into which the engine pours the power

generated with each stroke of the

piston, while the machinery in the

mill draws on this accumulated store

of power in the flywheel. If the en-

gine is stopped, the flywheel may yet

give a turn or two, for the energy

which it contains may be still suffici-

THE MOON'S STORY.

BY SIR ROBERT BALL, ASTRONOMER,

From the Scientific American.

I do not think there is any chapter

n modern science more remarkable

than that which I here propose to describe. It has, indeed, all the ele-

ments of a romance. I am to sketch

an event of the very greatest moment

The period of which I write is far

more ancient than that of the Pyra-

mids of Egypt, or of any other monu-

ments erected by human effort. It is

even more early than that very remote

time, hundreds of thousands of years

ago, when man himself first came upon

this globe. Our retrospect has to

pierce right through those vastly pro-tracted cycles which the geologists

have opened up to us. We speak of a

period long anterior to the ages dur-

ing which our continents were being

sculptured into their present moun-

tain chains and river courses. We

have to look through those periods

still earlier, when great animals, long extinct, flourished on this earth. The

time of which I write is more remote

than that very remarkable epoch in

earth history during which the great

dawn of things terrestrial.



KSCALES & LANGSTON.

time, we see the moon ever drawing Writes of His Recent Trip Among Moun-

VOLUME XXIX.---NO. 50

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in the history of this universe, which We also dote on these Suits, as we have the best-fitting occurred at a period of the most ex-Stout Suits made. All we want is to once try one of them treme antiquity, and has been discovered in the most remarkable manner. > on you.

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G. F. BIGBY.

- WHY ORDER -



ANDERSON, S. C., WEDNESDAY MORNING, JUNE 12, 1895.

nearer to the earth. Our satellite

now revolves at a distance of 240,000

miles, but there was a time when that

distance was no more than 200,000

miles. There was a time, millions of

years ago, no doubt, when the moon

was but 100,000 miles away, and as we

Strong Plea for Sheep-Raising. Keep Your Temper. An exchange give the following very

regard almost as much their legitimate

All Sorts of Paragraphs. - What is done cannot be undone. To the Editor of the News and Courier. especially if it is a hard-boiled egg. As this is the season for the sheep - The chance of two finger-prints

good advice to people about keeping a to yield his rich fleece to pay for the cool temper at all times: "The cool man is the strong man, care and keep of the owner for the the popular man and the great man. last year it is natural that we should We always associate coolness with feel more than usual interest in his bravery, and we cannot imagine a truly life and health, and then it is the courageous man in a high state of extime that he is most exposed to attacks of roving dogs, when they hunt the rabit and find the sheep, which they

citement, roaring out what he is going lated to make any one feel good, and to do. There may be persons who are to see things entirely on the bright oasters and fighters at the same time. out the combination is certainly rare. The northeast Georgia people know

"Perhaps you remember about the me and Brown, and there is none of French soldier who jocularly spoke of that suspicion shown toward us one the shower of sand cast by a cannon reads of as being a part of the characcall on the dispatch he had written as ter of these mountaineers. Parties 'his blotting paper.' If you did, you must have admired his coolness as who are reported as being "moonshiners" had no concealment from us. Of much as Napoleon, who stood by. course, we did not go to their stills, "A parallel case is that of the gen-

nor we did not hear them say they had eral who put a lieutenant under arrest, like to run in packs. any stills, but the little brown jugs What a pity it is that our farmers not because he pulled a pistol on him, would put in an appearance in the feel so little interest in the sheep. but because it did not go off. early morning and whet our appetites " 'I will punish you for not keeping

to enjoy the good country fare. There your fire-arms in good order,' said the is no danger in these mountain people, general, coolly. "And as he walked away, the lieu-

tenant must have felt exceedingly heap "It is not alone in war that a good

temper is requisite. The cool, selfbalanced man is always the successful man in business. To act on impulse is to act wrongly nine times out of ten. It rarely takes more than a few minutes to inquire into details and look purse becomes light. at all sides of a question before comyear, lambs, wool and manure. Any one of these will pay his board. What ing to a decision, and, as a rule, it saves hours or perhaps days of after vexaonly trouble is to get your produce to

