engaged to her. What do you think of that? Tom—It only goes to show that not all the perils of ocean travel have been eliminated yet.

### Ask for Allen's Foot-Ease,

A powder for swollen, tired, hot, smarting feet. Sample sent Free. Also Free Sample of the Foot-Ease Sanitary Corn-Pad, a new invention. Address, Allen S. Olmsted, Le Roy, N. Y.

### Diplomacy.

"Who did this?" "Oh, sir, I don't like to blame anybody." "Noble youth! For your sake I'll forgive him. But who did it?" "I did, sir!"

### Shall We Tan Your Hide?

The average Stock Raiser hardly realizes the value of cow, steer and horse hides when converted into fur coats, robes and rugs. Get the new illustrated catalog of the Crosby Frisian Fur Co., Rochester, N. Y. It will be a revelation to you. And "Crosby pays the freight."

### WEAK MAN RECEIPT Free

Any man who suffers with nervous debility, loss of natural power, weak back, falling memory or deficient manhood, brought on by excessive dissipation, unnatural drains or the follies of youth, may cure himself at home with a simple prescription that I will gladly send free, in a plain sealed envelope, to any man who will write for it. A. E. Robinson, 3864 Luck Building, Detroit, Michigan.