When the Coal Is Gone LAST RITES

WIND AND WAVE WILL TURN THE WHEELS OF THE WORLD MEN WILL HARNESS THE TIDES A LESSON FROM THE NILE.

While the prophets of disaster foresee shortage in power, coal, and iron,
perils of fire and water, within the

Wheels." The famous Mississippi,
Ohio, and Arkansas valleys are only
Some of many Next comes Africa.

Wany good results will accrue from this. There
will be larger crops and less variable,
a marked gain over the present where world and without, to destroy man's with the great valleys of the Nile, the place or cut short his career on terra Zambesi, the Congo and the Niger. be more than enough for the sons of in the way of speedy exhaustion. men, who are destined to evolve into

and wood is no menace to mankind. measure aid in diminishing the speed elsewhere, many sunken acres are These are trivial energies compared with which the soil passes to the sea, waiting to be reclaimed by man. Al- was 'Fruit-a-tives' alone that cured with those locked in wind, and sea, and river. The wind alone contains used to turn the wheels to a great for computation to be imperfect he disease for seven years, and I sufmany times the power now utilized extent may be made to serve the pur-reckons that in the debatable ground fered from severe constipation, great by man from all other sources com- poses of irrigation. bined. The winds propel the sailboats and grind much corn and pump source of energy probably will not 000 square miles that sometime will physicians without any benefit and much water, but after all their posthat because of the great variations tion. From that time on it will be the long periods in which the move- sources is allied to the arts. ment is so slight that they afford no MAN WILL HARNESS THE TIDES.

better advantage

INCALCULABLE POWER OF WATERFALLS.

Next to wind power is the energy years almost untouched because it had to be used at most but a few hundred feet from the water. Today the energy of falling water can be can be transmitted several hundred miles already, while in the future the distance of transmission will be un-

And as continents go at present, North America is the richest part of

Advertiser Patterns



A STYLISH BLOUSE.

No. 8251-Ladies' Shirtwaist. Cut in sizes 32 to 42 inches, bust measure. Size 36 will require 21/2 yards of 36inch material. A deep pleat over the shoulder, stitched to yoke depth in the front and extending to the waistline in the back, gives an air of style to this shirtwaist. The plain front affords a fine opportunity for hand embroidery or braiding The closing is in the back, and a high, standing collar completes the neck. Linen, batiste, | lawn and nainsook are all used in the

A pattern of this illustration will be mailed to any address on the receipt of 10 cents in silver or stamps.

PATTERN DEPARTMENT OF THE ADVERTISER.

Please send the above-mentioned pattern, as per directions given below,

Kame Street Address

Town

Measurement: Bust Waist

Age (if child's or misses' pattern)

CAUTION.-Be careful to inclose above illustration and send size of pattern wanted. When the pattern is it may be. If a skirt give waist and length measure. When misses' or child's pattern write only the figure representing the age. It is not necessary to write "inches" or "years." Patterns cannot reach you in less than one week from the date of order. The price of each pattern is 10 cents in cash or in postage stamps.

PATTERN DEPARTMENT,

LONDON ADVERTISER. When the world will be fully de

flow into the sea no longer, but will pass back to the air by evaporation

there is serious waste of effort due

to want of uniformity in return for a

given amount of work in tillage. This

variation is the "primal curse of agri-

culture," and when it is removed will

allow farming to enter a new realm

There also is land to be won from

the sea. Nearly all over Europe this

becoming a true art.

ordinary ground."

firma, Nathaniel Southgate Shaler, Considered as a whole, the rivers professor of geology at Harvard uni-versity, finds the sources of earth's energy as yet almost untouched and amic help to the arts than all that the resources of old Mother Earth now serves them. Moreover, this help RECLAIMING LAND FROM THE for her children hardly tapped. For will be from sources of continuous 100,000,000 years or more there will supply and not like that from coal

some of many. Next comes Africa,

Further the full utilization of the has been done over and over again men, who are destined to evolve into beings beside whom the present hubings beside whom the present hubings beside whom the present hubin beings beside whom the present hubin brutes. The failing treasure store of coal the flood waters, will in a considerable bays, along the Florida coast, and

The increase in the use of continue to be rapid until the supply be utilized and afford food for sev- took every medicine I heard of, but sibilities are fairly untapped. And of the fossil fuel approaches exhaus- eral hundred millions of people. in the speed of the air currents and speedy until all this group of re-

with other periods when the speed the moon's attraction, and swinging is so high as to be destructive to most from ten to twenty feet along thousands of miles of coast line. There is But Dr. Shaler expects the methods so much energy in the tides alone of the storage battery and its cheap- that if they only were harnessed and additional prizes for the future en- dreadful womb pains. I began to ened cost and greater efficiency to set to work no other power would be enable us to capture and utilize this required for the needs of all the hosts oldest servant of man to incalculably which the soil could sustain with the best husbanding.

