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Earth Is Prey To Many Forces

Sun, Moon and Planets Twist and Turn It—While Poles Stay

New Yorkers often point with pride to the tall buildings on the lower half of Manhattan Island, possible only, they say, because their foundations are laid in solid rock, in the bedrock of the immovable earth's crust. "Yet ask a geologist," says W. J. Luyten in the N.Y. Times, "and learn how much remains of this idea of solidity and immobility of the earth!"

"New and uncanny tremors," he declares, "are the latest addition to the vagaries of Mother Earth, forming another link in the endless chain of motions that agitate our planet. They have engaged the minds of scientists for some time past, these mysterious and continuous oscillations that have now come to the fore again with unheard-of activity."

The rotation on an axis, which gives us day and night, and the revolution around the sun that forms the year are the most important ones. In addition, the earth participates in the sun's motion through space at a speed of eighteen miles per second toward the constellation Lyra, as well as in the sun's revolving around the centre of the Milky Way with a speed of 180 miles per second. But that is not all; the axis of the earth is made to gyrate, "nod" and to move to and fro in a variety of ways. The orbit of the earth around the sun is turned around, lifted up, twisted and pulled out of shape—all under the friendly forces of the sun, moon and planets.

Apart from these outside influences, the earth as a body is far from tranquil as yet. The Poles are wandering around in a seemingly erratic fashion, never straying very far from their appointed places. But here again the actual motion is very complicated, as the Poles appear to be doing two things at a time—following a rather narrow ellipse thirty feet in a year's time, and a circle, twenty-six feet in diameter, in fourteen months; the one as a result of the seasons with their periodic forming and melting of ice and snow, the other because the axis of rotation does not lie exactly where it should in symmetry with the shape of the earth.

Variations in Rotation

A second fluctuation is in the speed with which the earth rotates on its axis, as it sometimes may be as much as twenty seconds ahead or behind time, as found from observations of the sun and moon. It has been explained as due to a kind of "breathing" of the earth, an expanding and contracting, which may change the diameter, but never more than two feet (on a total of 8,000 miles). Apart from this irregular change in rotation, there is a regular one as well, very small, making each day longer than the preceding one by about one-fourth of a second for a millionth of a second, due to the friction caused by the tides. Among the major motions on the surface of the earth is the drifting of the continents which some geologists still believe to be going on—America sliding westward, Europe and Asia eastward, thus slowly widening the gulf between them. And in themselves, these continental masses are still far from the finished product, far from perfectly made. They show many "faults"—the dreaded faultlines where earthquakes occur when ever the hot layers underneath are working off their surplus energy.

The Rumbling Interior

How and why is still a mystery, for definite knowledge of the earth is only skin deep; the solid crust is only forty miles thick, while the whole diameter of the earth is close to 8,000 miles. Moreover, the continents, resting on the same layer of rocks, only thinner, of which the ocean floor is formed, are more or less buoyed up by the substratum, which is often described as glass at a high temperature, and in which left to themselves the heavier rocks would undoubtedly founder and sink. This, then, keeps the land masses of the earth more or less on tenterhooks, always facing the possibility of a disaster whenever the hot interior vents its protests against being shut in; and no small measures those are. In the California earthquake it was estimated that enough power was developed to equal that of 1,000,000,000 coast-defense guns.

It is in this interior that we must look for the deep-seated cause of all the changes on the earth's surface, for the secret of the earthquakes. As Professor Daly puts it: the crust is old and withered, scarred like an old warrior who has been through many battles; but its character is unalterable—that was molded in its infancy, when the surface of the earth was young and plastic, as the interior still is.

League Backs Study of Calendar Reform

General—Calendar reform, which is being studied by committees in almost every country, will come before an international conference here next Oct. 26.

A League of Nations committee on communications and transport will designate a group of twelve, it was announced, to codify reports of the national committees and summarize their conclusions for submission to the various governments before the conference opens.

The transit committee of the League expressed the belief in a report to the Council that all questions of a religious nature raised by calendar reform must be left to the religious authorities concerned. It was suggested that the conference merely express the opinion of participating governments on the social and economic phases of the thirteen-month year, but the committee recommended that religious bodies be invited to send observers.

"We can only be hopeful and hope for the best,"—John D. Rockefeller.

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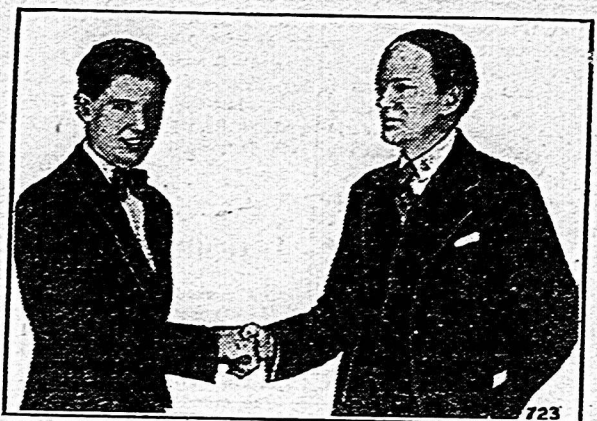
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Clever Apprentice



Frank Coward, bright young Canadian Pacific Weston (Winnipeg) shops apprentice, aggregated 92.6 per cent. over a period of three years annual examinations—the highest average ever made since the inauguration of the competitions in 1922. He is shown being congratulated on his remarkable record by D. C. Coleman, vice-president, Canadian Pacific Railway western lines.

