

# COMET HARMLESS, SAYS ASTRONOMER

## Visit of Wanderer Bodes No Ill to Earth, Declares Professor Daniels.

### DOUBT ABOUT SPECTACLE

#### Just How Various Phenomena Will Appear Cannot Be Foretold Exactly—Retreat of Comet to Outer Space to Be Watched.

HALLEY'S COMET RISES AT 2:36 A. M. WEDNESDAY. Halley's comet rises Wednesday, 2:36 A. M.; Thursday, 2:38 A. M. Sun rises, 4:42. Comet's speed Wednesday, about 1685 miles a minute.

By J. W. Daniels, Professor of Mathematics and Astronomy at Hill Military Academy. Those who are privileged, by reason of their location on the earth, to view, as well as to experience, the phenomena attending the passage of the earth and its moon through the tail of Halley's comet, should make a study of this interesting phenomenon from its very first appearance in the sky in the east until it passes over us and takes its position in the western heavens as an evening body. A glance at No. 1 of the accompanying drawings will start the viewer as he saw the comet at about 3 o'clock in the morning, May 7, from this time on for several days the tail of the comet may be observed to expand apparently, while the nucleus remains constant in size but slowly approaching the disk of the sun. As this expansion is only apparent because of its diminished distance from the earth, the matter of refracted light constituting the huge volume of the tail will be rapidly separated, particle from particle, and the intensity of light reflected to the eye of the observer May 10, and therefrom for several days will be decreased in proportion to the expansion and approach of the comet. This means that the comet as a whole can be best viewed between May 10 and May 17. At the latter date the apparent extent of the comet's tail will be diminished to such an extent that the intensity of light greatly diminished, and the area of the heavens covered by the cometary parts nearest the earth will be immensely enlarged until the entire southwestern sky is enveloped in the cometary matter and light, and the earth and its moon about to enter for their eclipse during some hours, as represented in cuts Nos. 3 and 4.

Cut No. 5 will present to the thoughtful observer many theories for speculation before he is called upon to make the actual passage through the comet's tail. During such passages, the viewer should imagine himself to be in the center of a huge megaphone, whose smaller end is the nucleus of the comet some 14,000,000 miles distant and apparently close to the star disk, or rather to the sun, and the larger end at which he is standing must be imagined to extend beyond and back of him some 2,000,000 to 3,000,000 miles. Looking through the entire length of this cometary megaphone, the observer will see, projected upon the disk of the sun, a tiny spot, about one-tenth of the diameter of the solar disk in size, in motion imperceptible, but nevertheless real, and the spot talking about the same time to make a transit across the section of the tail takes its passing up and down, and to the other side of the earth and its satellite.

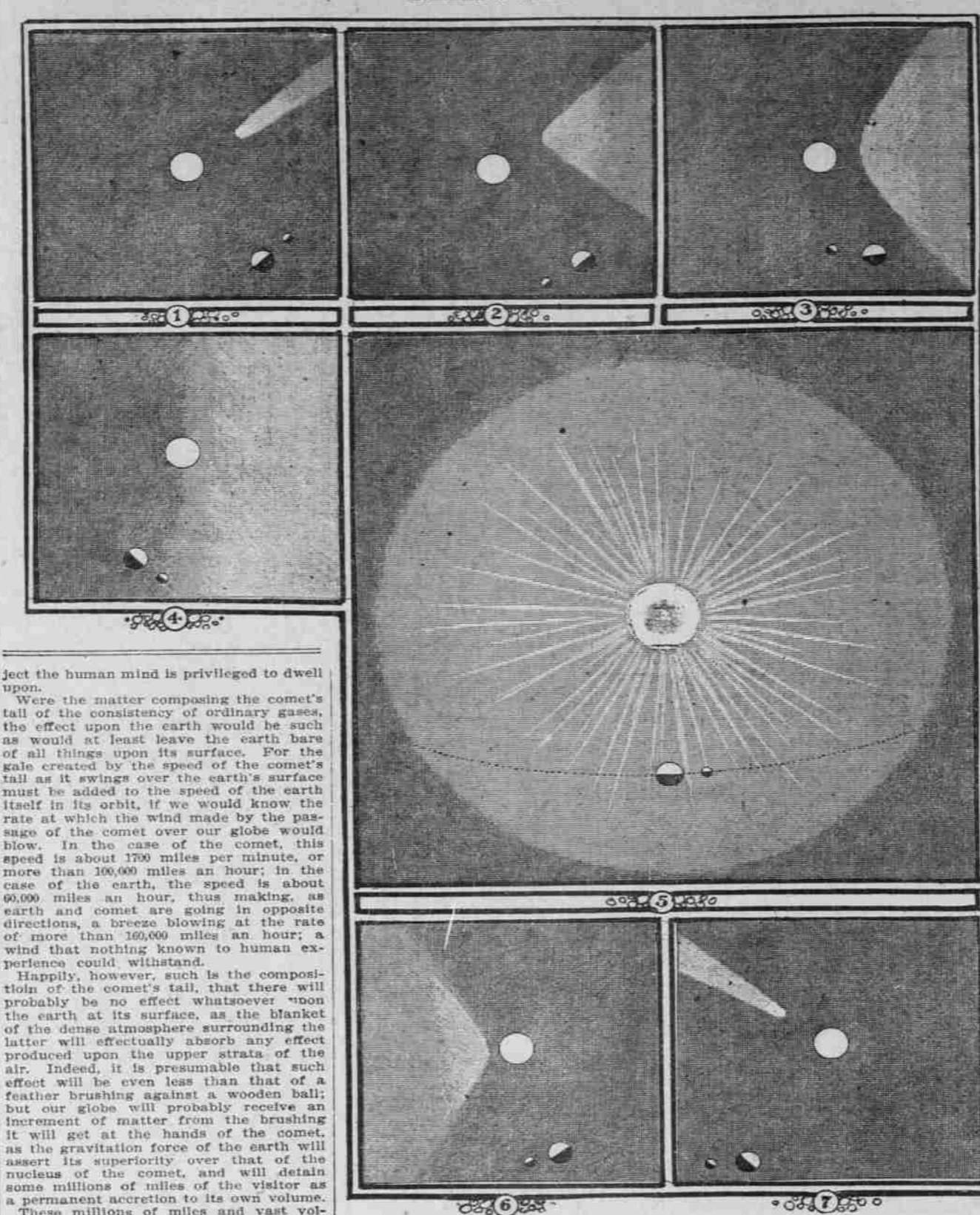
### POSSIBLE ASPECT DAY OF TRANSIT.

