VES WERE SACRIFIC ARTYRS TO THE CAUSE

CIVILISATION. veral Instances of Science Have Not Died Vain.

rior to 1851 absolutely no as te was known for morphia rson taking an overdose of g had to die. But in October year a certain Dr. Ellenber hed to have discovered ap fible remedy, and offered to enstrate its efficacy on his son in the presence of Orfila, inent chemist and toxicologist. rila consented, though somewh twenty-three grains phate of morphia; and immedi afterwards his antidote. He di suffer from any symptoms soning, although the quantity Laken was sufficient, in the

of events to have dozen men. Orfi keen eye to t ctical use of antidotes, ask would be the result if an i of say, thirty or forty mi allowed to elapse befor safety preparation Ellenberger said the result would Nevertheless, died from a dose ten grains of the poison, har allowed barely fifteen minutes !

taking his antido latter was analysed after h, and found to consist of ture of magnesia and carbona naguesia. And this has bee sed ever since as an almost ce cure for morphia poisoning vided only it be TAKEN IN TIME.

Dr. Ellenbergeis died, so Dr. Male, of Birmingham. Eng the poison with which he was rimenting, however, being not hia, but acquite. He desired to diect of continued the drug, administer regular intervals, and took al rops, in ten doses a period of our days, At th that time he died very sud result was to prove up till then toxicologists had half suspected-viz., that aconwas what is known as a "cul tive poison-that is to say

malignant energy the system, so ki until a fatal quantity ha alsorbed. when death. acid, the basis of English

and of the French melinit to for years as a yellow dy re the experiments under orger to, if possible, in When, however experimenters discovered that stuff could with perfect safety firred up with a red hot poker. that molten ironopoured from a ht upon it only caused it to a sort of expostulatory sizzle,

concluded that they were mis w among them all-a German ed appropriately Dietz-persistone day detonated a small of mercury fulminate in close imity to a quantity of the acid. resultant explosion was so terri hat not only was the unhappy

INSTANTLY KILLED,

rimenter.

the solicly-built laboratory he was working was demol not one stone being left upon er But he did not die in He had revolutionised the sciof War.

millier, the French bacteriolo in order to study the precise cholera gern of, the the human system, inoculated elf, with the Asease only to ssfully. Before his death, how he superintended a series o iments with his own infected which gave us the first relidata concerning the organish h came afterwards to be known he coma bacillus of cholera. ong other things, it was calcu t, that the weight of a single gra bacterium was one top-thou themillipath of a milligram the life of a generation was fifteen to forty minutes. and a single gerni can produce two kind in an hour, which might iply to four in two hours, and

aree days to 4,752 billions, hing 7:500 tons. the present time there are set well-known scientists facing in West Africa endeavoring t

o the bites of mosquitoes.

FISH THAT EXPLODE.

that malarial fever is entirely

turalists have been much inter recently in the appearance of nge fish off various parts of the hish coast, and which is know lly as the sea-cucumber. It re oles an oblong, transparent rub bag filled with water, and varie three to five inches in length

about as thick, generally, as & s thumb. At each end are so circles of sharp bristles, color ike brass, and seemingly hard se are believed to be its defen weapons. The bristles at on are stronger and more numerous wat the other. It's most won il peculiarity, however, is that kept out of the water for time the fish explodes, and vels up into a small piece o l skin. Scientists are at presen ecided whether it is an echium sipuncloldea.

A SPECIAL OCCASION. st Tramp—You orter see Bill ofter over de fence wit' de bull after

cond Tramp-Must have les lookin' at. rst Tramp-Say! It wuz de o time I ever seen him whe

't look tired.

## 266666666666

GOOD WATER.

"An absolute necessity on the farm. whether in summer or winter, is an abundant source of pure cool water During these excessively hot days, and still more to come, both man and beast will drink lavishly of naure's wholesome beverage, and their physical welfare will depend largel

upon its quality. There are perhaps as many kind of water as there are people who drink it., Ask nearly any farmer if his drinking water is good and he His neighbor is equally hundreds of cases, "the best water article, but it has been used until the users lourn to like it, or. in agdinst impurities.

agdinst impurities. springs issue water unpleasant to the taste it generally is true that this water is chemically purer than ors in water cannot be compared in harmfulness with the mild slickness given well and eistern water by decomposed animal and vegetable matter. This latter is veritable slop and is productive of numerous disorders of those organs in the human machine which have to do with the water drank.