Where Our Names Came From

In the year 1287, Ladislas, King of Poland and Duke of Lithuania, called his subjects together and announced that for the good of the nation they were all to be baptized. This was a rather elaborate undertaking and might have perplexed most monarchs, but Ladislas had carefully laid his plans. So separated the men and the women into two camps, and these in turn were divided into two more. The men of the first group received the name of Peter, those of the second Paul; likewise, the ladies were designated either Catherine or Margaret, according to where they happened to be standing.

Up to five or six centuries ago, this matter of names was a perplexing problem; judged by modern standards, the King of Poland's program seems rather impractical. But at least he was trying to establish some definite system of nomenclature. The fact that he specified no surnames for his subjects was not an oversight, for at that period surnames were not a popular commodity. Our ancestors seem to have managed to get along without them; and it was not until the fifteenth century that surnames came into general use in western Europe and the British Isles. In the course of years, the population increased, commerce was developing rapidly, and in every respect the business of living was continually growing more complex; and presently there came a time when a surname to distinguish an individual from his fellows became an absolute necessity.

Surnames developed naturally, and they sprang from innumerable sources. Many are easily traceable, but there are others whose beginnings are largely conjectural. The origin of names covers a vast field, and within certain limits the layman's guess as to the why and the whereof of English surnames is as good as the learned doctor's.

As an example of how some of the commonest names have more curious origins than might appear, take the case of Green. The natural inference is that Green, in its earliest beginnings, was somehow associated with color.

The original Mr. Green, however, came to his name in an entirely different manner. In medieval England, "The Green Man" was a favorite title for an inn or tavern. A certain Edward, let us say for example, was the proprietor of such an establishment; to distinguish him from other Edwards in the neighborhood he was referred to as Edward The Green Man. This was too much of a mouthful, and eventually it was contracted to Edward Green.

In his account of London during the reign of Charles II, Macaulay wrote: "The houses were not numbered. There would, indeed, have been little advantage in numbering them, for of the coachmen, chairmen, porters and errand boys of London, a very small proportion could read. It was necessary to make marks which even the most ignorant could understand. The shops were therefore distinguished by painted signs: which gave a gay and grotesque aspect to the streets."

These medieval signboards were the source of many present-day surnames, and, as in the instance of Green, other tavern keepers derived their titles from those of their establishments. Thus "The Wild Man" gave rise to Wilde, or Savage. Similarly "The Lamb and the Flag," "The King's Head," and many others gave rise to Lamb, Flag, King, and so forth.

Industries and occupations were of course responsible for a multitude of surnames. Before the introduction of the roller, the manufacture of cloth depended upon its being trodden by human feet into the proper consistency. Those engaged in this work were the first to bear the name of Walker. The glove-maker's shop was marked by a hand above its door; James or George or Robert Hand naturally followed, as being somewhat simpler than James or George or Robert the glove maker. The progenitor of the Fletchers fetched arrows for his living, and the original Mr. Pepper apparently obtained his name, not on account of a stormy disposition, but because he was in the spice business. At some remote period, a lady brewer master appeared on the scene and founded the family of Brewster; the Walnights own their title to a wagon maker, and the most ancient of the Parkers had charge of the inclosed areas of his lord's domain and was so designated.

The origin of surnames, however, does not always follow such clearly defined courses, and frequently the search for the beginning of a very common name leads into controversial territory. The name Turtle, for example, although a comparatively infrequent surname, derives its meaning not from the animal in question, but from the

Owl Laffs

Lots of models can't be as bad as they're painted.
 Speaking of endurance flights, a man has been up 48 hours—the baby has the colic.

Springtime
 Springtime and the green thereof,
 And the rose;
 Springtime and the lure thereof,
 That each one knows,
 And a certain girl grown lovely
 And winsome quite—
 And the armored heart within my
 breast
 Feels sudden fright.

Springtime and the green thereof,
 What do you mean?
 Springtime and the lure thereof,
 Neighbor, come clean!
 Has a certain house grown dingy
 With winter's grime?
 And do you dread with sudden fright
 Housecleaning time?

A tramp came to the front door of a house in the country, asking for a piece of cake.
 The Woman—"We have no cake, but we can have bread, butter and coffee."
 The Tramp—"Nope, this is my birthday and I must have cake."

Lessons Worth Learning
 Learn to laugh. A good laugh is better than medicine.
 Learn to attend strictly to your own business.
 Learn to tell a story. A well-told story is as welcome as a subliminal in a sickroom.

Learn to avoid all ill-natured remarks and everything likely to create friction.
 Learn the art of saying kind and encouraging things.
 Learn to keep your troubles to yourself. The world is too busy to care for your ill's and sorrows.
 Learn to stop grumbling. If you cannot see any good in the world, keep the bad to yourself.

