Plan to Keep Track of the Shifting Surface of the Globe.

ALTERED COAST LINES

Islands Are Born and Disappear Every Year-Man's Part in Ro building Instances of Destruction Wrought Within Short Time -Former Accounts Unreliable.

For years great attention has been given to the study of the movements of the atmosphere and of water surfaces, but such a thing as systematic record of the changes on the land surface, excepting those caused by earthquakes or the growth of the deltas or a few phenomena along shore lines, has never been attempted. Prof Tronnier illustrates his idea by many occurrences in 1905. If records as he proposes had been kept for centuries past they would have been a very valuable contribution to the history of our planet. Here are some of his notes relating to islands

"The steamship City of Panama, on January 21, while off the coast of southern California and many miles at sea, passed through a belt of water miles in width that was covered with trees, plants and the bodies of animals. The mass of drift was so thick that the vessel made her way only with the greatest care Many trees were from five to six feet in diameter and the dead animals were of many kinds. The only theory concerning this find is that one or more of the four islands forming the Revillo Gigedo group, uninhabited by man but with fauna and flora of tropical richness, may have been destroved by some natural calamity

In midvear the Milli island, in the Pacific, was almost completely washed away by great storm waves, 179 persons losing their lives Most of the island is now twelve feet under water

Among the examples of destruction along coasts, Prof Tronnier mentions the Portuguese fishing town and watering place Espinho, which in the last months of 1904 was almost daily assaulted by sea waves that gradually destroyed the beach and invaded street after street The effort to protect the town failed and at the end of January eighty-one houses had been washed away. The ocean now occupies the place where they stood, and as it penetrates further into the land with every storm it is likely that the entire town will be destroyed

Early in January a wide piece of mated to weigh 4,000,000 tons, fell into the sea This is the greatest destruction of coast in British waters in the last half century

On July 22 a dry dock in the Bay of Naples was suddenly moved about 600 feet to the right in consequence, it is supposed, of a sharp movement of the sea floor

Early in the year there was an enormous landslide on the slope of a mountain bordering Lake Lone in Norway An immense quantity of rock fell into the lake, causing high waves that poured upon the opposite shore, destroying a whole village. Fifty-eight persons lost their lives. and a little steamer was torn from its moorings and carried about 1,000 feet inland. Among the many landslides in the Alps were five of special importance in which human life and a considerable quantity of property were destroyed.

On November 5 a landslip of unusual magnitude carried about fifteen acres of land from Moen Island into the Baltic. All of it was either tilled land or fine forest and the loss of property was considerable.

Among the changes caused by flowing water Tronnier mentions the new channel which the Rio Grande on our southern border made for itself in June last for a distance of eighty miles. About 100 persons lost their lives by this catastrophe and the American town of La Mess now lies half a mile south of the Mexican shore of the river.

Of course human influence is very potent in producing changes on the land surface. Among the instances which the professor cites is the complete removal of the little mountain. Spitzenberg, in Prussia, which has been entirely dug away by a railroad company that had use for the earth and rock it contained. The top of this little eminence was often sought by tourists to enjoy a particularly fine view of the Havel valley.

The village of Upleatham in Yorkshire has been undermined by coal mines and is steadily sinking. During the last twenty years its population has declined from 800 to 70. Since 1900 the church, school, three barns and trenty-five houses have been destrayed by the frequent earth movements

## The Pastor Meant Well

A local rector who had been consistently opposed to his flook engaging in the dance during Lent promptly gave his permission for a young folks' reunion at the parish hall enjoining this provision, how-

"You may waltz and polka to your heart's delight, but I will not tolerate what is called round dancing."

The same clergyman had previously asked the prayers of the congregation for the 'speedy death or happy recovery" of a certain parishioner. An irreverent hearer supplemented by remarking sotto voce to his fellow worshipper that "many are cold but few frozen."

LONDON'S BUSINESS DAY.

Begins About Ten O'Clock-Com

trast to Other Cities.

Undoubtedly London starts its day's work later than most cities. says the London Chronicle, and Mr. G. R. Sims, in the Referee has been calling on London to "get up." Having "got up" himself, to learn the slang of the early morning sweep, he strolled through London, and found that at 8 o'clock most of the popular refreshment places in the Strand were barred and bolted against the seeker for breakfast.

At half past nine "young gentlemen in their shirt sleeves were sweeping the front of their masters' shops out and smothering the passers by with dust." For London is not really at business, shaved, bathed and dressed, until ten, and you are lucky if you catch your magnate before eleven.

In other capitals the case is very different, and this writer remembers nis surprise at being asked to call on business men in Chicago at eight in the morning.