A few centuries ago there was a tide mill in use. It had a maximum of several horsepower and was imof falling water, until the most recent was hard to manage because of the ported to America from England, but

tidal irregularities. With the development of the storage battery system, however, methods possibilities of tillage lands, comparify your dealer does not have them. will improve and enable the people able in area to that which may be turned into electricity and thence back of the twenty-third century to find a had from the deserts, the morasses valuable resource in the tide.

The sea waves in times of storm sea. have an energy of about 10,000 pounds SOLVING PROBLEM OF THE NILE. to the square foot, or about that in The Nile River long has been a RESOURCES OF GLOBE WASTED. an ordinary low pressure boiler, but problem, and when it has been solved, In the natural state of the wasting their action is so intermittent and as it now promises to be, the popula- processes are counterbalanced by itilized save as in extremity.

about one horse power.

for a million years to come. But at land, nor even to have fertile land. our range of action or increase the present this looks unreachable. The land, nor even to have fertile land. Our range of action or increase the comfort of life; this insures the peraverage increase in temperature is washes away to the sea, it becomes manence of civilization when else its only about 100 degrees Fahrenheit for sterile by perpetual cropping, and end was to be reckoned on in historithe mile, and at less than three miles then men become as the fabled icthyo- cally brief time. down the pressure would close any romising at the moment. Nevertheess, the energy is there, and superabundantly. And none can predict what science will do with it.

The coal, the rock, gas, and petroleum are not expected by Prof. Shaler the world and almost unsuspected. sor has computed that the oil will much exceed in volume the amount of water contained in Lake Superior. Not only is there much unused power awaiting application by mankind. the surface, as is the condition on the the celestial spaces. There is also much unwon land. The area where the bare rocks are exarid deserts the world over hitherto have been abandoned as profitless. But with the coming of irrigation these will prove not very fertile but naturally fertile lands.

posed.

from the bedrocks to the sea. Al-

"The whole process depends upon

the adjustment of the rate of rock de-

in the crust of the sphere, in time,

countries have been made to bear

their crops without the least refer-

ence to the interests of future gen-

Here and there in vineyards partic-

ularly some care is shown, not for

bettering the crops of the present.

erations.

boundless domains.

"Given the suitable temperature the crop giving value of a soil is in though the real coating is a mere CONDITIONS OF LIFE DO NOT proportion to the amount of sunshine film on the surface of the rock sphere, and the supply of water furnished at still it is the basis of all its higher the time required for the growth of life. The life of the lands depend plants. When the needed water comes upon it absolutely, and the sea life directly from the sky the sunshine is also in a large measure. Indeed, this roughly estimated that at the rate of growth in an irrigated desert, such to nourish plants in the state in which us to bleiv and tail in ban as they exist in the cocks are preacht acre, owing to these advantages, is to the soluble shape whence they may likely to be about twice as great in be lifted into life. a like area in a humid district such as Illinois. In the more fertile portions of the tropical and subtropical cay to that of the movement of the regions irrigation often makes it pos- renewing soil, from the point where sible to raise three crops in a year it formed to the ocean, where it enwhere but one could be assured by the ters once again as stratified deposits

direct rainfall. ARID LANDS PERMANENTLY perhaps, "to tread again the round FERTILE.

The irrigable soils also are more permanently fertile. The supply of soil, nearly all the fields of all the ing of the soils into the rivers can be entirely avoided. A large amount of soluble material lies in the subsoil. so that wastes can be restored read-

"As possessions of the race the redeemed deserts are of far more value than the richest naturally well watered fields. They are likely to afford sustenances to men long after the soils lying on steep slopes have gone away to the sea."

The largest and most numerous regard, the worst are the Americans fields for irrigation Dr. Shaler places who developed an almost incredible in the twin continents of America, particularly in North America. In the United States are four great valleys besides many smaller areas. These four are the valleys of the Rio Grande the Colorado, the Arkansas, and the

upper Mississippi rivers. By far the most important field is the upper Missouri and its numerous bust measure you need only mark 32, branches, from the Platte upward. 34, or whatever it may be. When in Even in the summer season there is waist measure, 22, 24, 26, or whatever water enough in this system of rivers for the crops on several million acres. When arid United States alone is reclaimed there will be a gain in the \$1 worth of MINARD'S LINIMENT, and

> fifty times the present number of Prof. Shaler expects the irrigation methods to extend to other lands now accounted fertile and thereby at least to double their yield, all over the continent.

food supply enough for something like

Hotelkeeper, St. Phillippe, Que.

