

THE EARTH'S MOTIONS

How We Are Whirling Around and Through Space.

THE INFLUENCE OF THE SUN.

Without Its Attraction That Draws the World Toward It in an Elliptical Course Our Globe Would Wander on Forever in a Straight Line.

There are those who think much of moving from one point to another of the earth—travel they call it—and yet pay little heed to the wonderful journey of the earth itself. Many, again, go to seek a climate while the hurrying earth is bringing to them one climate after another in endless succession. Those who have not hitherto taken much notice of the earth's progress—who have not, so to speak, looked out of their carriage window as they are whirled along—might find a new interest in doing so. Look, for example, at the apparent size of the sun. Casual observation shows that it appears larger in the winter heavens. And exact measurements tell us that it is largest on Jan. 1 and smallest on July 2. The size of the sun thus marks the earth's nearest approach and greatest distance from the sun. Accurate astronomical measurement of the sun's diameter might even determine the day of the year, for the daily variation in the apparent size of the sun is some nine-fiftieths of a second of angular measurement. And astronomers profess to measure the second decimal of seconds.

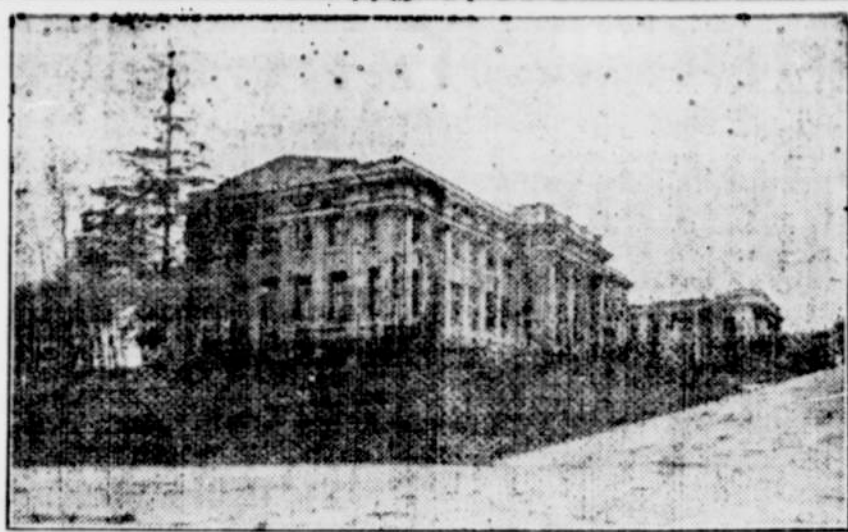
There are three ways in which we are journeying with the earth. There is, first, the daily revolution, which carries us through a complete circle in twenty-four hours at a rate varying from rather more than a thousand miles an hour at the equator to nothing at the poles, where no one, by the way, has ever been. Then we are traveling around the sun once a year at the rate of eighteen miles a second. Thirdly, we are journeying through stellar space, for one of the most remarkable facts which modern astronomy has brought to light is that our solar system, the sun with all its planets, is on a journey toward the constellation Lyra at the rate of ten miles a second.

As we sit in a train and are whirled along it sometimes appears as if the scenery were flying past us rather than we past it. So the daily revolution of the earth—a thousand miles an hour at the equator—makes the sun rise and set, and our yearly journey makes the sun apparently travel through the constellations of the zodiac. If we move round any stationary object on the earth we see it with a constantly changing background—now a windmill, now a cottage, now a wood, now a church, etc. So as we travel round the sun we see it with an ever changing background of stars—now those of Aries, now of Taurus, now of Gemini, and so on. The position of the sun among the stars marks the stages of the earth's annual journey. And as the earth arrives at different points of its orbit the times of the risings of certain stars vary. These indications of the earth's progress have been taken as marks of the seasons. Thus when Sirius rose with the sun it was known that the dog days had begun. Early astronomers watched carefully for the rising of the dog star. The Egyptian astronomers looked for the helical rising of Sothis to proclaim the new year.