market from among these mountains. "The man who loses his temper is This will be overcome in time, and then not always in the wrong, but, to the this will be the most desirable coun-

onlooker, he always appears to be profit would be greater. wrong. "When two persons engage in an rgument or debate, the one who keeps his temper will almost invariably get the best of it. "Why do the utterances of a judge have so much weight with a jury? for feed. I have kept more or less sheep for

over 40 years and have fewer now than ever before, but they make up in Because he keeps his temper. The lawyers may be ever so vehement, paquality. We sheared from our breedthetic or angry, but the judge must be calm and cool, or he is not fit to be ing ram 23 pounds of wool in the dirt; four ewes yielded 181, 16, 15, 14 pounds. This is merchantable wool judge.

"Boys and girls are men and woin the dirt, which means one-third men in miniature, and youth is the time to form the habits of after life. less than brook washed wool, that is, "Think twice before you speak once,' is an excellent rule for your guidance. To keep your temper, you cannot afford to speak hastily. "To keep your temper is to be pop-

The man I speak of was a blackular. If you will notice in school and smith of the good old times, and I reamong your playmates, you will see member him as the picture of health fleeces. that the good-tempered boy or girl has and a model of fine physical manhood. more friends than the smart boy and His dwelling was close to his shop in rich girl put together. Good temper always pays. In all the affairs of life, tives to the Legislature pledged to these old times, and many has been the time that I have looked upon him no matter how much quarreling or enact a rigid dog law? It is now so as blessed as I would watch his chilfighting there may be, matters are that there are other weighty reasons finally settled by reasoning, and there why the dogs should be thinned out dren as they played under the big oak that stood near his door. But the house was tumbled down, the trees can be no reasoning until good temper and to restrain the liberties of what

have passed away and the family have rules. So why not let it rule in the are left. Only a few days ago I heard

game as the rabbit, and, unless the dog has been trained to understand - Most men avail themselves of that the sheep are not for him, he will their opportunities to make asses of attack them wherever he finds them, themselves. especially if there is more than one dog, as it is a frolic with him, and the - Corruption always leaks out more company the better he enjoys somewhere. With a corrupt heart it

the fun, though I have had sheep is at the mouth. killed by a solitary bull dog; hounds - One of the funniest things in the

world is to see a fat girl or a tall girl act kittenish.

being alike is not 1 in 64,000.000.000.

witnessed in Arizona during 14 years.

- But one thunderstorm has been

- The plumes in the helmets of the

- A cremated body leaves a resi-

duum of only eight ounces on an aver-

French dragoons are made of human

- Even in house cleaning when a since it is so easy to raise a small woman passes a mirror she "fixes flock, which pays a greater per cent of profit than any branch of the farming herself a little.

- Break down under small trials, interest! Such is my experience. and you will certainly be crushed unhave been keeping sheep for more than der great ones. 40 years and they have given me bet-ter pay for care and feed than any - Torture in always applied in

other animal, and even if one dies he China to compel the accused to declare does not die insolvent, but he has himself guilty. either paid in advance or has on his

- What is that which you can keep even after giving it to somebody else? back enough wool to pay his debts. Then it comes in at a time when the Your word. - One cannot get too much of a The sheep yields three crops every

good thing. When it reaches too much it is no longer good.

- Electricity, in its various forms other crop will do as well, and but for of application, is said to give employthe extra trouble of looking after his ment to 5,000,000 persons. safety, to guard him from the dog, the - Don't fool with a wasp because

On every fifty-acre farm in this you think he looks weak and tired-State pasturage could be found for ten you'll find he's all right in the end. or more sheep, which would about - There are very few people who clothe an average family after paying live to be 60 who do not look as if they vere tired of living, and afraid to die

> - The devil has a garden, and you work in it every time you plant a suspicion of some one in another man's mind.

- It is calculated that in 90 years, at the present rate of increase, Austra-lia will contain about 40,000,000 citizens.

it is sold and one-third deducted to - It is estimated that the coffee crop of South and Central America make it equal to brook washed wool. These are highly bred American Merithis year will be about 10 per cent nos. We could not expect so much less than last year. from a large flock. My old fashioned

- Are you plowing around that Merinos averaged about six pounds of beautiful wool, better than these heavy same rock, that an hour's time would remove, that you have plowed around for twenty years ? Now is there no way that can be de-

- A Russian scientist attributes vised to so interest our people in the all our maladies to the fact that we wear clothes. He suggests a return to man's primitive state.

