EARLY HISTORY OF ENGINEERING AS YET UNTOLD

Extraordinary Monuments Antedate Earliest Written Records of Man.

CAN ONLY GUESS AT METHODS USED

Ancient Practised on Scale and With Ingenuity Perfectly Astounding to Moderns.

Engineering is a profession so old that it has never been traced to its beginnings. When we get back to the misty boundary between the earliest accurate historical records and that vague time which we know as "pre-history," we find extraordinary monuments to the genius of engineering which have already been standig for centuries. All the recent progress of archaeological discoveries has not brought our knowledge of the pyramids of Egypt, for instance, beyond the speculative stage, yet they are among the engineering marvels of all time. The methods employed in the construction of the Grand Canal of China, a waterway seven hundred miles long, with seventy-five locks, built thirty centuries ago, can only be guessed at. The prehistoric draining of Lake Copais by a tunnel four miles long, of finished workmanship, penetrating sometimes to a depth of one hundred and fifty feet, is shrouded in mystery. The triliths of Stonehenge, the erection of the Egyptian obelisks, the building of the great monuments recently discovered in Yucatan, Peru andw Mexico, the tunnel under the Euphrates dug probably four thousand years ago, and countless other examples, prove that not only was engineering exceedingly important in prehistoric times, but that it was practised on a scale and with an ingenuity that is perfectly astounding in the light of our modern knowledge of applied science.

Moderns Stand Aghast

The modern engineer, given the job of building a Cheops pyramid, with al lthe new methods of construction and all the best inventions of modern machinery—drills and dynamite to quarry the rock, railroads and steam navigation to transport it, and cranes to lift it into place—would realize that he was confronted with a problem that would require his most concentrated effort. Imagine his position, however, if you took from him every device based on such simple mechanical movements as that of the wheels and the pulley, all power derived from harnessing the forces of nature, and gave him nothing but the crudest cutting tools, wooden sledges, ropes, the lever and the inclined plane, and the services of one hundred thousand men! He would then be in somewhat the same situation as the engineers of the fourth dynasty in Egypt, who, nevertheless, performed the feat which has endured from their day to ours through all the growth of our civilization.

Monuments to Genius

The relics of the stone age, the Stonehenge temple, the dolmens, the lake-dwellings of Switzerland, are brilliant examples of the working of the primitive constructive instinct. In these early tims we see the constant effort of all the human faculties to live up to the vision of the dreamer. The imagination of the stone-age man worked on a large scale. The dream of the man who conceived the idea of the Brooklyn Bridge, the Eiffel Tower, or the Woolworth Building was nothing in magnitude to the conceit of the sun-worshipper who planned one of the early monuments of the stone age, because the available resources for the accomplishment of his ideal were infinitely less. His tools were rudely cut by stone from stone, while the modern engineer works with steam hammers and drills; the stone-age engineer depended on manpower alne, while we have the frces of steam and electricity to do our work.

Appropriate Selection.

Kentucky paper—The organist rendered Mendelssohn's march very beautifully. As the bride and groom entered the church she sang, "O Lord, I Am Not Worthy" with much feeling.

—And Sometimes—

A Contemp. reasons that the difference in the shortness of skirts this year is the fact that conscience is the only guide.

Mrs. Morriarity of New York, passed through St. John yesterday, returning from Bridgetown, N. S. Mrs. Morriarity who was formerly MiMss Georgie Bath, of Bridgetown, accompanied the remains of her husband, Captain A. Morriarity, of New York, to Bridgetown where interment took place.

NEED WEATHER WISDOM WHEN CUTTING HAY

Harvesting the Hay Crop in Good Condition Essential to Successful Farming.

There is no operation on the farm so dependent upon weather conditions as that of hay making, and the farmer who can always gather in a crop of juicy fodder, neither too young nor too ripe which will come out of the mow fragrant and palatable, needs to exercise his best weather wisdom with good judgment, and lots of snap when the work is rushing.

All grasses and clovers make the best fodder if cut while the stalks, having obtained their largest growth, are yet full of sap. If a large area is to be cut, it will be necessary to cut some part before it is ready, to avoid having a large quantity grow too old and woody before it can be reached.

Need Weather Wisdom.

