

Transporting the 100-Inch Mirror From Pasadena to Mt. Wilson,

Man takes many trips on the face of the globe; it might be well for him to soar beyond the clouds to observe time table and routes of the spheres and note the relation of his earth to the celestial scheme of things.

When a mighty storm sweeps over the ocean, when a great war devastates a continent, when a Katmai blows off her head, when an earthquake destroys a populous city, men stand overwhelmed and awed at the spectacle

But how little and insignificant are such forces, measured by the majestic might of the earth as it sweeps on Its course around the sun!

An eminent phsycist has estimated that the power developed by a million Niagaras in a million years would not equal the energy expended by the earth in a single second as it circles round the sun.

And yet so perfect is the mechanism that, flying around its axis at an equatorial speed of more than 1,000 miles an hour, and around its orbit at more than 1,100 miles a min-/ ute, all the mundane influences of which astronomers know could not change the length of its day as much as a second in 100,000 years.

But as soon as one looks out into space with the eye of the astronomer, there comes the discovery that in all Its seeming greatness the earth is so small that even a telescope 10,000 times as powerful as the strongest instrument now in existence would not reveal it to an astronomer on any

Compared with the sun, our planet's insignificance becomes evident. More than 1.300,000 spheres like ours would be needed to make a bulk equal to that of a single sun

Herschel's Picture of Solar System. Perhaps our most graphic picture of the solar system is given by Herschel. Imagine a circular field two and a half miles in diameter; place a library center, 82 feet away put a mustard The globe will represent the sun and the mustard seed Mercury.

At a distance of 142 feet place a pea, and another at 215 feet. These will represent Venus and the earth, tain, however, that they are at least both as to size and distance. A rather large pinhead at a distance of 427 feet will speak for Mars, and a fair-sized tangerine a quarter of a mile distant will stand for Jupiter. A quest of Jericho. small lemon at two-fifths of a mile will play the role of Saturn, a large cherry tree three-fourths of a mile will answer for Uranus, and a fair-sized plum at the very edge of the field will proclaim Neptune.

Whether studied as the head of the planetary family to which the earth belongs or whether as an average member of the great household of suns that dwell in the distant skies, Old times greater than that of our sun, Sol has many thrills for the student.

To the inhabitants of the earth the fact that he shines is the most important physical consideration in life. From him we derive warmth, light and power; without him the oceans and even the air itself would freeze: and, of course, under such conditions, life would be impossible.

While the stars appear to us about as much like the sun as the fireflies summer night, yet the patient investigations of astronomers show not only that the sun is a star, but that It is by no means either the largest or brightest of the celestial family. Assured that it is a star and knowing that the next nearest one is 300,000 times as far away, astronomers addressed themselves to the task of learning about the other stars by studying our own. They found that there a. some like it, giving out the same kind of light, though most of them send us, through the spectrum, messages that tell quite different

All In a Vast Migration. When we consider the solar system with its great sun, its eight planets and their 27 moons, and its 800 asterids—as occupying an area whose di-meter is nearly 6,000,000,000 miles ne 6,000,000 times as far as from New York to Chicago), it is amazing to think that there may be millions of her solar systems as large or larger han our own, comparatively close to us as star distances go, though so re-mote that their planets could not be don't you think he has good cause to

(Prepared by the National Geographic So- even with telescopes as much more ciety, Washington, D. C.) powerful than the biggest ones now in use as the latter are stronger than the naked eye!

So careful an astronomer as Agnes M. Clarke tells us that a skiff in vast, unfurrowed ocean could not be more utterly alone than is our solar system in its little corner of the uni-

erse. She continues: "Yet the sun is no isolated body. To each individual of the unnumbered stars strewing the firmament, down to the faintest speck of light, . . .

stands in some kind of relationship." Spectroscopic studies and sky observation alike tell us that our sun and his family are all headed in a great migration across the sky toward a point between the constellations of Hercules and Lyra.

The speed with which we are traveling in that direction is 12 miles a second. The velocity of an artillery shell is around 3,000 feet a second; that of the sun is 63,000 feet. An artillery shell with the velocity of the solar system through space would, according to Kippax, penetrate a sheet of steel four city blocks thick

Is our great family journey through space along a straight road, or is it revolving around some greater body, even as the earth revolves around the sun and the moon around the earth? The astronomer tells us frankly that if the sun has an orbit its curve as yet defies detection. Star Cluster in Hercules.