Paris gives one the impression that it never goes to bed at all. The traveller who arrives before seven in the morning will find the cafes swept and garnished and ready to give him break fast. And having breakfasted under the trees with the morning swirl of Paris around him, this writer bought some books in Montmarte at half past seven. Is there a bookshop in London that opens its doors before nine?

Russia's Guarded Secret. One of the secret processes which has for ages openly defied the world of science is the iron trade of Russia The secret of making Russian sheet iron is owned by the Government, and when a workman enters the service, he bids a last fare well to his family and friends and whether he lives or dies all trace of him is forever lost. There have been several desperate attempts made to steal or betray the secret, but in every ininstance it has resulted in the death of the would-be traitor. In one case a letter attached to a kite, which was allowed to escape, was picked up by some peasants, and despite their protestations that they were unable to read, they were at once put to death by the guards to whom they delivered the letter. It was afterward decreed that the guards themselves should pass their lives within the works, and to this day the secret remains as hidden as the philosopher's stone. - Exchange

American Architectural Beauty. With the rebuilding should come a reform of the paving of the Pacific city, for never was a great modern town so vexed with cobbles, says the slums, in the sense of the word too familiar to us, but the smart streets had a dreadful surface of discontinuous stones, set up to harass the wayfarer's foot. The Chinese, in their thick-soled slippers, had the best of it. Is it, by the way, as a matter of courtesy to the memory of the recently deceased, that San Francisco has been a thousand times called beautiful? It was by no means beautiful Nor is there any city of that date and character in the United States that can claim architectural beauty. The best looking towns in America are colonial; parts of Boston and parts of Philadelphia wear their red, green, and white with a cheerful dignity.

## Alarm Clocks That Speak.

They are making clocks now that speak the hour instead of striking it. They do this through an ingenious adaptation of the phonograph idea. When a young man who is calling at a late hour hears the new clock remark in clear and cutting tones, "12 o'clock," he will be very apt to gasp and ask the young woman if that was her father's voice. To make such a clock available as an uplifter of boyhood it is necessary to closely echo the words of a father who is used to being heard and obeyed. No soft spoken "Jimmie, it's getting late," will do. What is wanted is the good, old (ashioned, "James, you tumble down those stairs quicker'n scat! Do you hear me?"-Cleveland Plain Dealer.

Freight Car Facts.

It is estimated that out of a total of \$40,000 goods wagons ordered by the ratiways of the United States in 1905, 161,000 were specified to be fitted with steel underframes, and 179,000 were to be built of wood. The figures show that for wagons of 80,000 pounds capacity or more, under the sever conditions of modern service, steel has decided advantages in efficiency and secondary. M all wagons built in 1905 it is estimated that nearly 75,000, or about 45 per cent, were furned out by the eight blants in the United States that are equipped for building bodies and steel underframes.—London Enci-

There is an increasing tendency on the part of large consumers of water in London to draw on the water reservoirs in the lower geological strata beneath the capital rather than be indebted to companies for their water supply. The latest institution to show its independence in this fashion is Clements' Inn, where, not twenty yards from the Strand. an artesian well has just been tapped. after three months' boring, at a depth of 450 feet.

A statistician says one out of every sixteen women in this country is working for a living. And this does not include the army who "keep house" and mind the baby.

## A Faith on Trial.

By Aaron Rodd

MACHINE CONTROL CONTRO "What is it makes you so glum old man?"

The speaker was young man of wenty-eight and the man addressed was about the same age. There was, however, a striking contrast between the two. The first was, perhaps, the less interesting of the two, his square face, firm jaw and solidly built frame seemed to proclaim him an admirable specimen of the average man, so full of common sense as to have no room for ideals. His companion was, on the contrary, a noticeable man. A man, it could be seen filled with quirotic notions, a poetical and highly strung temperament, the chief visible sign of which was the finely formed nose and sensitive nostril. The friends, for such they were, walked slowly along the Thames Embankment in full enjoyment of a surprisingly mild morning



She asked for an explanation.

in March. When they reached Cleopatra's Needle, Martin Atock made the remark with which our record of a remarkable episode opens. His companion, Richard Lyon, replie somewhat gloomily, "Because I have lost all faith in womanhood."

His friend, surprised, exclaimed, "By Jove! What a loss."

"I' is a loss, a very great loss," said Lyon with emphasis, and added as he grasped Atock's arm.

"I did not tell you I am engaged to be married."