Learn to hide your aches and pains under a pleasant smile. No one cares whether you have the earache, headache or rheumatism.
 Learn to greet your friends with a smile. They carry too many frowns in their own hearts to be bothered with any of yours.

Man's Goodby—"And how long were you a prisoner?"
 Tramp—"Five years."
 Man's Goodby—"But the war didn't last five years."
 Tramp—"Who's talking about the war?"

There are birds still so dumb they think mistletoe is a foot disease.
 An angler who had been trying to hook something for the past six hours was sitting gloomily at his task, when a mother and her small son came along.

The Youngster—"Oh! Do let me see you catch a fish."
 His mother (addressing the angler)—"No, don't you catch a fish for him until he says 'please!'"
 Man's Work Is Never Done
 Man's day: are arduous and full of toil.

In December, January and February he has snow to shovel, furnaces to attend and ashes to carry out.
 In March, April and May he has gardens to hoe, seeds to plant, screens to put up and carpets to beat.
 In June, July and August he has grass to mow.

In September, October and November he has leaves to rake, and again carpets to beat.
 There is no peace for the lazy.

Suburbanite (reading from seed catalogue)—"This magnificent plant from a single seed bursts into an avalanche of glorious bloom in June, giving the garden the splendor of a billowy surf-crest of miles of great rolling snowdrift, embazoned by the setting sun!"
 Wife—"Oh, Henry, let's buy 5 cents worth of that!"

The teacher was giving a lesson on the Creation. John interrupted with the remark: "My father says we are descended from apes." Teacher: "Your private family affairs have no interest for the class."

Father—"Well, Tommy, how do you think you will like this fellow for a brother?" Tommy (inspecting the new infant somewhat doubtfully)—"Have you got to keep him, dad, or is he only a sample?"

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Ordinary Heavy	No. 1, Med.	1.00-.75
Ordinary	No. 1, Med.	.75-.50
Winter	No. 1, Med.	.50-.40
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Parents' Example Influence Child

Happy Home Atmosphere Vital Factor in Bringing Up Children

London—Modern psychology has shown that the attitude of any man towards the problems of life and the degree of courage with which he meets those problems depend almost entirely on the conditions under which he has spent his earliest years, writes "A Mother" in Daily Express. He learns from his mother his first social lessons; from his father the lessons of work and livelihood, and from both parents together his attitude towards sex.

He begins to learn in his cradle. The baby who hears constant quarrelling between his parents is bound to develop some disability which does not diminish, but rather increases, with age.

Standard of Conduct
 The least disability he will acquire will be a quarrelsome, nagging disposition. Some children become subject to permanent nervous disorders as a direct consequence of living in the presence of threats and bad tempers.

Such a child will be out at elbows with some one all his life; his brothers and sisters, his playfellows, his co-workers, his wife, his own children. So the evil goes on, for ever increasing its sphere of influence and harmfulness.

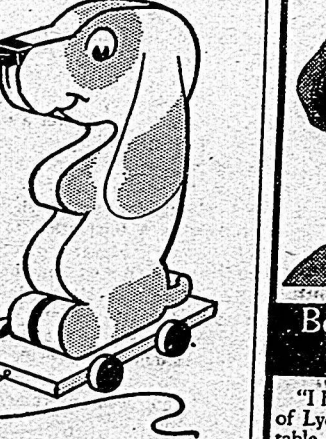
The importance of the behavior of parents towards one another and towards their children cannot be over-emphasized. The home is the first unit of society with which the child comes in contact, and it is there that he learns irradicable habits of behavior.

If he is set an example of dignity, courage, and good manners he will take that example as his own standard of behavior. If, on the other hand he meets with intolerance, shrieking and squabbling, these things will be the foundation on which the conduct of his life will be built.

Prison Chaplain—"Why are you here again, Perkins?" Convict—"Because of my belief, sir." "Your belief? What do you mean?" "I believed the policeman had gone by, sir."

The manager had dismissed the office-boy for untidiness and general slackness and was interviewing in turn a waiting line of a dozen applicants for the position. Presently there was ushered in a very diminutive youth with an alert manner. "Now, my boy," said the manager, impressively, "I want a boy who is smart and tidy—he must look round the office and note little things that have to be done. I am tired of boys who never see anything that requires doing, and I am determined to have a boy with some idea of keeping things as they should be kept. Do you understand me?" "Yes, sir, certainly, sir," said the boy. "Shall I put your tie straight, sir?"

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Baxter—"I can't stand this money-money-money business much longer. The next time you mention money I'll leave you." Mrs. Baxter—"How much, dear?"

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This letter is not one person's opinion; it is the unanimous vote of the sisters of a large convent. "We are a large community (15 in number) and find no medicine to equal Kruschen Salts. Many of the sisters are troubled with Rheumatism, which necessitates taking more than the daily dose. . . . We cannot speak too highly of Kruschen Salts, and the benefit we derive from them."—Sister M.L.

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