It is the earth's yearly journey round the sun which enables us to determine the distances of the stars. The method is precisely that adopted by surveyors for determining the position of objects on earth. The direction of the object whose distance is to be found is observed from two points a known distance apart. The rest is mere calculation. In the case of the stars the directions are observed from two extreme points in the earth's orbit instead of from the two ends of a base line. The process is called triangulation when applied to earth measurements, and everybody understands what it means. When applied to the stars it is called parallax and remains a mystery to most people. Such is the obscuring power of a word.

The "little more" and the "little less" of Browning are forcibly illustrated in the direction of the earth's journey round the sun. An elliptical course differing very little from a circle, combined with a tilt of the axis, gives us the seasons. But if this difference and tilt did not exist there would be no seasons and one climate would rule the year. If, again, the course were more elliptical, then for the hemisphere whose winter occurred at the earth's greatest distance from the sun there might be a glacial period.

"The straight line," says Miss Helen Keller, "symbolizes duty. It is a dull thought drawn out endlessly." And this seems to be a reflection on what we had thought was the earth's path of duty round the sun, for this path is the curve known as the ellipse. Moreover, the thought makes the sun a tempter of the earth from the strict path of duty, for the earth, we learn from our Newton, if left to itself would wander on forever through space in a straight line. It is the sun which draws it from this dull course into the pleasant curve of subjection. Yet the sun's victory is only partial, the earth's actual path being a combination of its own straight line of inclination and obedience to the pull of the sun. And so instead of the "dull thought drawn out endlessly" we have the beautiful thought of the changing seasons, the flowers and fruits of the earth, with its ever varying weather, sunshine and storm, heat and cold.



THE FINE ARTS PALACE, A-Y-P. EXPOSITION, SEATTLE.

Into the Palace of Fine Arts there has gone as fine a collection of works of art as has ever been shown at a world's fair. It is made up of loan collections from Great Britain, France, Italy, Germany and the Eastern states of America. Also there are valuable specimens of work by the leading modern artists of Japan and China, and many of the more notable works of their ancient artists.

So valuable is the collection that insurance in the sum of \$1,225,000 has been placed upon it with Lloyds.

The building is absolutely fireproof. It is of reinforced concrete and brick and, at the end of the Exposition, it will revert to the University of Washington, by which it will be used as a School of Chemistry.

THE HOME CAUGHT DOLLAR.

When It Becomes the Home Spent Dollar It Helps the Home Place.

In Denver or thereabouts resides a bard who sometimes writes things witty and wise. One of his recent bits, which he heads "Tintinnabulations," probably because it is a bid for the "tin," runs thus:

A man who lived in Denver acquired the frugal habit
Of when he saw a dollar loose he'd quickly try to grab it.
And once he got it in his jeans he'd much desire to spend it,
And he had the cranky notion to Chicago he would send it.
The dollars that he sent away, he found he couldn't catch 'em,
Nor could he do the coaxing that in any way would fetch 'em.
So he up and tried the system of spending cash at home, sir,
And he keeps on catching dollars as on Denver streets he roams, sir.

The grammar and the rhyme may not be the best to be had, but the wit and wisdom are first rate. If every man in the smaller town or city or out on the farm would take to heart the moral of this rhyme and spend at home the dollars he catches at home, there is no shadow of doubt that he and his family and all his family connections and neighbors would profit thereby in the end—and a long time before the end.

The home caught dollar which becomes the home spent dollar instead of the Chicago sent dollar helps just a large round dollar's worth to build up the home community. This fact is as obvious as the nose on a bulldog's face. In fact, it barks at you as you pass along the business streets and see stores and shops that suffer from lack of the trade that is theirs by every right that pertains to the matter of community life.

HOW TO ATTRACT TRADE.

By Having Clean Stores and Getting Rid of Loafers.

