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SATURDAYS
AT GALLIE'S HOTEL

THE FARAWAY STARS
 Their Color Serves as an Index to Their Age.
WHAT MAKES THEM TWINKLE?
 Two Theories That Deal With This Astronomical Enigma—The Intervention of Fragments of Disrupted Worlds or the Effect of Air Currents.
 This is a question that has exercised more than one gentleman of science. Of course it is known that only the stars twinkle, the planets giving out a steady light. That is the way we tell a star from a planet with the naked eye.
 But why does the star twinkle at all? The answer to this seems to be on account of the greater distances of the stars, the nearest fixed star being several thousand times farther from us than the farthest planet. So around this as a starting point have been built two theories. One is that as the visual angle, or angle subtended by the star from the eye, is so very small that very small bodies in space coming between the star and the eye would give the effect of twinkling.
 Now, as regards those small bodies actually being in space as hypothesized there is no doubt, for there are millions of fragments of disrupted worlds flying around in orbits about our sun. The only question is whether there are enough to cause the eternal twinkling that is observed. Science cannot say that enough do not exist, for she cannot perceive the existence of the smallest fragments that actually could cause this effect, even with her finest instruments.
 To illustrate, then, my meaning as regards this covering of the visual angle, suppose you take a dime between your thumb and finger and hold it between your eye and the moon until it just covers the moon. It will be found to be quite close to the eye. Now take a quarter and hold it so that it just covers the moon. Its distance is at once seen to be about four times the dime's from the eye. Thus it is seen that the farther outward the object is placed the larger the object necessary. This is in accord with what is known as the law of inverse squares.
 But now take a dime or even a pin head, and no matter how far you hold it from the eye it will easily cover the largest star in the heavens. This is on account of the enormous distance of the star, the lines drawn from its sides to the eye enclosing an angle so minute that almost anything will fill it. So thus we see that this theory is not impossible, though perhaps somewhat improbable.
 The other theory bases its argument on the air currents. Air currents are caused by light and heated air rising and cold and heavy air taking its place. Now, when light goes from a heavy to a light gas, or vice versa, it is bent one way or the other. So this would certainly happen to the light from all the heavenly bodies. The reason it is not noticed in the case of the planets or the sun is that they send us many more rays as compared to the stars.
 Many reasons are put forward to show the truth of this theory. A star twinkles more on the horizon than it does in the zenith, for its light has to come through a greater thickness of atmosphere; also greater twinkling is observed in winter than in summer, and when rapid and brilliant twinkling is seen it is a very good prophecy of rain or snow, as it shows the upper regions of the air to be in a state of rapid motion of varying air currents, hot and cold currents meeting, commingling and rotating probably.
 This also accounts for the changes in the brightness of a star, for at times a part and not all of its light is bent away from the eye. It has been noticed also that a star's color has something to do with its twinkling on account of the different refractivities of the different colors. A white or blue star, such as the Dog star, twinkles most; next comes the yellow and last the red. If one cares to look for a red star, Betelgeux is one and can be found in one corner of the constellation Orion.
 A rather interesting thing has been ascertained in astronomy as regards the relation between the color of a star and its age. The white or blue stars are considered young or in the prime of life, with many more million years to their career, while a red star, as Betelgeux, is on the wane and will gradually go out in the next few million years. See if it doesn't! The yellow stars of course come between the blue and the red in point of age. It is encouraging to find that our own sun is classified as a white star.—A. L. Hodges in Cincinnati Commercial Tribune

Weighing Diamonds and Gold.
 The weight of diamonds and other precious stones is expressed in carats, grains and quarter grains. They are pearl grains, one of which is equal to four-fifths of a troy grain. Four quarter grains make one grain and four grains one carat. The fineness of gold is also expressed in carats. Pure gold is twenty-four carats fine. The carats, therefore, indicate the proportions of alloy. Most of the gold used by jewelers is about fourteen carats fine, having ten parts of alloy.

The Pessimist.
 The pessimist stands beneath the tree of prosperity and grows when the fruit falls on his head.—Success Magazine.
 He is often the wisest man who is not wise at all.—Wordsworth.

Winter's Reading
 The Pacific Monthly of Portland, Oregon, is a beautifully illustrated monthly magazine. If you are interested in dairying, fruit raising, poultry raising, or want to know about irrigated lands, timber lands, or free government land open to a homestead entry. The Pacific Monthly will give you full information. The price is \$1.50 a year.
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 Order by number and send your order accompanied by postal money order for the amount to The Pacific Monthly, Portland Oregon, 36-2

SICK HEADACHE
 This distressing disease results from a disordered condition of the stomach, and can be cured by taking Chamberlain's Stomach and Liver Tablets. Get a free sample at Lowe's drug store and try it.
Only Chance is to Appeal

Washington, D. C., Nov. 15.—The Court of Appeals of the District of Columbia denied the application made by the counsel for Gompers, Mitchell and Morrison, sentenced to jail for contempt, for a stay in the issuance of a mandate of the Supreme Court of the District of Columbia until January 2, 1910. Unless notice of an appeal is given before next Friday night, the mandate will be handed down Saturday.

Larden Gets His Reward
 Salem, Or. Nov. 10—Governor Benson today handed Rev. P. L. Larden the state's warrant for \$1000 the amount of the reward offered by the Governor for the apprehension of George Meyers, who killed Policemen Tom Eckhard and then took to the woods, where he succeeded in eluding capture for more than a week, when he was induced by the retired minister to come to the city and give himself up.
 Rev. Mr. Larden states that he believes the power of prayer is what induced the fugitive to surrender without a fight.

Marriage Brought Harri- man's Riches
 New York, Nov. 11—The Stock Exchange seat of E. H. Harriman, which has been sold for about \$80,000, was purchased by him 40 years ago for \$10,000 and according to his associates, was the basis of vast fortune which he left. Mr. Harriman told a friend it is said, that he had purchased the seat with money which came to him with his marriage, and that from that moment his fortune began to increase.

Notice of Dissolution of Partnership
 Notice is hereby given that the undersigned, Frank Timmons and John Fenoglio, heretofore doing business under the firm and partnership name of the Bandon Fish Market in Bandon, Oregon, have this day dissolved the said partnership by mutual agreement, and all parties are notified that accounts either in favor of or against the said firm are to be settled with the said John Fenoglio who will continue the said business in his own name and interest.
 In witness whereof we have hereunto set our signatures this sixth day of November 1909.
FRANK TIMMONS
JOHN FENOGLIO.

Great Combination Offer
THE RECORDER management has made arrangements with the San Francisco Bulletin whereby we can give subscribers the advantage of a gigantic combination offer that will furnish them all the news of the country in a metropolitan daily and all the news of Bandon and vicinity in the Recorder at a marvelous low price
 The Daily San Francisco Bulletin, \$3.00 per year
 The Bandon Recorder, 1.50 per year
 Total, \$4.50
 Both papers through this office if paid in advance, per year **\$2.75**

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