- Magistrate (to prisoner)-Have you any remarks to make? Prisoner (a barber)-Yes, your honor. Your hair wants cutting.

all died or scattered, 'till there is noth-ing now but a memory. Once the smith had been a drinking man, and liked much to join in the lature I tried to get a bill through tax-- A cigarrette smoker sends into ing dogs, but it was ridiculed out of the air about 4,000,000,000 particles ever heard of a death caused by being existence. Such is the experience of of dust at every puff, according to Dr. all who have tried to restrain the dog Atken's investigations. "Nothing will preserve good looks to his owner's premises, and it is a -A camel of the largest size has to old age like a good temper.' The shame while men cry reform to let the been known to drink from 30 to 50 irritable, quarrelsome person is always dog cost the State millions of dollars gallons of water, and then travel wrinkled and distorted in visage as for what mischief he does and what without any more for 20 days. well as in mind, and the only way to harm he does in preventing farmers - The largest woodenware works from raising millions of sheep. The in the world are located in Bay City, dog is chargable with all of it, and our Mich. The present output every 10 farmers are tame enough to submit to hours is 1,800 tubs and 8,500 pails. it while they could control the matter - They are trying to invent a phoif they would. Our State is well adapted to sheep nographic disk on which a speaker husbandry; we have grasses that make can record his own orations. This fine pastures; land is cheap and fertile. is to be tested in the German Reichand winters mild. We only have to stag. feed four or five months and often not - Teacher (at the Sunday School)that much. I do hope to live to see Can you tell me, my little boy, who our first parents were? New Scholthis State raising sheep by the million. Then prosperity would come ar-Yes, 'm ; our fathers and mothand people be at peace. J. WASHINGTON WATTS. - "Cool as a cucumber," is correct scientifically. Investigation claims that that vegetable usually has a tem-Great Things From Little. perature one degree less than the surrounding atmosphere. Edward Everett Hale tells this tale - On January 1, 1895, the railroads of the Revolution : "There was a work of some inventive genius of the little, lame blacksmith boy, who beof the United States were using 31,-281 locomotives, 24,881 passenger cause he was lame, was obliged to recars, 7,900 mail and baggage cars, and terious reason all imitations thus far main at home when all his companions 1,168,849 freight cars. original is a sort of water clock, not, the Hessians at Bennington. They - "What am I to take this mediine in ?" asked the fussy old lady of erm. It is made in the shape of a narrow, was anybody at home, 'Yes,' Luke the young assistant. "In your mouth mum," replied the chemist of the fu-ture. "Tain't to be rubbed on, that ain't." "What I mean,' said one, 'is there -Gas lamps were introduced in the Paris streets in 1819.. Their emtime on the two face-boards, on the put the shoe on the horse quite ployment caused no little remark among the country people, who got an idea that there was some magic about the matter. than it takes to write it there was a twined around it, and in proportion to the rapidity of its descent the cord is "When I read," Mr. Hale goes on "When I read," Mr. Hale goes on the rapidity of its descent the cord is - It is said that the chief reason unwound. It takes the cylinder just 36 hours to make the round trip, 18 hours each way, the movement maintaining a per-fect regularity. It is, thus that the why a mule can nearly always wear out a horse, when it comes to a trial of endurance, is that the former always lies down to sleep, and the latter, in a large number of cases sleeps standing fect regularity. It is thus that the ments in memory of Col. Warner and points of the axis are made to serve as Gen. Stark and Gen. Burgoyne, I - A man in London is making a lot think of Luke Varnum. And often I f money by lending out a £1,000 Bank What puzzles the investigator most | think: 'Does not every boy who does of England note for swell weddings to be exhibited as a gift of the bride's father. A man is sent along to watch the bottom to again wind the cord Luke Varnum's work that day, perthe note, and can be made very useful at the presents' table exhibiting the Saratoga might have gone otherwise. articles. Did you ever think that on the hinge - The simplest first remedy for system of small water filled reservoirs, the world ? We are here perhaps toscalds is flour. A thick coating of this should be put on immediately, day because of a tear that once glistened on a baby's cheek. "It was the weeping of little Moses and a layer of cotton over it. After a time a little vaseline spread on lint in the bulrushes that touched the is the best treatment, but even this heart of Pharoah's daughter, so that should be covered with cotton wool ing tubes are so constituted that only she had him taken to her home and and a bandage of some kind. a measured quantity of water is ad- nursed and trained in all the learning Sometime ago I was troubled with mitted into the reservoirs and the of the Egyptians. In the the court of an attack of rheumatism. I used Egypt, he was prepared to become the forerunner of Christ, and the leader Chamberlain's Pain Balm and was completely cured. I have since adof God's chosen people. "How little we know what any vised many of my friends and customers to try the remedy and all speak highly of it. SIMON GOLDBAUM, San smallest act of our own may do ! "Who are you and I that we should Luis Rey, Cal. For sale by Hill Bros. pick and choose when we do not know - The best tea in Japan is raised what may come out of the little things in districts where the snow often falls God sets against our hands? Cer to the eaves of the houses. Many tainly we should not have had the perplants will survive under such snow fect example of Christ had he not that are not hardy even in the Southstooped for us to the nobler doing of ern States. By the same rule, some each daily duty. varieties of Japanese lillies will sur-"Do you not see how this daily life vive Vermont winters that are not of yours may be God's mission for you hardy in Missouri. if only in it you seek to do, as Jesus - An entire book can be reprodid, even the least things that the duced without setting a line of type Heavenly Father sets against your by photographing each page separate-ly and making a photo-engraving of it. There is in New York a weekly newshand ? - A miss is as good as a mile. This is probably why a man doesn't paper of eight pages, six of which are