It is a general rule that people would rather trade at an attractive place than an unattractive one, at a clean place than a dirty one, at a place where they are treated courteously and made to feel at home rather than one where they are neglected and stared at by loafers. Many children, most women and some men do not feel comfortable in going into a store where a miscellaneous bunch of idlers are collected. Loafers drive away dollars. A merchant may feel it discourteous to ask men of this stamp to stay away, but to allow them to remain is a greater discourtesy to his customers. A store is not a club or a hotel. A tactful business man can rid his place of idlers without giving offense. There are ways of doing these things. This very question of a few loafers that congregated where they are a nuisance is a sore spot in many villages. The way to deal with a thing of that sort is the same way that is necessary to get rid of grumblers and knockers, and that is to move things, get up an optimistic spirit, show that you mean business and make the loafers, the grumblers and knockers ashamed of themselves. Then if they have not the decency to get out of the way, go at them good naturally, but vigorously and without gloves. Go at them because it is right and necessary to do so. Handed in the proper spirit and without ill temper, the whole community will applaud it, and even the loafers, the grumblers and the knockers will themselves have a secret admiration for the chap who has the manhood to tell them the truth.

Make the store tidy and presentable. Clean up, and clean up the loafers along with other things that do not belong.

Planting Rural School Grounds. Country schools usually stand in a good sized lot of from one to several acres. Such an area will allow of extensive planting, and in view of the dearth of trees in our landscapes it is well to provide a grove for school and other purposes. Across the rear of the lot trees may be planted solidly, either in rows or variously disposed. These should be at sufficient distances apart to allow each to develop its individuality and provide natural shade of varying degrees of intensity. It may be that strong winds are constantly blowing from one direction, and if this be

so a protective border plantation should be set out on the windward side. If the grounds are sufficiently large this border plantation should extend around the grounds on all sides, but the planting should not be in rows, but a natural method of grouping be followed, yet enough trees on all sides to provide needed shade in summer. No planting should be done except on the borders. All the open space possible should be preserved in the yard proper.

The Boost Chorus.

If your town is on the bum,
Boost.
When you have it going some,
Keep on boosting.
Tell the world, "This town is it."
The blazed trail of progress hit.
Make it smoke and never quit.
Boost some more.
If you meet the knocking crew,
Still boost.
Show you have no grouch on you.
Continue boosting.
Join the sunshine band and glow;
Join the push brigade and blow;
Join the forward march and grow.
Boost all the time.
Be a booster; keep it up.
Go on boosting.
Gather in the winner's cup.
Boost forever.
Any town, like any man,
Needs the faith to say, "I can."
Needs the will to lead the van.
Boost all together.
JAMES A. EDGERTON

OCEAN TRAVEL.

Luxury That Greets the Passengers on an Atlantic Liner.

The luxury of ocean travel has reached such a state of perfection that land bred and timid passengers may almost decide themselves into thinking that they are still on shore when they are in the middle of the ocean.

When the luncheon gong sounds you go in to tidy your hair. The sun is shining in through your window or at least one of the windows, for there are two in your drawing room, one in the bathroom and one in the bedroom beyond. Your drawing room—which might be in the Winter palace, Nice, for all the resemblance it bears to a ship's cabin—is furnished in old gold and white. A soft carpet of old gold, a sofa piled luxuriantly with cushions, several chairs, a table, a wonderfully equipped desk, on which rests a drop light, are at your disposal. You stop a moment to admire the panels and etchings and the hangings, which are embroidered with drooping wisteria in faint green. An electric grate fire, with a genuine mantle, lends an air of spaciousness to the room. You notice that your gowns have been hung in one closet and your blouses in another and that shoes, slippers, umbrella, etc., have been carefully stowed away in places provided for them.

The third day out, if the weather is fine, is the social height of the trip. The ship's types are by this time all fully developed. The bridge fiends have become known to each other, and they never leave their game except for meals. There is the usual contingent that each morning comes around to tell you how early they were on deck. You have stood at the prow and watched the schools of dolphins jumping straight for the ship, you have rushed excitedly to the rail to watch a passing steamer with which your vessel exchanges salutes by running up innumerable little flags, and you have marveled at the land birds that always follow the ship across, and perhaps you ask the steward to set out some fresh water and a plate of crumbs for them.