"Married! By Gad, you surprise me. Not knowing the lady. I suppose I can't congratulate you, and knowing so well, with your poetic fads and fancies. I'm afraid I can't congratulate her! That's the situation. I fancy. Seriously, dear boy, I'm delighted. But are you sorry that you're about to be tied up? Is that what's the matter? And where does the loss of faith in womanhood come

"Let's us take one of the seats in the gardens for a moment, and perhaps when I tell you the facts you can belp me."

They seated themselves, and Lyon, tapping the sole of his hoot with his stick as he rested one leg on the other. seid slowlykes beautyw santas vijek "I am as I told you, engaged to be

married." "And I have congratulated you on the fact," said Aleck. "I hope you'll be very happy."

"Yes; but I've got myself into a horrid mess, in this way. I have been engaged now three months, and the day before yesterday I wrote a long letter to my fiancee."

"Well, that was not a very wrong

thing to do." "Will you listen? I wrote to her as one does to the girl one hopes to make one's wife. Naturally I used very strong terms of endearment, and I am worried to death by the fact that writing in the office, as I did, in a hurry I put my letter into an envelope addressed to a girt, have only seen once and never said

more than 'It's a fine day' to." "Well, there's nothing criminal in all this. The recipient may smile or laugh at you, but if she's a lady she'll return the letter without a word, and by and by you'll both forget all about it."

"What worries me, Martin, is this. I wrote, as I told you, in a very strong strain. I let my feelings ran away with me, and I ered had the temerity to ask my wife to be to come to my rooms at half past seven to-night and promised to take her to the theater.'

"Yes; well, you thing you've given the show away, so to speak, to a stranger. Is that it?"

"No," said Lyon shortly." I did not mention my fiancee's name at all, so the person to whom the letter is addressed cannot be identified--"

interrupting. "Can't you see that there is some thing worse than what I have yet told you?"

you groaning about?" cried Atock

"Dear old chap, tell me what fit is," said Atock fully won at last to view the matter in a serious light.

"The tragedy lies here," said Lyon. "I write and ask a lady to come to my rooms. The letter is addressed to my flances, but it reaches the hands of a lady who is an utter stranger to me!"

serious face with an almost superhuman effort, "and the tragedy?" "The tragedy is that she has accepted my invitation! She is coming

to-night, she writes me, and even add that she does not mind whether we go to the theater or not." "Well," said Atock, "that is awk-

ward, I must admit. You're in a beastly fix. I'll tell you! I have it. You did not say you'd be alone I'll be there with you. That will settle the matter, eh, my boy?" "If it could have been so easily

settled I wouldn't have bothered you about it," said Lyon with marked veration. "I told you I wrote a very strong letter, an impassioned loveletter, in fact, and I said over and over again what delight it would be to me to see her-I mean my flance: -alone for five minutes, for her old cat of an aunt never gives her a moment's peace."

"But, by the way, you don't mind letting me know the name of the

"Let you know! Certainly not. I wouldn't reveal it for worlds." "I mean, dear boy, the name of

the girl you are to marry." "Oh, I don't mind telling her name to you, of course not. You've

met her-Bessie Biddulph." There was another pause and then Atock cried: "I have it! Why not get Bessie-I mean Miss Biddulph-to meet the lady?"

"Really, you're getting to be idiotic," shouted Lyon. "A nice time I'd have explaining how the whole don on a "whole school day" for a afair happened! I'd have to admit court at Buckingham Palace or other that my letter to Miss Biddulph went astray, and there's nothing in the letter to prove to whom it was ad- summoness are, of sourse, of the madressed! It commences, 'My Darling ture of royal commands, which must old letters, State comments, printed Girl.-

"Oh, Miss Biddulph knows you've only got one!" laughed Atock.

"Hang it all, can't you have sense?" said Richard, thoroughly ir-

Seeing that his friend was truly perplexed, Atock began again:

"It is worrying, but where, to revert to my original question, does your gloominess and loss of faith in womanhood come in, and is there anything very, very incriminating in the contents of your letter?" "Nothing incriminating, but how

can one have any faith in woman if you can invite an almost unknown blameless antecedents in the manner I have told you, and discover to your does such a thing, why not all?"

on savagely. "I've gained a lot by telling you about my worry, haven't I? I shall meet her and tell her its era. It is navigable for only one hun-I? I shall meet her and tell her its ers. It is navigable for only one hunall a mistake, I don't want to comdred miles from its junction with the other problem which has some up it promise her or myself. I might have Columbia to the Idaho boundary, bother our pedagogus, and it is not called upon her; perhaps I'd better wire, but on the whole I think I shall see her-though I've no respect for the brazen baggage."