In the maritime provinces, where many mornings are apt to be overcast and there may be some doubt up till eleven o'clock what the afternoon will bring forth, weather wisdom is especially required and frequently use can be made of the meteorological service to advantage. It must be borne in mind, however, that even the official forecasts on the sea coast cannot be as accurate as at inland points because no reports are available as to weather prevailing far out from shore; therefore the meteorological Bureau only knows what is happening on one side of the district instead of all around it.

In the early part of haying and especially during the first part of a week it is generally good policy to cut down well in advance of the housing strength of the hay crew so that the largest possible quantity of hay may be housed before Saturday night.

Time To Cut.

The preferable time to cut grass are after the de wis off until, say, 11 en o'clock and again after 4 p. m. When cut late in the evening the grass will be green and the night's dew will not blacken it. The best fodder cannot be made without coiling the haw for one night before it is housed. Very many men are content to leave their hay in windrow, or even lying flat, over night and save all the labour of coiling up and opening out the coils next morning, but such methods may blacken 50 per cent. more of the hay and damage both its palatability and nutritive qualities as well as lower its sale value.

Machinery To Use

In heavy grass with a smooth bottom the side delivery rake and the tedder are two worth while implements. The binder is not likely to be found of use except when the crop is to be cut into the silo, for sheaves of grass cut as young as it should be, will never in our Maritime climate dry through without molding badly. Cotton caps for coils can be used in bad seasons with great advantage, but it is doubtful if they will ever come into general use on account of the expense involved. A hay loader in a small crew may be of great advantage, in a large operation its use is problematical, but unloading in the barn by horse power greatly increases the man power of crew. The wise hay maker will put his hay in the mow (green, sappy, but well cured after a night's standing in the coil, and he will make every effort to prevent its becoming wet with rain.) In bad seasons it will often pay to spread salt in the mow while the hay is unloading at from 25 to 50 lbs. per ton.

Salvation Army Workers Farewell

Words of Praise for Accomplishments of Adj. and Mrs. Moore Who Leave Here.

In the Salvation Army Citadel last evening a farewell meeting was held for Brigadier and Mrs. Moore who have been in charge of the St. John and Prince Edward Island Division of the Army for two and one half years. Mr. and Mrs. Moors who have been engaged in this work for 36 years, and have been instrumental in securing many workers for the Army, are leaving on Wednesday night to take charge of the East Toronto Division of the work. The meeting was very largely attended, and from the manner in which the many Salvationists spoke of the Brigadier and his wife, it was very easy to see the warm places that they occupied in the hearts of their co-workers. Many glowing tributes were paid to them, and in a very hearty manner these popular Army people assured their friends that although they were moving to far off fields they would always have happy memories of their stay in this city. Adjutant Owen, Chancellor of the St. John Division, was in charge of the meeting and led in the service.

BABY COVERED WITH ECZEMA

When 4 Days Old. Cross and Cried. Cuticura Heals.

"My baby brother had eczema which began when he was about four days old. It came in little pimples and then a rash, and he was covered. He was so cross that he could not sleep, and he cried.

"This lasted about two months before we used Cuticura. It helped him, so we bought more, and he was all healed after we had used two cakes of Soap and two boxes of Ointment." (Signed) Miss Almeda Williams, Youngs Cove, N. B., May 22, 1918.

Use Cuticura Soap, Ointment and Talcum for all toilet purposes.

Soap 25c. Ointment 25 and 50c. Sold throughout the Dominion. Canadian Depot: Lymans, Limited, St. Paul St., Montreal.

Cuticura Soap shaves without mug.

Died

LOCKHART—On Sunday, 3rd inst., Theodosia A., beloved wife of C. B. Lockhart.
Funeral from her late residence, 272 St. John street, Tuesday, 5th., at 3 p. m.

HANFORD—At the General Public Hospital Sunday, July 3, Frederick Stearns Hanford, in the 77th year of his age.
Funeral on Tuesday afternoon at 2.30 o'clock from St. John's (Stone) church to Fernhill.

"To The General Joy of the Whole Table"

One of Shakespeare's toasts, this, but one which can be honored and fulfilled today, if the banquet winds up with the serving of

COUNTRY CLUB Ice Cream

"The Natural Cream in the Natural Way."