coal forests flourish. It is earlier than sand, which is filled by the rising tide, the supreme moment, countless milaffects, to a certain extent, the revolions of years ago, when living organ-isms, first became inhabitants of this lution of this earth about its axis. This withdrawal of energy from the globe. Even here, however, our reearth is incessantly taking place along trospect must not stop. We have yet once more to look back through certain almost every coast. From day to day, from century to century, from zon to nterior periods to a time when our æon, energy is daily being withdrawn earth was in its earliest youth. The and daily wasted, never again to be restored. As the earth has no other chapter of history about which I am now writing is indeed in the very means of replenishing its stores, the consequence is inevitable. The quan-It might be thought that it would tity of energy due to the rotation of be utterly impossible for us to learn the earth must be gradually declining. anything with regard to what took Stated in this way, perhaps the intiplace at a time so immeasurably anmation is not very alarming, but, erior to all sources of tradition, and placed in other words, the results at indeed to all the ordinary channels for which we have arrived assume the obtaining knowledge by observation. more practical expression that the It however fortunately happens that tides must be gradually checking the speed with which the earth turns the darkness of this early period is illumed by a bright and steady source round. The tides must, in fact, be of light which will never deceive us if increasing the length of the day. In only we will follow it properly. Our consequence of the tides which ripple trustworthy guide is to be the pen of to and fro on our shores, and which the mathematician, for it is well flow in and flow out of estuaries and known that, unless we are going to rivers, to-day is longer than yesterday, dispute the fundamental proposition and yesterday is longer than the day before. I may, however, admit at

that two and two make four, we cannot impugn the truths which matheonce that the change thus produced is matics discloses. This science knows not very appreciable when only modao boundaries of space. It recognizes erate periods of time are considered. o limits in time. It is ever ready for Indeed, the alteration in the length of iscussing operations which take place the day from this cause amounts to no ither in the millionth part of a second more than a fraction of a second in a or in the lapse of uncounted millions of centuries. The process of mathe-matics are alike available for tracing out the delicate movements in the in-