The farmer who regards as import ant the health of his family and himself should know that the water used is pure and wholesome. To know that it possesses these qualities is to know that the source from which it is drawn is clean and free from those ghastly things one sometimes sees taken from wells and cisternsdead rats. rabbits, mice, chickens, young gostings, ducks, turkeys, pigs rats pumpkins, etc. We have seen such things fished out of wells from which the water was used by the dntire village.

to examine his water, stores and convince himself of their cleanliness. In the rolling and wooded lands, with their hills and valleys numerous. living streams of pure water already exist or may be found if diligently

And we should not forget the farm live stock as large users of water. We believe farm animals are entitled to, and at the hands of the good farmer will receive, water that is good chough for human use. us so perfect this important matter

springs. Protect them against con-

WASTES ON THE FARM. . It would be, interesting, although ince during a single year. It is safe book-keeping, tonsiderable part of dur, revenue. To stop these is one of the problems. While the careful, intelligent farmer that every successful farmer must who has his business in hand and solve for himself. under as strict a supervision as the therehant has his. allows but, little to go used ounted for, there are those through whose hands the result CHESLEY CASE of their Thors are constantly leaking and whose losses are such that Progress is impossible Everything a wante that is not put to its hest and alghest use. It is, sometimes a weste to devote too much when the micertainties, of the market are sich as to lente room for One of the greatest wastes tomes from failure to spend money on needed improvements. It is a decided w to to spend time in working with machinery that is constantly getting out of repair, when a new side itate could be purchased with the proceeds of the time lost in and knowing this he will be in a po- as a man can stand. the amount used to good advantage. The tendency to spread his operation over too wide an expectation of the expectation over too wide an expectation over too wide an expectation over too wid

resting intervals of course to yield

## CEYLON AND INDIA NATURAL LEAF GRENTEA

Is Free from Any Particle of Coloring Matte ; is Dainty and Invigor- tribes living along the route. Sir ating; is the only tea that suits fastidious pand is wholesome for Henry Johnstone, His Majesty's spe-

the most delicate digestions. IT IS ALSO A BRITISH PRODUCT

Ceylon Teas are sold in Sealed Lead Packets only. Black, Mixed, Uncolored Ceylon Green. Free samples sent. Address "SALADA," Toronto. LITTLE BURDENED HEARTS.

and if there is any part of it that is will tell you. "It's the best in the not working, it is so much capital lying idle, so much wasted. Keep-Sad Story of the Lives of complimentary in speaking of his ing unprofitable cattle is another own supply. The fact is that in fruitful source of loss. A herd of say, ten dairy cows, may yield a in the county" is a very inferior fair average profit yearly, but the farmer who does not keep an individual record of his herd is not in a the users fourn to like it, or any of the cowe are furnishing by tive life with a weight and terror so perverted that it fails to protest some of the cows are furnishing him with a profit. The individual record has, in many cases, resulted in bosam of the earth, and while some furnishing proof that while part of the herd is yielding a paying quantity of milk the others do not pay for their keep, and that it would! this water is definitely party than be much more profitable to kill them ty. Sitting apart by cisters. Unpleasant mineral flavcattle. The profit on one cow is little solemn faces and wide-open often needed to counterbalance the cycs seemingly haunted with some loss on another. In that case the unknown terror. Every day they other should be sent to the slaught- would inquire timidly if there was er house It is waste unnecessary waste, to keep unprofitable cows. A the exigencies of a two-weeks' outpoor milker is just as expensive to ing did not seem to demand much keep as a good milker, and when the in the way of correspondence, nothindividual record is kept it shows a

large balance against her. There are wastes innumerable on asleep, these two were found softly almost every farm, and there is only crying with their arms about each is by a proper system of book-keeping. It is not necessary that the book-keeping be elaborate. A simple debit and credit account showing the urged them to make up their minds cost and revenue is all that is to stay and enjoy themselves as the required. There can be a record of others did. But each succeeding day the milk yield of each cow, and at found them more anxious and disthe end of the season each individual tressed. At last the younger sister in the herd can be credited, with her milk product, and charged with her board. The results determine whether t will be best to continue her in the that it was a 'family matter," and it behooves the farmer frequently dairy herd or fatten her for the butcher. Certain fields, particularly those in which experiments are being tried can be treated in the same way, and so the profit or loss on certain crops will be ascertained. There is scarcely a farmer in the province whose working capital is most unreasonable to expect that should be known, but had not done which business could be economically so, and the little ones were sure run at hap-hazard without books or accounts. The merchant who, with half the capital, would undertake to to be at home they could not say,

them out your cisterns, wells, more necessity for a minute system there. This idea was so deep-seat-prings. Protect them against con- of account keeping in the secrebant's able and it was decided to take business, but the farmer who would able, and it was decided to take make the most of his farm, his them home the next day. It was make the most of his farm, his only when the hour came for leavdiscard the unprofitable lines, add to in spike of their unhappiness, for perhaps not very pleasant to make the paying ones and so increase his as estimate of the amount of money business. This knowledge can be wasted on the farms in our prov- obtained only by using a system of ince during a single year. It is safe book-keeping. There are numberto say-without the estimate—that less leaks through which the profits the amount would represent a very of the farm, may easily be wasted.