PACIFIC DAIRIES LIMITED

Main 2624 Main 2625

ST. JOHN, N. B.

London, July 4—The tone of the stock market was quiet today. Bar silver 35 7-8d. Bar gold 110s 3d. Money 4 1-4 per cent. Discount rates, short bills, 1 1-4 per cent; 3 months' bill 5 3-8 per cent.

CASTORIA

For Infants and Children

In Use For Over 30 Years

Always bears the Signature of Chas. H. Fletcher

ANGLO-JAP PACT CASE MADE CLEAR

Authoritative Statement Issued Giving Exact Status of Discussions.

ADOPT ALLIANCE TO LEAGUE PLANS

Conditions Upon Which Premier Meighen Agreed to Consideration of Measure.

(Continued from Page 1.)

The strongest part of the transaction, and the one exciting most comment in conference circles, is that it now appears that the British foreign office, although holding that its note to the League of Nations constitued denunciation of the Alliance, does not appear to have communicated its understanding of the matter to Japan.

As for the resultant position, it is this: the old Alliance entered into in 1911, remains in force. It will remain in force until twelve months after such time as the British Government may serve notice that it desires to terminate it.

Will Notice Be Given?

Whether this notice will be given, and when, depends largely upon one development, namely, the possibility of a successful conference of the three powers — the British Empire, the United States and Japan—upon the Pacific and disarmament problems.

The conference of Prime Ministers is, beyond doubt, in favor of such a conference being held.

"TIZ" FOR TIRED OR ACHING FEET

Just put those weary, shoe-crinkled, aching, burning feet into a Tiz bath.

Tiz is grand, glorious for tortured feet. It draws the swelling and poisonous exudations right out. Stops the pain of corns. Ends torture and puts your feet into perfect condition.

Your shoes won't seem tight and your feet will never hurt or get sore and swollen. Think of it, no more foot misery—and you will wear smaller shoes. Get a box of Tiz at any drug store and get inside relief for a few cents.

The conference of Prime Ministers is, beyond doubt, in favor of such a conference being held.

ECZEMA

You are experimenting when you use Dr. Chase's Ointment for Eczema and Skin Irritations. It relieves at once and gradually heals the skin. Sample box Dr. Chase's Ointment free if you mention this paper and send 2c. stamp for postage. 60c. a box; all dealers or Edmanson, Bates & Co., Limited, Toronto.

Put the Whole Family in FLEET FOOT

ENJOY the greatest foot comfort you have ever known in summer—and enjoy the economy of having several pairs of attractive FLEET FOOT shoes for the price of a single pair of leather ones.

Put the whole family in these sensible, serviceable shoes. Wear them right through the summer; at home as well as on picnics and motor trips; in the office during the day as well as for porch parties in the evenings; on your vacation as well as for bowling, tennis and golf.

There are styles for men, women and children, for every-day wear, sport and recreation.

Genuine FLEET FOOT shoes have the name FLEET FOOT stamped on them. Look for it.

Ask your Shoe Dealer for Fleet Foot and make sure you get Fleet Foot.

DOMINION RUBBER SYSTEM

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Bicycles for Everyone

ANY BOY OR GIRL in the Maritime Provinces can secure a sixty-five dollar "Pathfinder" bicycle, complete with mud-guards, air pump, parcel carrier and stand, with coaster brake, reinforced frame, spring saddle, and in fact everything that goes to make a bicycle complete, and at the same time earn fifteen dollars pocket money, payable in cash.

If there is a boy or girl who does not want a bicycle, any of them may earn a watch or any other prize they desire by the most generous proposition that has ever been made to the young people of the Maritime Provinces.

Pictorial Review is desirous of securing one million additional readers and in order to do so offers the Pathfinder bicycle mentioned above to any boy or girl who will, before October 15th, sell three hundred copies of this popular woman's magazine. Pictorial Review retails at twenty-five cents per copy. Anyone who wishes to enter this competition pays only twenty cents per copy for the magazine and thus makes five cents on every copy sold. To win the bicycle it is necessary that you shall send your money and your order for whatever number of copies of the July issue you may require, to **H. V. Mackinnon & Son, P. O. Box 1109, St. John.** These magazines will be delivered to you free of charge by Dominion Express. Sell them as quickly as you can and order more. A strict account is kept of all you buy and as soon as you have sold three hundred copies the bicycle will be shipped to you; all charges prepaid. In case you do not desire a bicycle write for particulars about the number you have to sell to secure one or other of the various watches which will be given as prizes. Already boys and girls in different places have sold more than one hundred copies of the June issue of Pictorial Review, and at the rate they are going will have earned their bicycles by the middle of July. Any one can do it!