look further and further back. we see ent to drive for a few seconds the mathe moon ever drawing closer and chinery through the mill. But the closer to the earth, until at last we discern the critical period in earthstore of energy in the flywheel would necessarily become speedily exhausted and the flywheel come to rest unless moon history, when our globe was spinning round in a period of about it were continually replenished by the action of the engine. The earth may be regarded as a ive or six hours. The moon, instead of revolving where we now find it, was then actually close to the earth. mighty flywheel which contains a proearlier still it was in fact touching digious store of energy. That energy our globe, and the moon and the earth is. however, never added to, for there were revolving each around the other, is no engine available. If, however, like a foot ball and a tennis ball actuno energy were withdrawn from the ally fastened together. earth, then the globe would continue It is impossible to resist taking one to spin round its axis once every step further. We know that the earth twenty-four hours, forever. As howwas at that early period a soft molten ever the tides need energy to get mass of matter, spinning round rapidthrough their work, they abstract what they require from the store which they

important duty which the flywheel performs in a mill. The flywheel, in fact, may be considered as a reservoir Looking back through the mists of

The speed seems to have been so great that a rupture took place, a porfind at hand in the rotation of the tion of the molten matter broke away earth. Next time you see the tides from the parent globe, and the frag scouring up and down a river you may ments coalesced into a small globe reflect that the power which impels That the moon was thus born of our that mass of water to and fro has been earth uncounted millions of years ago obtained solely at the expense of the is the lesson which mathematics despinning of our globe. Indeed, the clares it learns from the murmur of little child who digs a moat in the the tides.

The Blessing at the Table.

The blessing at the table has much to commend it-the example of Christ, try to live on the face of the earth. the necessity of cultivating household religion, and the sense of gratitude The section has everything to recommend it. The soil is rich, the water for mercies received. It is a small so pure, the fresh air so bracing and feature of our domestic life, though healthful, that it is no wonder the entering potentially into it. In many mountaineer is recognized as brave households it is omitted altogether, and generous by those who know him either from diffidence or indifference. except when a visiting minister is as he is. In the travel of a week I failed to being entertained. Around some tafind a single thing save just one incibles it is a form injected irreverently dent that was brought to my mind by in the clatter of dishes and the chatvisiting the mining region of Dade ter of tongue, a sort of empty phrase that could throw a damper over the which propriety demands. Sometimes spirits and good cheer engendered by with an excess of zeal it becomes a the surroundings. The mines recalllong-drawn-out petition testing the ed a poor fellow that was sent from nerves (and the necks) of the little my section to serve a term of twenty ones. Many seeing the abuse of this years there, and the story is worth ordinance have been led to ask what good it does. Do we say it lest otherrepeating, that the young generation may be impressed to their advantage. wise there may be death in the pot? Do we utter it as a pietistic formula What do we mean by "asking the blessing ?

To say "grace at the table," then, is, in a word, a momentary turning of the spirit heavenward in prayer and praise. It means, first of all, thankfulness for the mercies spread before us, and for the unnumbered benefits period of a thousand years. Even in of which they are the representative. the lapse of ordinary history, there is no It means a fresh emphasis of the recognizable change in the length of truth, which we are prone to forget, the day. But the importance of our that all our blessing show from the the size of a grain of sand or argument is hardly affected by the "goodness of God," and are designed to "lead us to repentance. the day is lengthening is a very slow the ceaseless recognition of the fact one. The really significant point is that the strength which our "daily that this change is always taking bread" affords should be spent in serplace, and lies always in the same vice for the kingdom. It means that the Christian would see in the provision of bread statedly supplied a constant reminder of the "true Bread." It means the earnest petition that in everything we do, "whether we eat or moment. drink," we may glorify God. It means a renewed affirmation that we believe in the duty, dignity and the potency geries, and at this little house the of family religion. Ought not an orsmith was led to stop for a moment. dinance that suggests all this to be "Don't go in, papa," pleaded his little boy, as the smith drew up his earnestly and heartily enshrined in Christian homes ? reins and stopped the horses. Practically a word. Four essential principles should regulate our manner of "giving of thanks" at the tablesincerity, brevity, variety on the part of those who ask the blessing and unity of sentiment on the part of all who are present. The last may be secured impressively by the general response "Amen" at the close of the of the plank counter of the bar. uttered prayer. As for variety-this may be obtained in many ways. The likely, when it revolved once in contents as well as the form of the is holding the team, and my folks prayer may be changed. The blessing may be asked silently, as the friends do who simply bow the heads in quiet or it may be sung with fine effect. If one acts for all in saying grace, it need not always be the same person who voices the general thanksgiving. The consecrated ingenuity of the readers of this article will devise other ways, cern an epoch when the length of the if necessary, in which to vary the day, having declined to eight hours manner of "asking the blessing." A knowledge of the various methods of observing this household ordinance is the time when the moon's story in different parts of the world would help to exalt it to its proper place in the earth accomplished about four the home. The forms given below revolutions in the same time that it are those which are perhaps most fre-