"She's not a brazen baggage," said Atock, with sudden warmth. "How in heaven's name do you

know?" cried Lyon. "I never mentioned her name." "No, you did not," said Martin, "but I think you should be just to

the poor girl. You're a very fascinating fellow, you know, old chap, quite a ladykiller, you know."

"Well, thank heaven, I'm not an exasperating idiot. Thank heaven I've got ideals and live up to them. Thank heaven I've reverence left for ence has been rudely shaken by this much so that they still beer the wood and gravers of maken he -this disgraceful parallelogram in prints of the boards which made up anostors have tone to petilcoats as I believe O'Connell the forms which held the constate in called a particularly offensive piece its semi-liquid state at the lime it

friend who can get you out of the of putting large masses of some mess your high-flows, ideas have got concrete, masonry follows exactly you into," said, Atock. "I happen the scheme used in building these are to know the lady you are speaking clent walls of Cludad Rodgies. The so disrespectfully about."

"You do?" cried Richard. "Who is she then-for I shall not tell you, even if you're right."

"Her name is Ada Beatrice Pureer," said Martin solemnly. Lyon gasped.

She is a lady for whom I have a profound respect." continued Atock. "I was with her when your letter

arrived. ----"And you respect a 'lady' who can accept such an invitation as was mine?" asked Richard.

"Certainly I can," calmly replied Atock. "You're not the only one engaged to be married, my boy. I am engaged to Miss Purser!

"Then what on earth is the mean-

ing of her conduct?" asked Lyon. "Simply this. I dised with the Pursers on Tuesday. Ada's father has consented to her marrying me. She received your letter in the emvelope which you had addressed to her in reply to the questions on English literature which I had saked her to put to you under pretext of being a soul thirsting for knowledge. I know you are fond of being consulted as a kind of watchdog of knowledge. Of course she could make neither head nor tail of your letter. and I-I made her write and accept your invitation, which appointment, of course, she never intended to keep, and I-well, I called to see you this morning just to see the effect "Then what in Heaven's name are her letter had had on you. Of course, I did not know then that you were engaged to be married! So

NEW YORK SAMARITANS

The Pallen Horse, the Calm Driver and the Willing Helper.

It has been said of New Yorkers and the saying is supported by a "Yes," said Atock, keeping a very series of traditions, that If the wind Paper Department of the Uniblew of a man's hat in New York at States Government's States are series of traditions, that if the wind least fifty persons will run to pick it shorts at excellent stample up, anxious to recover it, brush it and run back a block to return it to the in New York recently save as int

Recently a horse drawing a heavily loaded wagon on the Bowery slipped and fell. Before the salmes got die to breeching.

The driver looked tired and ments and menty of the place seemed to enjoy his cigarette and the respite from work. In a minute horse and wagon were surrounded by a crowd.

pretty soon the horse was on its feet, only was this the rase, but seperathe harness adjusted and the growd of an important and confidential scattered. The driver didn't move an character found their way into the lach from the time the horse fell un- | hands of nutsiders, sometimes with til he clucked to the horse to resume the trip. He didn't even smile. He took' it as a matter of course.

The King's Page of Honors

The post of page of honor to the lovereign does not carry with it, as to deal. it used to do, the right to a commission in the guards without examination of any kind, but it is still a covto it which are much appreciated by the sprigs of noble houses, who are lucky enough to receive the appointment, says Modern Society. It is not. for example, an unpleasant experience for a fourth form boy at Eton or Harrow to be summoned up to Lonstate pageant, while his school fellows are toiling at their books. Such be obeyed, as a certain headmaster matter, old account books and the discovered to his cost during his weeks preparatory to the coronation, over to the sorters, who cleanly a when he ventured to object to the under twelve heads, and plot it see frequent calls upon certain of his pupils who happened to be royal pages. and were wanted to rehearse in London for that august ceremony.

The Scenic Marvel of Idaho. The world is less familiar with the Snake River of Idaho than with any other river of importance in the United States; and yet it is our sev- from the rest. The sut fragments are enth largest river-more than a thousand miles long, says World's conveyed in charge of an officer as Work. It is one of the most wonder the pulp mill, and there reduced to girl of undoubted social position and ful and impressive waterways in the world. The few who have tried to Manother section of the water peper follow its winding course through department contains the said ribben. horror that such a proposal is ac- wild and forbidding extents of lave from the more talegraphic base cepted with alacrity? If one girl plateaux, do not wonder that so little ments. This police in set the region is known of it, for no railroads tra- about mitton hundredwalant has verse the lifeless desert that horders measuring approximately 300 miles. it, and no boats, for hundreds of miles at a stretch, dare ply its wat-

and in several isolated sections of the interior. For the greater part of its problem of understanding. There a course it flows through an old and so many men writing on tale to magnificent canyon of its own mak- as to give the impression that ing through desolate and awful are attempting too much it our se wastes, the result of vomiting craters pensive squestional scheme, and convulsions of the earth.