A faint idea of the stupendous num-

her of stars that dot the sky and the staggering distance that separate them from our earth may be obtained from a fuzzy little speck of light in the constellation of Hercules. It is visible to the unaided eye only on the clearest nights; but train a high-powered telescope on it and you will see one of the finest star clusters in all the

Ritchey's photograph of this cluster, taken with the big 60-inch Mount Wilson reflector, discloses that it is made up of more than 50,000 stars, very many of them as big and as bright as our own sun. How far away they are cannot be said, for they are too remote for measurement with the finest instruments yet devised. It is cerso distant that the light coming to the earth from them this year may have started on its hurtling journey through space about the time of Joshua's con-A glance to another spot in the

firmament will afford a weak suggestion of the tremendous age of the universe. The central star of the sword of Orion appears to the naked eve as merely a dim little fellow that might be passed without a thought. But a telescope discloses it as the most magnificent nebula in the heavens. Its diameter is thought to be 20,000,000

When the sweet singer of Israel sang that "the heavens declare the glory of God and the firmament sheweth His Handlwork," he had never seen more than 5,000 stars. With the latest Mount Wilson reflector 300,000,-000 write themselves upon the photographic plate.

Settling His Doubts. A Boston man of discriminating

taste, dining at his favorite eating place, ordered fricassee chicken, took one look at it and called the walter: "When does a chicken become a fowl here?"

The obliging waiter scowled hard before finding his answer: "When it is a rooster, sah . . . it's a matter

But the patron did not seem convinced, and the steward was sumnoned. Again the polite inquiry: "When does a chicken become a fowl,

"Never, sir, in this restaurant!" came back the steward; and the guest went pleasantly on with his meal.-Pittsburgh Sun.

Did Look Bad.

"Oh, yes, we are engaged to be man ried next spring; but I fear she has not that utter confidence in me that comes with perfect love."

"Well, when a fellow looks back and sees her testing the diamond in her ote that their planets could not be don't you think he has good cause to be the astronomers of the earth, feel a bit dubious?"

ARMENIA NEEDS FOOD

Supply Is Exhausted, American Relief Workers Report.

Bread is Made From all Sorts of Substances-Break-up of Winter Reveals Terrible Conditions-Seed Grain Needed.

New York .- A cablegram received by Charles V. Vickrey, general secretary of Near East Relief, dated Alexandropol, tells of how investigation by American relief workers has revealed terrible starvation among refugees and orphans with the break-up of winter in the mountain villages of central Ar-

Foodstuffs throughout the area are exhausted, the cable says, and continues: "Bread is made from all sorts of substitutes, including flax, chaff and sawdust, having no appreciable food value. The people are extracting undigested materials from old refuse and giving it to the children. Health conditions are critical. Gastric and intestinal troubles prevail, due to malnutrition. A large per cent of the people are suffering from skin diseases. One-fourth of the adults are incapacitated and bedridden.

"In the villages visited there are 1,500 orphans who should be removed immediately if they are to live. Even in small villages the weekly death list includes ten children. In many villages all children have lost their hair during the winter. Several cases were so desperate that the people resorted to eating human flesh, which practice was sharply punished by the authorities. Officials said they are doing all they can to prevent it, but the people lose their senses from hunger. At Mahmaudchuk a family of fifteen persons was visited a month ago. Now only three of the family remain. The dead include all the male members of the family. Great anxiety is expressed about securing seed and grain for spring planting. The head man of the largest village said: 'If we can secure seed we shall be on our feet by midsummer. If we don't get seed we are doomed to death."

Near East Relief has sixty American relief administrators, doctors and nurses in this area. During the winter, however, their supplies and resources have been so reduced that they have been able to do little more than care for the large number of orphans already accepted in institutions, a single orphanage numbering 18,000 children. Secretary Vickrey declares that not only the lives of the orphaned children this spring, but the food supply for the entire population next winter depends on the prompt dispatch within the next few weeks of grain for food and seed from the United States.

LAUGHING LION CUB



This youngster is laughing with and at you. So far as known it is the first time a photo has ever been made of a lion cub in the act of laughing. Nature students who have seen the photo say that the cub is not laughing but is prepared to go to sleep and is yawning. The owner of the cub is Mrs. H. E. Cole of San Francisco.

STRADIVARIUS BRINGS \$9,000

Maker Received 80 Francs for It When He Made It in 1735.