who attend to their own business, and every latchstring hangs outside the door for any one who is not a med-It is hard for me to decide which is the best scope of country through all the stretch we traveled. The valleys between the hills with crystal streams a-flowing and delightful springs gushing out from the rocks at the foot of these hills are so pleasing to an old man that we are more than apt to see only the bright side of the section. The

SARGE PLUNKETT.

tain People.

Atlanta Constitution

Such a trip as I have just closed up

through northeast Georgia is calcu-

- From any other Market when ----



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OUR Goods are bought in large lots from the Manufacturers for CASH Our expenses are much lighter than dealers in larger cities, who sell almost exclusively through Sub-Agents, thus adding largely to the prices charged you. And, besides, we have the LARGEST STOCK IN THE STATE to select from, and every Instrument is sold under-

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fre under a steam boiler is in one sense no doubt the cause of the energy developed; but we do not, therefore, assert that the power of the engine is rather, from the fuel whose consum-tion is started by the match. It comes, rather, from the fuel whose consent the tast of the eart. It is one that the tidal energy is started by the match. In like moner, though the moon's attraction causes the tides, yet is not that the tidal energy is drawn. There is only one possible source for the energy necessary to sustain the with mechanical matters knows the anywhere I have been since the war. | weather and are troubled with bowel fire under a steam boiler is in one ther to-morrow than it is to-day. The Best Coffee, Th Cheapest Flour, Crockery, Decorated and Plain, Dinner and Tea Sets, All for less Money than you have been paying. J. P. SULLIVAN & CO.

for investigating the properties of space so vast that the whole solar system only occupies an inconsiderable point by comparison. Let us there-fore see what this infallible guide has direction. - It is this latter circumstance which gives the present docmentous epoch in the history of our system when the moon was born. trine its great importance as a factor in the development of the earth-moon Our argument proceeds from an ex-tremely simple and familiar matter. vstem.

We are accustomed in astronomy to Every one who has ever been on the eason about movements which adsea shore knows the daily ebb and flow vance for vast periods in one direction, of the waters, which we call the tides. and then become reversed. Such Long ere the true nature of the forces movements as this are, however, not by which the moon acts upon the sea the real architects of the universe, for was understood, the fact that there that which is done during one cycle of was a connection between the tides years is undone during the text. But and the moon had become certainly the tides are ever in operation, and known. Indeed, the daily observatheir influence tends ever in the same tion of a fisherman or of any one whose direction. Consequently the alterabusiness was concerned with the great tion in the length of the day is condeep would have taught him that the tinually in progress, and in the course of illimitable ages its effects accumutime of high water and the time of full moon stood at each place in a cer-tain definite relation. The fisherman late to a startling magnitude.

The earth now revolves on its axis might not have understood the precise once in twenty-four hours. There influence of the moon upon the tides. was a time, millions of years ago, very but if he had observed, as he might in some places, that when the moon was twenty-three hours. Earlier still it full the tide was high at 10 o'clock in must have spun on its axis in twentythe morning, it would be perfectly obvious to him that the moon had two hours, while this succeeded a time when the day was only twenty hours. some special relation to this ebbing The very same arguments applied in and flowing of the ocean. Indeed, we those times which apply at the present, so that if we strain our vision cognizing that the moon and the tides back into the excessively remote past, must be associated, were still in some we find the earth spinning ever more considerable doubt as to whether it and more rapidly, until at last we diswas the moon which was the cause of the tides, or the tides which were the and seven hours, had at last sunk to