I bought a horse with a supposedly in-

sold him for \$85. Profit on Liniment, \$54.

MOISE DEROSCE

OF THE CHURCH **ADMINISTERED**

from irrigated fields. Many good re- Miraculous Escape From Death Mme. Lirette, of Sorel, Que.



while the water, after it has been though Dr. Shaler declares his basis me. I suffered from severe womb of mud flats, marshes, and mangrove weakness and constant pain all the this swamps there are no less than 200. time. I was treated by six different nothing gave me any relief. My suf-"As this land is of rare fertility fering was so intense that for a year and enduring to the tax of cropping I was unable to get out of bed-and I beyond that of any upland fields, it became so ill that my friends did not has a perspective value as a human expect me to recover and the last rites effective power whatever, together Next the tides, produced mainly by asset far beyond an equal area of of the church were administered to me. At this time I was induced to Inland swamps and bog lands along try 'Fruit-a-tives' and at once I bethe larger streams of Africa, the gan to improve. These tablets cured Americas, and northern Asia, furnish the constipation and relieved the gineer, the largest part of the earth's improve and "Fruit-a-tives" entirely surface that can be won from the cov- cured me. Nothing did me any good ering of water being about 300,000 but "Fruit-a-tives." I took in all 18 square miles. "Should it prove pos- poxes and I am quite as well as ever sible to develop tillage in any con- I was, entirely due to the use of this

siderable part of the tundra of Siberia great medicine. the total may much exceed that amount; it may on those conditions 25 cent trial size, as well as the reguarise to near half a million square lar 50-cent boxes, in order to enable From the drainable lake beds come juice tablets. Sent on receipt of price Write Fruit-a-tives, Limited, Ottawa.

and the shallow shore zones of the state, and in that condition, through the ages slowly regather its mantle

invariable that they are unlikely to be tion of Egypt is likely to increase by natural processes of restoration. And one-half. Although there is lack of this average of waste and repair must In ancient story Archimedes set data for anything like an accurate be maintained by man if he is to infire to ships in the siege of Syracuse reckoning in this matter, it appears herit the earth. A few centuries ago by reflecting sun rays on a mirror and evident that, with an adequate and in England they began to cover imthus concentrating their heat. In low possible storage of the flood waters poverished soils with burnt limestone latitudes, where the sky is scarcely of the Nile, desert lands in Nubia and This was the beginning of the mineral clouded, about a hundred square feet along the lower reaches of the river fertilizers of ammonia, nitrogen, potof mirrors some hours each day yield can be won to cultivation, which will ash, lime phosphate which Dr. Shaler afford food for a population of at least regards as the "most significant and The central heat of the earth is five times as numerous as that dwell- important of the great winnings of so abundant that if it could be util- ing between Khartoum and the sea. the last half century." All the other a trifle, shoes, too, that can be fitted ized no other energy would be needed It is not enough, however, to have improvements in the arts but add to without trouble, it is practicable to travel average increase in temperature is washes away to the sea, it becomes manence of civilization when else its

pophagi, a rare and scantily fed an-With energy, soil and food osed. So that this does not seem feeding on the fruits of the ocean. the race are still not all abolished. Although it may seem preposterous Among the prophets of disaster are to imagine that the soil is constantly those who suggest that the earth's slipping away beneath our feet into atmosphere is in process of being dethe sea, yet it is true, in tilled and prived of the most important of its untilled fields alike, but particularly constituents, oxygen and carbon diin the plowed lands, which lost their oxide, by the daily routine of its orto last through the next 300 years, but there are oils plentiful in certain cartion.

In the power lands, which lost their ganic life. It is undeniable that both these substances are rapidly passing by MILLIONS OF MOTHERS for their lands, which lost the seaward into the solid crust each thousand lands, which lost their lands, which lands, which lost their lands, which lost their lands, which lost their lands, which lands In the natural state "the seaward into the solid crust, each thousand movement of the particles composing years takes of them a notable amount In the Ohio valley alone the profes- a large area of soil possible may be from the air. In the case of carbon, as small as a foot in a century. From however, the withdrawal is compensomething like that minimum it in- sated by the emanations of the gas creases until it becomes so rapid that from volcanoes and by carbon meteorthere is no soil coating retained on ites issuing into the atmosphere from

In the case of oxygen it seems in some way to be fed into the air per-THIN FILM COATS THE EARTH. haps in the atomic state from the The critical point in man's rela- strated by geology to be about the twice and thrice as productive as the tionss to the earth is to be found in same now as it has been in the past that coating of "detritus" on its way during a hundred million years or

CHANGE.