Paris .- A Stradivarius violin, for which the maker, Antonius Stradivarius, received 80 francs when he made it at Cremona in 1735, has just been sold here for 103,400 francs, including the war tax. This is equivaabout \$9,000.

The violin was for a long time the property of the late Charles Lamouroux, founder and conductor of the famous Lamoureux orchestra.

The recent tests, which seemed to establish that modern-made violins can not be distinguished from ancient ones by their tone, do not seem to have affected the price of ancient instruments, if this sale is any criterion.

Sent Him a Mule's Head. Independence, Mo.-On his hunting trip Frank Brown got an elk and ordered the head mounted. He was expecting it one day recently, and when a big box arrived by express he procured a hatchet, nail puller and derrick and hastened to open it up. The boys gathered around to watch, and when the box was carefully opened the excelsior and straw removed, there was the head of a grinning mule with dead jimpson weeds for branching ant-Those who saw it pronounced it very fine head of its kind, and the loke was complete when the big express bill was presented.

"GYPSIES" ON THE INCREASE SHORT SHAFTS

Nomadic Life Seems to Be Becomin More and More Attractive Here in America.

One need not think that the gypsy is disappearing in America. On the con trary, if the nomadic life is the essential of the gypsy, the number of people living such a life is increasing daily. One meets on the high roads from New York to the Pacific coas freshly formed caravans of recently arrived immigrants of all nationalitie taking to the road.

I have met whole families of Jewish peddlers living the gypsy life as they traveled and sold their wares, writes Konrad Bernovici in the Century. 1 have met several ambulant Italian barbers and their families traveling from village to village, plying their trade as they went along, a number of tinkers, welders, coppersmiths and a good many for whom the eighteenth amendment has opened the purses of villagers and farmers.

While in Ohio recently I found one morning a camp of negroes who traveled in a big motor lorry. The men were dancing cakewalks on the street corners for the amusement of villagers and for pay, and the women were attempting to tell fortunes and sell baskets and amulets. When I questioned Sambo, telling him that 1 had never before seen negroes camp for the grocer. outdoors in that fashion, he answered with pride: "We isn't colored people any more-we is gypsies."

It has been made plain, I think, that the term "gypsy" as now applied should be understood not wholly as a racial name but as a term meaning a people living a nomadic life in caravans. In whatever land the gypsy has appeared he has proved a magnet, drawing out the latent nomadic instinct of certain native folk, who have either followed after him or aped his wandering habits.

This nongypsy element justifies "gypsy" as a covering term for all who turn nomads to satisfy the eternal wanderlust. It is contrary to fact to than a boy is a man. believe that we are less nomadic than our prehistoric ancestors. As a matter of fact, most of human ingenuity and invention was and is applied to make travel easier, more comfortable and more rapid.

Whether we use caravan wagons, motors cars, trains or flying machines and whether we give different excuses for these travels, at bottom the real reason is the same nomadic instinct that drives the gypsy from place to

Finally Got Their Man.

The old adage that the royal Canadian mounted police always get their man is true in the case of Sergt. M. M. Stevens, who arrived recently at San Francisco with Chow Shimookski, taken into custody at Mexico City, after a chase lasting five and one-half months and covering 100,000 miles. Shimookski, charged with a double murder at Prince Rupert, British Columbia, was taken north by another Canadian officer. The chase for the fugitive led across Canada, then through the Atlantic coast states from Maine to Florida, and thence to New Orleans and into Mexico, according to Sergeant Stevens.

Small Gardens.

Eight hundred gardeners, members of one garden club in Washington, an average of nearly \$75 each from vegetables grown on onetenth of an acre during the season of 1921. Some of these gardeners supplied all the vegetables for families of 10 and 12 people from their small gardens. Many of them canned and stored quantities of vegetables for winter use. These gardeners not only produced food, but secured valuable exercise. These clubs followed methods recommended by the United States Department of Agriculture.

Qualified Committee. At the Legion post meeting in New Jersey, one comrade was reported to he sick and a motion was carried that a committee of three "be appointed because a salad is something you don't to visit Comrade Jones, sympathize with him and try to cheer him up."

Then it was reported that another comrade had been married since the last meeting, and the commander suggested that the post take suitable ac-

"Send the same committee to see him," suggested a voice.

Mixed Drinks.

