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WEDNESDAY, JANUARY 30, 1901.

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BUILD UP THE SCHOOLS.

It has been demonstrated that the Pendleton academy is under the right management. The school is a success. It has merit. It is popular and it is deserving. It needs better buildings and better equipment for its work. It can be made a prominent educational institution of Eastern Oregon, with a little effort on the part of its friends and those whose children are pupils at the school.

If the people of Pendleton and the nearby country will interest themselves and give in proportion to their interest and means, a building fund of \$6000 to \$8000 can be created which will be duplicated by persons outside of Umatilla county. But we must show our interest and appreciation before we can hope to have help from others.

If Pendleton people will give \$5000, fully \$3000 will be forthcoming from the rest of the county outside of Pendleton, \$3000 to \$5000 additional from Portland and from \$5000 to \$10,000 from the east, the size of the amounts depending upon the amount of vim and enthusiasm Pendleton takes in helping herself to a good school.

With a fund of \$15,000 to \$20,000 excellent buildings can be provided and both pupils and teachers made comfortable in their work of the school. At present the teachers and children are housed in uncomfortable rooms, with poor ventilation and otherwise handicapped. Considering the present accommodations of the school the work accomplished is quite remarkable and the attendance is creditable to the teachers and the enthusiasm they throw into the work, in spite of the disadvantages. There is not a father or mother, sister or brother who has not a vital interest in this matter and it should be a work of love to help raise a fund for the purposes mentioned.

Such a school is of great advantage to Pendleton as a business proposition. The institution attracts a hundred or more people to live in Pendleton, so their children may attend the school, and these spend not less than from \$5000 to \$10,000 a year here. Then, there is the maintenance of the schools which requires from \$5000 to \$10,000 more annually, which flows into the channels of business and does much to make Pendleton a better place to live in, not to say anything of the higher influences which have their origin in the school and the knowledge it diffuses.

There cannot be a better investment than contributing to the making of the Pendleton academy a stronger and better equipped educational institution. If we will help ourselves in this connection, others, strangers to Pendleton, stand ready to do as much more for us.

LEGISLATORS AND LOBBYISTS.

The members of the legislature are not the only interesting persons to be seen at the state capitol now. They form a very small part of the activities there. While they bear credentials, have their names in large letters on the back of the arm chairs inside the bar, and do the talking while in session, they do not create nor promulgate much of the legislation of the state. They are mouth-pieces for constituents, who dictate, to a large extent, the laws submitted for action.

In the lobby is seen the prime forces behind nearly all legislation. There the power sits enthroned, which yields, for weal or woe, the sceptre of authority. "The people" live in the lobby. They take this vantage ground, and view from it the action of friend and foe. In its variegated host, emblematical of all the forces,

factions, sections, fads, whims, chimeras, characteristics and wishes of the populace, are found specimens from all the laughable, lovable, wondrous veins of humanity. Oregon is only a miniature world. Its features are shadows of the great supreme countenance of mankind.

Its doing are counterparts of the doings of nations and parliaments. And the methods in Salem are only the methods of the world, in miniature.

The picturesque figures in the lobby, are those of old men who were once members of the legislature. They have that same Daniel Webster bearing and appearance, which prevailed half a century ago. The very manner in which they carry that treasured silk hat, and priceless cane, signifies that they are not forgetful of former prominence. They get close up in front, either inside the bar, or near as possible to it, and form a magnificent picture of reserve, dignity, lofty bearing and austere aspect. They listen to, and discuss in whispers the actions and words of young men who occupy seats, once graced by them. It is the shadow of old Oregon, falling upon the opening era of the new. The world is passing by these stationary figures. Its panoramas, ever splendid and stirring, they love to watch. But its pace is so rapid, they get but a glance of its vanishing form. Their mission is done, well done, and their reward the people have bestowed upon them.

ORBITS OF REVOLVING DOUBLE STARS.

Sir William Herschel observed toward the close of the last century that many stars, seen as one body to the unaided eye, were double in the telescope; and his measures of the relative positions of the two objects led him to the important discovery that, in many cases, one of the stars was revolving about the other in an orbit, or, to speak more accurately, that each of the bodies was revolving about their common center of gravity. It was not until the first third of our own century that the orbits of some of these revolving double stars were calculated, and the laws of gravitation that govern their revolutions were performed in obedience to the law of gravitation.

Newton's law of gravitation was thus demonstrated to extend to the stars; it was shown that gravitation was, in fact, universal. The universe was everywhere subject to one fundamental law. This was a great step forward because in Newton's time it had not been proved that gravitation extended further than to the confines of the solar system. Saturn was then the outermost known planet (its distance from the sun is nine and a half times that of the earth). In 1781 Herschel discovered the planet Uranus (nineteen times the distance of the earth), and in 1846 the planet Neptune was found (at a distance thirty times as great as the earth's). Both the new planets obeyed the law of gravitation in their motions round the sun. It was indeed by minute departures of the observed positions of Uranus from its calculated positions that the existence of an exterior planet—Neptune—was suspected, and subsequently verified.

The distance the stars is almost infinitely greater than that of the earth. The nearest of them is some 20,000,000,000 miles from the sun. It was a great step then to have brought such distant systems under obedience to the same law that governs the fall of heavy bodies on the earth.