The generosity of this magnificent offer will be realized when it is remembered that three hundred copies of the magazine costs the competitor only sixty dollars and that the bicycle is worth more than the entire sum paid for these magazines. No such offer was ever made to the boys and girls of these provinces. Do not lose time. You can secure scores of customers this month who will take the magazine from you every month, and in a very short time you will have finished your three hundred sales and be in possession of an up to the minute bicycle. Let us hear from you at once.

Everybody Smokes OLD CHUM

There's a world of satisfaction in a pipeful of Old Chum Tobacco.

"The Tobacco of Quality"

SAW NO SIGN OF TROUBLES WITH PERRY

All Witnesses in Yarmo Murder Have Been Hea by the Court.

MANY SWEAR TO FRIENDLY RELATIO

One Claims He Saw Mys ious Stranger in Dis Night of Tragedy.

Continued from Page 1.

Clara Perry also offered testim as to the condition of the cellar in the Perry home during her dence there.

Nathaniel Adams, a crown wit had previously deposed that Perry had suggested that he range the steps for the purpos causing injury to Captain P Witness said she had never kn anything about them being disarr ed until she read about it in papers.

Miss Perry said that she had hit her father over the head wi coffee pot.

L. J. Roy, Jr., told the court at time of the separation of Mrs. P and her husband he had moved f ture up and down the cellar and had not been warned about condition.

Eleanor Perry," her father's said that she had never been wa about the cellar steps. She did know that her mother had gone to Perry home during her separ from the captain at any time.

Saw a Stranger.

Benjamin MacNutt, a neighbo the Perry's repeated testimony at a preliminary hearing as to seeing a man near the Perry h during the evening preceding murder. MacNutt said he usually at his window in the evening "c ing tobacco and spitting in the scu and that on the night of the tra there was a light in the window of northeast bedroom, but no light any other part of the house.

Captain G. C. Horner, superint ent of schools in Salem, a Yarm suburban district, testified that w he visited Captain Perry some before the murder, Mrs. Perry app ed to be on good terms with her band.

During the afternoon sitting the tle dog, that was discovered bar and jumping about the almost life body of Captain Perry on the n of February 26, found his way into court, and making his way to Perry's side snuggled up against black garbed prisoner.

The Morning Evidence.

The crown rested its case this m ing after the examination of four nesses, and R. W. E. Lan counsel for the prisoner, addr ed the jury preparatory to ing witnesses. The first witness ed by the crown today das M Adams, wife of Nathaniel Adams, had previously testified that years ago Mrs. Perry had given wax impressions with which to m keys that would accord him ac to the Perry home in order tha night disarrange the cellar steps so cause the Captain to injure self. She testified that her hus had never told her how or why impressions had come into his po sion and that she had asked no tions concerning them. She they had been kept in a trunk testified that this explained why had been maintained in such a state of preservation. She had herself made the wax impressions writing on the clothes in which were kept, "front door" and "c door" was not hers.

G. Shute, manager of the R Bank of Canada at Yarmouth, re ed as a handwriting expert, said in his opinion the two labels had written by different persons. He the writing might have been forg

ASPIRIN

Only "Bayer" is Genui

BAYER

Warning! Unless you see the "Bayer" on package or on tablets, are not getting Aspirin at all. Aspirin only as told in the Ba package for Colds, Headache, Ne gia, Rheumatism, Earache, Toothe Lumbago and for Pain. Then you be following the directions and age worked out by physicians du twenty-one years and proved safe millions. Handy tin boxes of tw Bayer Tablets of Aspirin cost cents. Druggists also sell la packages. Made in Canada. Asp is the trade mark (registered in C nada), of Bayer Manufacture of M noaceticacidester of Salicylicacid.