He had made several vain attempts to swallow the mixture; but, somehow or other, he could not get it down. When at last he did manage to catch lent at current rates of exchange to the waitress' eye he called to her and

"There's something funny about this coffee. It tastes like cocoa. The waitress sipped it, made a

face, and sipped it again, to make sure. "I'm sorry." she said. "I've given you tea."-Tit-Bits.

Hospitable Soul.

"That's the third time this week the kitchen roof of this boarding house has caught fire," grumbled the chief. "What are you going to do shout it?" asked a bystander.

"What can we do about it? The landlady had coffee and sandwiches ready when we arrived."-Birmingham Age-Herald.

The Literary Bug. "Mow, girlie, I'll put you among the books, department of classics." "But I been selling lipsticks and rouge. I don't know nothing about

"You don't need to know nothing. see that absent-minded gents don't walk off without their change."-

Idle talk won't put men to work. The Kiel canal is 61 miles long. The sip in gossip is the sip of tea True saving lies in wise spending. One's temper improves with disuse

Beauty may also be lipstick deep. Audacity is the stepfather of suc-

Why isn't a wealthy actor a fixed A pawned opportunity seldom is re-

Cloves often savor of the spice of

A man should know the company

Don't fail to ask for advice if you As a man grows older he swaps his

ideals for ideas. Honesty is always the best policy

with their hands. The roll-top desk often covers a mul-

Too many people don't want to work

titude of disorder. Some men would be other than hypocrites if they could.

Wise parents aren't above apologizing to their children.

Men often make bad breaks just before they go broke.

The only thing that acts more boyish

Look out for propositions that will ot bear looking into.

Beware of the man who is forever harping on his honesty. If some people didn't marry in haste

they would stay single. When suspicion enters the door love

do is to hide his meanness.

oes out of the window. To be a gentleman all a man has to

Don't think for a minute that man cants but little here below.

Riches have wings. Poverty crawls ander the door and abides.

who finds everything a bore. There is one compensation for the man up a tree-he lives high.

Life's immitigable bore is the man

Says Sam: Spite is sand in the community carburetor. Corget it!

Better one boy in the schoolroom than a dozen in the poolroom.

Wireless telegrams come under the head of disconnected sentences.

What we wish is the shadow; what will is the substance, maybe,

Few men ever wear their trousers out at the knees praying for work. Many a man is prematurely gray beause of his wife's auburn tresses.

Don ! worry about your looks. You will always look good to your friends. Laugh and the world laughs with

you, even when you are laughing at Salads remain perennially popular

Feel a smile and the right kind

of smile will show up; but drat the artificial ones. Now and then you hear of an ideal husband-but, honest, now, did you

ever see one? After we have regulated the rainfall, we might pay more attention to

regulating humanity. Don't be afraid to ask questions. That's the only way you can find out good many things.

One consideration that checks weakkneed revolutions is that people have to die in revolutions.

Ignorance is bliss-generally-when there is something suspicious the matter with one's insides.

utter optimist can provoke as many yawns as an utter pessimist. The person who does his own task,

It remains unhappily true that an

dom has time to criticise others. Aunt Ada's Axioms: Order means peace for the home, sanity for the mind, and security for the state.

whatever it is, bravely and well, sel-

There is such a thing as being too unselfish, but very few of us are in danger of falling into the excess.

There seems to be no place like nome for the charity that begins there, as it seldom gets any further.

CARE RUINS FISHES' 'MORALE' Protected Salmon Grow Too Tame, Canadian Parliament Is Told by Expert.

Ottawa, Ont.-Government fish hatcheries have ruined the "morale" of the salmon of British Columbia, according to the story told to the house of commons by A. W. Nelll. It seems that when the salmon come into the world at the fish hatcheries they are guarded against all enemies and Mr. Neill says they lose their protective instinct. So, when the salmon has come of age and is sent out in the cold world he is as "tame as a cat," to quote Mr. Neill, and when he meets an enemy he "stands with his mouth open and accepts murder as if such a thing were foreordained."

H------Celebrate 100 Years of Wedded Life.

Poplar Bluff, Mo.-A. G. McKenzie, who has passed the fourscore milepost in the journey of life has reported that his father, one hundred and twentytwo, and his mother, one hundred and nineteen years old. celebrated their 100th wedding anniversary in Scotland a short time ago. McKenzie sald he was the youngest son of seven in the family and that all of his brothers are alive.

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