During the present century tens of thousands of new double stars have been found, as telescopes have been improved and as observers have become more assiduous and more skillful. Of these thousands many hundreds are, in all likelihood, binary—that is, they form a physical system, and are not merely perspective projections on the background of the sky at the same spot. Such perspective doubles have no special interest. They are, as it were, the results of accident. The physical systems are, on the other hand, of the highest interest. Here are two suns (for stars are suns) forever linked together by gravitation; forever revolving about the same center. If they are accompanied by planets (and who shall say that they are not?) the conditions of life on such planets are strangely different from our own. Days and nights and time, and seasons in such a system depend on complex configurations not readily to be conceived.

Not only have revolving stars been detected by the telescope, but the spectroscope has stepped in to aid in such discoveries. A double star in the telescope appears as two separate stars, often so exceedingly close together as to appear single, except to the most searching vision under most favorable circumstances. There is a difference of nearness below which a given telescope cannot separate two stars into two images, but at which it will present them as one. A telescope one inch in diameter, or example, will show two stars as one image, unless the angular distance apart of the two exceeds four and a half seconds of arc. A telescope thirty-six inches in aperture cannot separate two stars close together unless their angular distance from each other exceeds one-tenth of a second of arc; and so in other cases. If we were obliged to depend upon the telescope alone, it is clear that there might be a whole universe of very close double stars that would forever remain sealed to our

THE ONLY REMEDY THAT ALWAYS CURES.

Senator Dwyer Gives Full Credit to Paine's Celery Compound.

When a single star is looked at through the spectroscope its light is spread out into a narrow brilliant band of prismatic colors—the spectrum—crossed by a number of narrow dark, or, it may be, bright, lines—the Fraunhofer lines, so called. When a close double star is viewed, only one spectrum band is visible, as if seen, but that band is crossed by two sets of dark lines. One set of dark lines belongs to each star. If the stars are revolving about each other we know that their distance apart, as seen from the earth, will change, but the unaided telescope can show nothing of this motion. In the spectroscope, however, it is shown by the distance apart of the pairs of lines in the spectrum. A certain line in the spectrum comes from the presence of hydrogen, let us say, in the atmosphere of one of the stars. It is always accompanied by comparison line due, in its turn, to hydrogen in the other star. If the distance apart of the two stars changes, the distance apart of the two hydrogen lines will change. The changes in the distance of the lines can be measured in millimeters; and from them the motion of the two stars can be calculated in miles.

By methods like those which have been here summarily described, and by other methods based on the measurement of the light of a star around which a dark body is moving, so as to periodically obscure and occult some of its light, our present knowledge of the universe of revolving double stars has been amassed. It is far from complete, but it is now possible to form some kind of a general view and to enumerate the different species. The minute study of parties stars will be one of the researches of the coming century.

One class of revolving stars is typified by the variable star Algol, whose brightness varies periodically in such a way as to make it certain that the variations in brilliancy are caused by the revolution of a "dark star" about the bright Algol. Algol is commonly a star of the second magnitude. After remaining of this brilliancy for about two and a half days it falls to fourth magnitude, that is, it loses seven-tenths of its pristine light in a short time—about four and a half hours. It remains of the fourth magnitude for about twenty minutes, and in about three and a half hours it regains all its light and remains at this brilliancy for two and a half days, and so on. The interval between observations since 1667. They are caused by the revolution of a dark satellite of large dimensions about the principal star. The bright star is about a million miles in diameter, and the dark satellite about eight hundred thousand. Their distance apart is about ten million miles. Each of these stars is, then, about the size of our own sun, but the mass of both of them combined is only two-thirds of the sun's mass. Their density is thus much less than that of water. They resemble spherical clouds, one brilliant, the other dark. Other systems of the sort have lately been discovered by spectroscopic means. One of them, Mu Scorpii, has a period of thirty-five hours only. Mizar, one of the stars of the Great Bear, has a period of fifty-two days. Others have periods of a year or more.

Binary stars discovered by means of visual observations with the telescope all revolve in much longer periods. To be seen at all, it is necessary that the principal stars should both be bright, and that the line should be separated by large distances. Gamma Virginis, for instance, has a period of one hundred and ninety-four years, and its components are situated at a distance of four seconds. Other systems of shorter period are known, but until very recently the binary star of the shortest known period, extending from the Algol class, was Kappa Pegasi, whose periodic time is over eleven years.

Prof. Hussey, at the Lick observatory, has recently printed the results of his calculations on Delta Epsilon, and his conclusions are that the components of this star revolve in the remarkably short period of five and seven-tenths years. Otto Struve, among others, long ago suspected the short period of this star but the results of Prof. Hussey although given out with caution, reserve seem to be on the conclusion which is of especial interest as it bridges the interval between stars of the Algol class with periods of a year or less and telescopic binaries with periods of a dozen years up to several hundred years. It appears to show that revolving double stars exist having periods of lengths from a day or so up to several centuries. A priori this was to be expected. At the same time the actual discovery of a telescopic binary of very short period is a matter of uncommon interest.—Dr. E. S. Holden, late of the Lick observatory.

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12 times.....1.20	12 times.....2.40
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14 times.....1.40	14 times.....2.80
15 times.....1.50	15 times.....3.00
16 times.....1.60	16 times.....3.20
17 times.....1.70	17 times.....3.40
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