## COMES UP AGAIN

to some one particular crop JOHN FLETCHER, A FARMER, the succeptainties of the mark DODD'S KIDNEY PILLS.

> One of the Thousand Similar Cases in Ontario—A Common Trouble Among Farmers-Dodd's Kidney Pills Invariably Cure It

or William. Following are some of Chesley, Ont., Aug. 5.-Harvesting the restrictions in Berlin enumeratis in full swing and the farmers of ed in the late G. W. Steeven's book looking up repairs and having the section are hard at it early and just published entitled 'Glimpses of pieces to reflace broken ones. When late. For two steady months they Three Nations": the soil in a certain field is not in will be working harder than any condition to produce a certain crop other class of men in the country is clothes out of windows so that they to the highest perfection, it is time, Probably no period of the year is can be seen from the street. You labor and land wasted if sown with so trying on the farmer as the har-must hot feed horses in streets that particular seed. It is here that vest season. The management of a where there is not room for two yethe farmer needs his foresight and farm, never a light task, becomes hicles to pass, and in others only his acquaintance with the conditions trebly heavy. Worries increase. The with the consent of the occupier opof the soil. He should know what actual manual labor from dawn to each of his fields is best adapted for, dark and sometimes after, is as hard large you must watch the borse fundo the traces while he is enting.

stion to make the best use of each. It is not surprising that farmers and when he is done the occupier There are numerous ways in which often break down after the threshing must clear up toe spilt chaff. If the farmer's money may be wasted, is over. "Plum tuckered out." the To avoid the wastes is one of the system is apt to be in a low: weakhighest attainments of agricultural ened condition which is easily thrown gather up the pieces and take them science. Wealth is not so much the out of order. The kidneys will show may. If you stant on the paveresult of accumulation as of econthe sign of it first. Backache will ment you must leave room for other It is not the man who, earns probably be the first sign of the kidmost that becomes wealthiest; propably be the first sign of the kid-people to pass. After this it is rait is he who saves what he makes dust sediment in the urine. From The who saves what he makes, dust sediment in the urine. From you must not discharge firearms in the does not waste his substance; this stage it is but a short step to the street, nor shoot with crossbows who watches the little income and uses it to the best advantage. Big crops are useless if the percentage wasted, or not utilized which is the same thing is out to the best advantage. The percentage wasted or not utilized which is the same thing is out to the best advantage. The percentage wasted or not utilized which is the same thing is out to the best advantage. The street is the percentage wasted or not utilized which is the same thing is out to the best advantage. The street is but a same thing is out to the best advantage. The street is but as a subject to the street, nor and blowpipes. If this street is but a subject to the street, nor and blowpipes. same thing is, out of proportion to it does, that Dodd's Kidney Pills and 'rambling about in droves' is the amount work of proportion to it does, that Dodd's Kidney Pills forbidden after dark. Does that an

"I have been troubled all harvest," over too wide an area is one of the evils against which the successful new trouble. My urine was of a very farmer has to guard. It is better ney trouble. My urine was of a very to cultivate one acre properly and get all that is possible out of it, than to work ten acres for what should be got out of it. should be got out of one. Scientific farming means intensive farming, utilizing every inch of ground, keeping the soil at a maximum state of fertility and forcing it—with necessary

lertility and forcing it-with necessary can't help wondering how she got to its utmost limit. There should NOW DON'T ASK US THAT AGAIN back from Europe without having not be any waste places on the farm Miss Wunder Why do they have duty collected on her as a work of any more than there should be waste that deep crease in the new Panama art. goods on the merchant's shelves, hats you men are wearing?

All land, good and bad alike, constitute the farmer's invested capital the Panama canal.