Organic life seems to have begun with the atmosphere substantially as it now exists; and throughout its interrupted, and if the rainfall is ever layer of water which is forever slip-unchanged. Prof. Shaler thinks we tract of Wild Strawberry," "Wild Strawtimes when the plants need it, their enables living beings to feed upon likely to be disturbed for an indefinite may reasonably assume that it is not berry Compound," etc., in the hope that "In it the substances utterly unfit

time in the future. "We may assume that for a future probably as long as the geologically getting the genuine Dr. Fowler's. recorded past the sphere will go onward through time and space, free to work out its problems of life, with no break in the succession due to accidents coming from within or with

"The most important elements the future of man is the extent to which he may be able to obtain control of the forces of his own body, those which determine health, longevfrom rock to soil, and thence back to ity, and above all, his inheritances. Prof. Shaler looks forward confi-Despite man's evident duty by the dently to a race of men who are to look back upon ourselves as we to our ancestors of the bone and cave age-"not despisingly, as we look upon those troglodytes, for the man to come will have too large a sense of relations for that, yet with a judgment that we were far back in the the coming races, however, but for night when we thought we dwelt in We may search the world over, says the day. We may be sure that they Dr. Shaler, and not find a field which will take us largely and tenderly, these has been tended for the sake of the folk of mayhap a million years hence men to be. Of all the sinners in this for they will feel the unity of life while we merely discern it, and that only in part.

"It is this sense of the human bond carelessness in their tillage of their of all life that those who are to look About one-thirteenth of the state of upon us from afar will have their Kentucky cannot be restored to its greatest enlargement. In that field the gain may well be such as to make original fertility in any forseeable time. It must revert to the forested a new order of man parted from us as we from the lower brutes, yet including our little lives in its great

LEATHER SHOES FOR HORSES.

A new market for leather is to be found

Australia, concerning which curable ringbone for \$30. Cured him with "In districts of Australia the horse shod with leather instead of iron. The feet receive better support. This novelty is employed only in regions where the nd is permanently covered with grass or fine sand. In a country like Australia, SISTER-IN-CHARGE or to THE where stocks are sometimes scarce and a SISTERS of ST. JOHN THE DIVINE horseman may experience great difficulty at a critical moment in finding a horse-shoe, such an innovation is a useful novelty. With extra shoes whose weight is

Everyone Who Enters Your Store Must Do One of These Five Things

1—Purchase Something for Cash

2-Purchase Something on Credit

3—Pay Money on Account

4-Collect Money

5-Have a Bill or Coin Changed Does Your Present Method Take

Proper Care of These Things?

Success or failure depends on how accurately you look after these, the five most important things that happen in your store.

THE NATIONAL CASH REGISTER

will give you an absolutely accurate and positive record of all the details of these five transactions.

The National Cash Register will make it a positive certainty that no goods go out of your store unless you get the cash for them, or a perfect record of the charge is made.

It will insure you getting every cent that is paid you on account and a perfect record made of it so all disputes with customers are prevented. It will prevent all mistakes in change and keep a record of all money you pay out.

The National Cash Register will give you the absolutely accurate and full particulars of every transaction that takes place in your store. It will tell you in a moment just

how your business stands and balance your cash to a cent in five minutes. National Cash Registers sell as low as \$15. It will

pay for itself in what it saves you. Write today for our booklet that gives full particulars why you should have a National Cash Register in Don't fail to hear our great Factory Lecture in our special Lecture Hall in the Woman's Building at the Exhibition-it's free.

The National Cash Register Co. F. E. MUTTON Canadian Manager

E. D. WHYTE, Sales Agent, TECUMSEH HOUSE, LONDON, ONT.

Corner Yonge St. and Wilton Ave. Dept. 118

Toronto, Ont.

the higher price is repaid by the super

your store

advantages. "In some quarters the horses were pipe bored down, as has been pro- imal dwelling on the seashore and cerned the possible perils besetting like drivers, will be supplied before long, never shod with iron. Probably thus avoiding the disagreeable experience It is not impossible the innovation will soon extend to every country where the nature of the soil permits it to be used."-Le Franc Parleur.

> ALL PAIN, CURES druggists in every part of the world. Be sure and ask for "Mrs. Winslow's." s the best remedy for diarrhoea. Sole

DO NOT BE HUMBUGGED.