The ebbing and flowing of the tide something like five or six hours. This opens up this chapter in remote history, which we can now explore, commences. At this eventful period mainly by the help of the researches of Prof. George Parwin. For, as the tides course backward and forward, now requires for a single one. We do quently heard : sweeping to and fro vast volumes of not attempt to assign the antiquity of water, it is obvious that the tides this critical moment. It must cer- to Thy service." must be doing work. In fact, in some tainly have been far earlier than the places the tides have been made to do time when this earth became fitted for give Thee thanks, O God. useful work. If the water as it rises the reception of organized life. It be impounded in a large reservoir, it must have been at least many millions food ; may we spend the strength it and up the road little John lay dying can be made to turn a water wheel as of years ago. If it be thought that gives in more acceptable service to it enters, while another water wheel the vagueness of our chronology is Thee.' can be driven as the reservior empties rather unsatisfactory, then it must be itself a few hours later. Thus we remembered that even historians who Thy remembrance of us and for Thy produce a tidal mill. It is quite true have human records and monuments provision for all our needs.' that, so long as coal remains tolerably to guide them are still often in utter cheap and steam power is consequently readily available, it is not often rossiuncertainty as to the periods during ble to employ the direct power of the tides in an economical manner. For ties rose or perished. our purpose it is merely necessary to But our story has another side to it.

note that, day after day, week after Among the profoundest laws of nature week, year after year, the tides must be incessantly doing work of . some is that which asserts that action and reaction are equal and opposite. We

kind or other. have seen that the moon is the cause Every practical man knows that a certain quantity of work can only be of the tides, and we have further seen that tides act as a brace to check the done by the expenditure of a certain quantity of energy. He also knows speed with which the earth is rotating. This is the action of the moon that there is in nature no such thing as the creation of energy. It is just as impossible to create out of nothing the energy which should lift an ounce action must be inevitably accompanied. In our ordinary experience we observe that a man who is annoyed by weight through a single inch as it would be to create a loaf of bread out of nothing. If, therefore, the tides another feels an unregenerate impulse are doing work, it follows that there to push the annoying agent away as must be some source of energy on far as possible. This is exactly the must be some source of energy on which the tides are enabled to draw. form which the reaction of the earth assumes. It is annoyed by the moon, Λ steam engine is able to put forth power because of the energy developed | and accordingly it strives to push the from the coal which is continually moon away. Just as the moon, by its supplied to the furnace. But where action on the earth, through the medium of the tides, tends to check the is the equivalent of the coal in the speed with which the earth is rotating great tidal engine ? We might at first on its axis, so the earth reacts on the hazard the supposition that, as the moon, and compels the satellite to moon is the cause of the tides, so we must look to the moon to provide the adopt a continuous retreat. The energy by which the tides do their moon is therefore gradually receding. work. This is, however, not exactly It is further from the earth to-day the case. The match which lights the than it was yesterday, it will be fur-

"Bless this food to our use and us "For these and all Thy mercies we

"We thank Thee, O God, for this

"We thank Thee, our Father, for

"We recognize in these mercies the world. hand of the Giver. O Thou who which mighty empires flourished, or givest liberally and upbraidest not, as to the dates at which great dynas- may we in return give ourselves more unreservedly to Thee.

"Help us to do all that we do. whether we eat or drink, unto the glory of God." "May this food, our Heavenly

Father, remind us of our need of the never forget the look of that poor man true Bread, of which if a man eat he shall live forever."

"Bless the Lord, O my soul, and all that is within me bless His Holy name. Bless the Lord, O my soul, and forget not all His benefits.' [Repeat in concert.]

- Advertisement writing is becoming a regular branch of literature in the United States. Some of the firstclass writers command salaries of \$10.-000 a year, and now the young men, there in this broken-down old man I are regularly training for this work, and going to college in preparation.

- The dolphin is said to be the fastest swimmer in the seas. It has he went: been observed to dart through the water at a rate computed to be much greater than 20 miles an hour, and is often seen swimming round and round a vessel which is sailing at highest speed.

Deafness Cannot be Cured

man, and liked much to join in the long-lived. People have been known sports that then pertained around the to die in a fit of anger, while no one cross-roads grocery. But he had turned over a "new leaf," as the saytoo placid.

ing goes, and had become a prosperous and happy father. Twenty years ago this smith was sent to Dade County as the penalty of a rash act in an evil

He, with his little son, John, was avoid these terrors of old age is to returning home from the village. On keep your temper." the roadside stood one of these dog-

A Clock That Runs a Century.