Roman Way. employed it in road building and city of Cluded Rodrigo has walls er cid messinic his this best set isting at the present day in which are into a poor presider who fall play buried large howlders of stone. These the rest of his life. It is now walls are in a good state of preserve binied that many of our sew t of womashood. Thank bearen was but in it was little the fine the first them for the wife we like.

"Thank heaven that you've got a fer to note that the modern practice.

Triend who can get you got a fer to note that the modern practice. method not only reduces the cost of the resulting (shrie, but also makes senied by those who have built up to it stronger. - Scientific American.

> Prog to a Prog's Rescue One day a couple of my friends were sitting on the river bank when they heard the dry of a frog in die trees. Following the direction from which the sound came, they discorered a make in the act of swallowfar a frog. Just them another frog. evidently attracted by the distressing cries of its mate in seopardy, hopped up to the scape of action. For a moment it sat blinking at the an emy; then leaved forward, select the the river. The water guickly poured hetween the make's distended jams and it was of source compelled to release its victim in order to escape drowning. This it promptly did, and the liberated frog swam away with its, plucky mate, while the baffled space wriggled as best it could to the ahore.

Thank an Empress For Silk Bilk was first made by 8 Line wife of Hoang-Ti, Emperor of Chica. B.C 2600. Among the Greeks, Aris totle (B.C. \$84-\$22) is the first who mentions it. It was not until A.D. 150, however, that it began to be cultivated in Europe; the first eggs be lest ing then brought from India by some monks.

Trouble For Nothing To smuggle a human skeleton into after such tests," said Richard gravely; "but," he added with a smile, "in future no more ambiguations, "in future no more ambiguations, and that there is no more ambiguations on the state of the stat

Reconcer to mid to see care of trides, and of these ther?

AR Official of this inpartment. CALLER ACCOUNT OF The SPECIAL. No love them 130,000 is seved at guesty by the Government wages per banket," he said. "It was not so

through kicking and struggling it long ago that the waste paper of it was tangled in the harness from bri-die to breeching.

Government office was an unrecognated to breeching. owd.

Twenty or more men got busy and systematically misspercialed. He VOLY HADIOGRAM COMMON THREE

"A visit to the walls paper depart. ment would forelply illustrate to you the enormous amount of corresponds ence and clarical work with which the various Government offices have

"To the department—it is really large warehouse-comes 2,000 tons of Marte Dabes, start Aser, the average eted office, with privileges attached day's receipts varying from ten to twenty tone. How wast in this amount will be better realised from the fact that if a single week's wante paper from the Government offices was thrown into Washington Square it would come pretty near burying the Washington Monument. Your as the present quantity is, it is sleedly increasing at the rate of about twenty

tone every year. "The paper facelyed is of the men miscellansons character, consisting of like. On receipt it is at once banded arately in large sacks. The sacks are then shipped to the pulp milt. Comfidential documents receive careful and affectual treatment. They are thoroughly alloed up by a cutting man chine. When papers of an expense ly secret character are dealt with the mildle section of each pile is taken put and placed in a meparate receptable then placed in a souled muck, and and pulp under his er

Educational Limitations which is bound up also in the greatest

It is now known that every brain has a limit beyond which it cannot be educated was was applicable to The use of concrete masonry prob- types of men at to types of dogs. Casiably begins with the Romans, who dran, naturally, drop out of select as certain grades, and those suho are comfoundation work. Coming down from tinued beyond their proper itself are the time of the Romans, the ancient mercly injured thereby. Many apples. ris), and that any soucheston :

Both Create Code () Line Code () Code protent school system to train man equality Yet I is time to map a think a little.

Brotz Autries des papels de la Targer cities are much occupantly of the backenings (chico) to dilliper and publish dreadenings (chico) to dilliper and publish dreadening taken or to discover the chico of the chico occupant of the chico occupant of the chico occupant o timers who work ball or user & really progress faster than those wings to to school all day, Have we not be

Bricklayer Belleva ( L prive) isy the top brick at the north of a building. Souls of them inel trune by doin reed a sec

set nature too quickly in sur so

apol-American Medicine.

A bricklever often briske at the hollow of a wall a flore shoe a cent tied to it. This he does good luck. To lay the Smi and last be any building but a church brings to luck to the brickinger.

Churches are the Inches juilds to work on Thesters us the

John Hours Madder the mer whose devorite study w