More than ever, 'dishonorable and disreputable pharmaceutical concerns are flooding the market with cheap and worthless preparations designed to be imitations of Dr. FOWLER'S EXTRACT OF

WILD STRAWBERRY. the public may be deceived and led to purchase them, thinking they are

Are you willing to risk your healthperhaps your life, to these no name, no reputation, likely dangerous, so called

Strawberry Extracts. For sixty-three years Dr. Fowler's EXTRACT OF WILD STRAWBERRY has been used in thousands of families for Diarrhoea, Dysentery, Colic, Cramps, Summer Complaint, Cholera Morbus, Cholera Infantum and all Bowel Complaints.

Do not let the dishonest or unscrupulous dealer humbug you into accepting one of these cheap substitutes, to the detriment of your health and gain to his pocket. Ask for Dr. Fowler's and insist on

being supplied with it. See that the name The T. Milburn Co., Limited, Toronto, Ont., is on the wrapper. Price 35 cents

EDUCATIONAL.

London Conservatory of Music and School of Elecution Reopens Sept.

W. Caven Barron. 874 DUNDAS ST., OR PHONE 1101.

Bethune College

OSHAWA, ONTARIO Visitor, the Lord Archbishop of Toronto A Residential School for Girls paration for the University. Toung chile also received. For terms and particus apply to the

SISTER-IN-CHARGE or to THE Major Street, Toronto COLLEGE RE-OPENS SEPT. 166

TELEGRAPHY

AND RAILWAY INSTRUCTION

Six Months, Days, \$50 Six Months, Evenings, \$30 Including Telegraphy, Standard Train Rules, Typewriting and Passenger and Freight Accounting.

No one of the last three mentioned subjects is of any value to you without The Most Complete Course Ever Offered for the Money

WARNING. We have been in the Telegraph School business for three years, and have up-to-date schools in both London and St. Thomas, and we found that during the first year of our experience it was impossible to thoroughly qualify any person for a competent operator without actual practice on the main line wires. Realizing this difficulty, the G. T. R. came to our assistance and extended their

MAIN LINE DISPATCHER'S WIRES into our class rooms in bath London and St. Thomas schools, as well as supplying us with the necessary blanks and forms required for the thorough and practical education of our students—

AN ADVANTAGE WHICH NO OTHER SCHOOL CAN BOAST OF. We also use

THE STANDARD TWENTIETH CENTURY TEXT BOOKS. compiled by a thorough, practical and competent author-the only text book used by the large railroad colleges of America. This Great Advantage is the Most Vital Point

in the Choice of a School. It requires a school with the above-mentioned equipment, as well as teachers of ability and experience, to qualify students for positions such as the graduates It will pay you to call and see us before making a choice. If unable to call, drop a card or phone We are always pleased to explain our methods, and may save you considerable money and loss of time.

LONDON COLLEGE OF TELEGRAPHY, LONDON, ONT. Candian Telegraph and Business College, St. Thomas,

Aluminum, All Grades, Lowest Prices

THE CANADA METAL CO., LIMITED, WILLIAM ST., TORONTO

Alma

Ladies

BRANKSOME HALL 102 Bloor Street East, Toronto,

RESIDENTIAL AND DAY SCHOOL FOR GIRLS.

Under the joint management MISS SCOTT, formerly Principal of the Girls' Department of the Provincial Model School, Toronto, and MISS MERRICE.

WOODSTOCK, ONT.

A residential school for boys and young men. Offers educational facilities not excelled anywhere.

Four courses: Matriculation, Teachers', English, Scientific, Commercial.

A thorough scholastic training—teaches the boy "to do" by "knowing."

A fully-equipped manual training—teaches the young man "to know" by "doing."

"doing."

A new gymnasium under medical supervision ensures healthy physical conditions.

The distinctly Christian and moral life of the school safeguards from immoral and hurtful influences.

College reopens Wednesday, Sept. 2.

Write for calendar.

Fees for year: Residents, \$230. Day, \$40. No extras.

A. T. Machelli, B. A., Prinipal

Standard remedy for Gleet, Gonorrhæa and Runnings IN 48 HOURS. Cures Kid-ney and Bladder Troubles.

College ture, Domestic

Science, Business College Courses,

Literary and Scientific Courses, al-

so Public School Classes for young

girls. Cheerful, wholesome, home-

"The Registrar," ALMA COLLEGE,

St. Thomas, Ont.

like. For Catalogue, address : •

Has superior

advantages in

Music, Fine

Art, Elocution