A thing to rival the seven wonders of the world, if not in size and elaborateness, at least in ingenuity and

"Ah, John," said the father, "you have all got to treating me as though variety, is a clock that requires wind was a child," whereupon he pushed ing only once in 100 years. Nor is it the reins into little John's hands and a modern piece of mechanism. Such bid him mind the team for a moment. a horological curiosity is actually in existence and is now in the possession In another moment he was standing of M. Pottin, who lives in Ivry-surwith some of his old associates in front Seine, France. Nearly a decade ago

he bought it of a farmer, who had in-herited it of his father. Neither the said "Just one drink, comrades," the smith; "and hurry, for little John latter nor his son could tell how it came to be an heir-loom in the peasant treat me as though I was as weak and tender as a babe in these days, and family.

little John will be grieving if I don't Expert clockmen claim that it is the petition, or it may be said in concert, or it may be sung with fine effect. If In haste the drinks were poured into work of some inventive genius of the period of Henry II. For some mysthe glasses and the smith was hurrying to return to his boy. Just a mo- attempted have been failures. The went to join General Stark and fight ment he was detained to get his change from the bar-tender. This was the however, in the accepted sense of the had been gone but a while when some fatal moment. A rough, rowdy fellow

staggered up from a dark corner of the upright chest. In its front slits a said; 'I am here.' little house and, getting between the smith and the door, insisted that he cylinder is suspended on stout cords. smith and the door, insisted that he cylinder is suspended on stolt colds. had been insulted in not being invited The cylinder turns on its axis as it anybody here who can shoe a horse?' 'I think I can; I will try.' So he to drink, and nothing would do but a moves up and down and indicates the fight to settle the matter. The smith was no man to back one the hours and on the other the thoroughly and well. And when it down from a fight, especially after he half and quarter hours. When the was done, one of the men said : 'Boy, had taken one drink. In less time cylinder is on top then all the cord is no ten men who have left you to-day

man was lying dead upon the floor, unwound. the smith's team had become frightened and run away, smashing the wagon, at the root of a tree.

The smith was arrested upon the charge of murder, found guilty and correct time indicators.

sent to the Dade coal mines for 20 years, while the poor wife and two is how is it made possible for the un- his duty have the future of the world little girls were left all alone in the wound cylinder when it has arrived at upon him?' Had it not been for around itself and be drawn up to the haps the battle of Bennington and of In two years the mother died, the

two girls drifted away and were lost It is vested with this power of regusight of, while the father fretted for 18 years in the mines. In some way | lar movements by a very complicated | of a baby's tear hung the destiny of he was turned loose after 18 years and returned to his old home, to find all with which it is connected and which serve as a propelling power. The inthat he had known to be gone. I shall cessant moving up and down of the upon his return. I saw him coming cylinder keeps up a constant change of the center of gravity. The receivlown the road, bent and gray. He halted at our gate and leaned upon the gatepost. He looked at me and then at my wife, and then his eyes would wander off at the trees. same precaution is taken at the out-"Come right in, stranger," said I. lets. It has been calculated that the

Not a word did he speak and not a cords wear out in a little more than nove did he make, save to stare about 100 years and that enough rust collects in the buckets to require clean-ing or replacement after the same

saw the smith of 18 years ago. As I approached him he turned and

drink!"

the hens sing merrier, the turkeys strut prouder, in this section than

who are teething this hot summer

on one side, from which it is practiside it is transparent. It is proposed to use this type of glass for glazing windows in city residences, for, while t will not cut off light or vision from the interior, it will prevent outsiders

- I have too little grand children

him in a dazed manner. My wife vowed that it was some crazy fellow; but, crazy or no crazy, I length of time. hobbled out to where he was, and - A transparent mirror glass, recently introduced in Germany, reflects

wobbled down the road, muttering as cally opque, while from the other "The price of a drink! The price of

But everything is bright and cheerful in this mountain region. It seems to me that the roosters crow louder. from seeing into a room.