If you enjoy spontaneous vaudeville the hour in the ship's gymnasium will be your regular rendezvous every morning, and aside from the fun which you will have in watching the others perform unaccustomed stunts on the frisky camel, the spirited horse or with the vibrators you will receive direct benefit from the exercises, which are the best thing to be recommended for the maintenance of sea legs.—Harriet Quinby in Leslie's Weekly.

Gossip.

A little gossip now and then is related by the best women. While all the others, so it seems, still like it every day in realms.
—Kansas City Times.

Sizing Him Up.

She (in restaurant)—My goodness! Isn't that waiter tall?
He—Yes; I understand he measures six feet three from tip to tip.—Houston Post.

Presbyterian Church

Services will be held at the Presbyterian Church, the first, second and third Sundays of each month at 11 a. m. and 8 p. m. Sunday School and Christian Endeavor at their usual hours. All are welcome. C. O. ROACH, pastor.

Notice.

Notice is hereby given that I will not be responsible for any debts contracted by my wife, Blanch Cook. Dated this 2nd day of June, 1909.
21-4t JOHN COOK.

Fine job work a specialty at the RECORDER office. "Work done while you wait."

Coquille River Transportation Co.'s Schedule

| | Leaves | Arrives |
|-----------|------------|-------------|
| Bandon | | Coquille |
| Coquille, | 6:00 a. m. | 8:30 a. m. |
| | 1:00 p. m. | 3:00 p. m. |
| Dispatch, | 7:30 a. m. | 10:00 a. m. |
| Favorite, | 1:30 p. m. | 4:00 p. m. |
| | Leaves | Arrives |
| Coquille | | Bandon |
| Favorite, | 7:30 a. m. | 10:30 a. m. |
| Coquille, | 3:56 a. m. | 11:30 a. m. |
| | 4:00 p. m. | 5:30 p. m. |
| Dispatch, | 1:00 p. m. | 5:00 p. m. |

The Coquille connects with the trains at Coquille for Marshfield and Myrtle Point.

The up-river passengers can come to Bandon on the Favorite and have three hours here in which to do their trading and other business.

Notice of Street Improvement

Notice is hereby given that the common council of the city of Bandon, at a regular meeting there, has ordered that Fifth street be improved from the new school building east to the present city limits, by sidewalks and grading the same, and unless a written remonstrance against the same be filed with the recorder on or before the 23rd day of June, 1909, signed by two-thirds of the real property owners thereon, then an ordinance may be passed by this council ordering such improvement and assessing the cost thereof upon the adjacent property.

Dated, at Bandon, Oregon, June 3rd, 1909.
C. R. WADE,
21-3t City Recorder.

NOTICE TO CREDITORS

Notice is hereby given that the undersigned has been appointed by the county court of Coos county, Oregon, administrator of the estate of Mary Ann P. Blackberry; all persons having claims against said estate are required to present them properly verified, together with the vouchers therefor, to the undersigned at Bandon, Coos county, Oregon, within six months from the date of this notice.

Dated this 3rd day of June A. D. 1909.
21-3t E. M. BLACKBERRY,
Administrator.

NOTICE FOR PUBLICATION

Department of the Interior,
U. S. Land Office at Roseburg, Ore.
June 4, 1909.
Notice is hereby given that Reinhold P. Henkle, of Bandon, Oregon, who, on May 14, 1906, made Homestead Entry, No. 140665, R. 03984, for s. 1-4 of sw 1-4, sec. 30, e. 1-2 of nw 1-4, sw 1-4 of ne 1-4, section 31, township 29 south, range 14 west, Willamette Meridian, has filed notice of intention to make final commutation proof, to establish claim to the land above described, before G. T. Treadgold, U. S. Commissioner, at Bandon, Oregon, on the 21st day of July, 1909.

Claimant names as witnesses:
John Luke of Bandon, Oregon
John Sullwell of " "
Robert P. Hunt of " "
George Cox of " "
BENJAMIN L. EDDY,
22-6 Register.

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E. T. Kruse, managing agent, 24 California St., San Francisco.

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