Teaches Natives in Africa to Work

and Wear Clothes. It is scarcely necessary to point out how the Uganda railway will

completely revolutionize the western

part of Africa, and the effect the

RAILWAY A CIVILIZER

cial commissioner, graphically refers to this when he says :- "The railway has taught the negro the value of honest work ! it has saved thousands from death by famine. To the hungry people of East Africa, dying from the result of three years' drought the railway has brought food and shelter; and no sign of the times, was to me more encouraging than to see Masai-actual Masaiwho a year ago would have scorned any, other avocation than cattle tending, cattle raising and the slaughter of other negro tribes, work navvies on the railway line, decently clad for the first time in

Some

their lives."

City Children.

poverty is the burden it lays upon

the heart of childhood, pressing

hearts grown hard and callous with

In one of the parties of children

taken to the Fresh Air Cottage last

summer were two sisters, who sel-

dom joined the others in their jolli-

they would look on wistfully, their

ing was thought of it. One, night

Supposing it was a case of simple

homesickness, the deaconness kindly

NOT TO BE REPEATED.

they must do so.

onsoled them.

taken the opportunity afforded by

the children's absence to go away

on some expedition of her own, ig-

sorrow and anxiety she had inflicted

IN THE KAISER'S COUNTRY.

Things You Musn't Do if You are

There are many things you must

"You must not hang beds or

you accidentally break a bottle or

ment you must leave room for other

ther an anti-climax to learn that

"If children make a noise in the

street their parents can be punished,

AN UNSISTERLY FLING.

She is pretty, said the young wo-

man, but she is so obviously made

not do if you live under the Emper-

a Resident.

the sensitive hearts of her

When asked the cause, they

wanted to go home.'

after the other children w

other.

ought

said

saddest things about

undreamed of by

None came, but as

themselves.

One of the

unknown and

burden-bearing.

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FROM THE TRAINS.

Passengers Get Glimpses of the Pan-American Exposition. People travelling from the east and

west will come within the zone of the direct influence and spirit of the Pan-American Exposition miles away from the great and glorious spectacle itself. Surrounding the setting of confided the trouble to one of the the exposition there are numerous deacondsses, though against the profeatures that will rival the attractestations of the older, who insisted tions of the great show for public attention, and especially is this true of Niagara Falls. There is no greater or more wonderful eye-feast in the It appeared that the day before" world than the Falls of Niagara, the they left home their father had been beautiful gorge, and the dashing tu arrested for some supposed compli- multuous waters of the Whirlpool city in a labor trouble, and at the Rapids. If they are alert, long before their train stops at Niaghra time they left home the examination less than a thousand dollars, while had not been held, and they did not Falls, passengers over the Grand the average farmer's capital far ex-know the result. Their mother had Trunk Railway will come in sight of ceeds that amount, and it would be promised to write as soon as it the mighty observation tower from flashed to the Electric Tower of the Exposition. In fancy one can pic-1 ture the beam of the powerful prohow it would help matters for them and beast that each may get all he conduct his business in the slip-shod wants of that indispensable product manner in which nine-tenths of our the thought of their father's distrains lader with humanity assigns which interested that fall farms are conducted would have his shorter on inside of a year. It is feeling that they 'ought to be the falls and the exposition. This that they 'ought to be the train will carry its passengers in with two shoking rooms. buffet, burst of the train will carry its passengers in with two shoking rooms. buffet, burst of the train will carry its passengers in with two shoking rooms. This idea was so deep-seatfull view of the Falls of Niagara and the Whirlpool Rapids, while the reflocks and his herds must be in a only when the hour came for leav-position from actual knowledge to ing the cottage that the deaconesses bridge of the Grand Trunk Railway ness even in this day of luxuries. at Niagara Falls is one of the wonnow the tears flowed down their at the thought of going King Edward, the other in the lights on the train, the baggage that away, though they still insisted that United States; it forms a portion of and day coaches being thus lighted the industrial bond in the Anglo- also Reaching home they found their Saxon union that forces a realiza-| The train runs from St. Paul father had been acquitted, and was tion that no matter on which side of Portland, Oregon, passing through forgetting her promise to write, had Americans-Pan-Americans.

A floating bottle dropped in the Connections from Duluth and Gulf Stream will cross the Atlantic Superior and for Helena are made porant or licedless of the burden of in about 180 days.

children. They had lost the last five days of their outing, but their I was cured of painful Goitre by father was not in prison, and that MINARD'S LINIMENT BYARD McMULLIN. Chatham: Ont.

I was cured of Inflammation by MINARD'S LINIMENT JOHNSON: MRS. W. Walsh, Ont: I was cured of Facial Neuralgia by

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at work as usual, and the mother, the Wingara we reside, we are all Minneapolis, Fargo, Bozeman, Butte Missoula, Spokane, Scattle Connections from Duluth

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