This spot may be of any degree of visibility, inasmuch as the nucleus of the comet may be more or less solid in character. If, like our moon, it is of such composition as to offer to the passage of the sun's light an opaque body, the spot will be black, its edges or limbs being blunted and dimmed by the obscuring sunlight, and its blackness being to quite an appreciable extent lessened to the observer by the 14,000,000 miles of cometary matter through which he is gazing at the nucleus-spot on the sun. It may be best not to anticipate too much in this respect, as there is little probability that the nucleus of the comet is a solid body; and it is much more probable that, composed of gases similar to those constituting the tail, although perhaps in a more condensed form, its projection upon the sun's disk will scarcely be discernible to the naked eye, the powerful light of the sun penetrating through the gases of the cometary head making the latter appear as a more or less dimly defined, light-brown, nebulous stain. On either side of the solar disk, or, better, on all sides of the comet, is a megaphone through which the observer is looking, the enveloping of the earth in the cometary matter may present phenomena never before witnessed by human eye. What these phenomena will be no one can safely prophesy, and it depends in large measure upon the kind of matter constituting the comet, and especially the density of that matter in the head, or nucleus, when projected upon the solar disk. If, as is the latest thought, the nucleus is composed of gases in more or less condensed state, and these gases again of different kinds, each kind reflecting its own color across the heavens radiant from the sun; and if the sun, streaming through this gaseous nucleus, using it as a lens, and perhaps as a prism, magnifies and refracts cometary tints from the sun as a center, radiant in all directions toward the sky, the spectacle may be such as imagination in its wildest flights never pictured; but this must be left for final determination until the moment of our bath in the comet's matter.

### RETIREAT OF COMET INTO SPACE.

The withdrawing of the comet from the regions of the earth and moon, after its rapid sweep over these globes, should be watched with the greatest interest; for this withdrawing will be accompanied by cometary conditions just the reverse of those marking the comet's approach eastward to the point of envelopment. The closing of the immense fan-shaped tail as it gradually leaves the earth, its apparent diminishing size, the tremendousness of its swing and its swift ascension high into the heavens again, after its awful descent and sweep across the earth, if its retreat from our vicinity is accompanied by such conditions of light as to render its right into the sky visible, the gradual narrowing of the tail, the shortening of the latter by some millions of miles because of its loss to the earth, and the slow but appreciable movement of the nucleus from the vicinity of the sun, as if being repelled by the majesty of that powerful monarch, all these phenomena will appeal to the thoughtful layman in astronomy, and will be of all-absorbing interest to the student in this, the most sublime sub-

DRAWINGS BY PROFESSOR J. W. DANIELS, ILLUSTRATING THE APPROACH AND RETREAT OF HALLEY'S COMET.



ject the human mind is privileged to dwell upon. Were the matter composing the comet's tail of the consistency of ordinary gases, the effect upon the earth would be such as would at least leave the earth bare of all things upon its surface. For the sole created by the speed of the comet's tail as it swings over the earth's surface must be added to the speed of the earth itself in its orbit, if we would know the rate at which the wind made by the passage of the comet over our globe would blow. In the case of the comet, this speed is about 170 miles per minute, or more than 100,000 miles an hour; in the case of the earth, the speed is about 60,000 miles an hour, thus making, as earth and comet are going in opposite directions, a breeze blowing at the rate of more than 160,000 miles an hour; a wind that nothing known to human experience could withstand. Happily, however, such is the composition of the comet's tail, that there will probably be no effect whatsoever upon the earth at its surface, as the blanket of the dense atmosphere surrounding the latter will effectively absorb any effect produced upon the upper strata of the air. Indeed, it is presumable that such effect will be even less than that of a feather brushing against a wooden ball; but our globe will be very rapidly an increment of matter from the brushing it will get at the hands of the comet, as the gravitation force of the earth will assist its superiority over that of the nucleus of the comet, and will detain some millions of miles of the visitor as a permanent accretion to its own volume. This million miles of matter will add little to our magnitude, as the entire body added could be compressed to ordinary density in a snuff-box; and this will be quietly assimilated with the rare outer strata of our atmosphere. The only fear we need harbor in this entire matter is that the comet's passage over us will be so unostentatious as to render its detection at all quite problematical.

### FABER REPLIES TO EUSTER

#### Architect Intimates Preacher Doesn't Understand Criticism.

In sarcastic vein, A. H. Faber, a local architect, yesterday replied to the criticism of Dr. W. T. Euster, pastor of the Sunnyside Methodist Episcopal Church, that he has made it possible to eliminate this by writing a book exposing all of the wiles of architects and contractors, which has led them to "juggle" him. Mr. Faber yesterday replied as follows: "When Mr. Euster abandons denunciation of graft, which exists only in his disordered imagination, and takes up criticism of the building industry, he has done well. I'll wager he could not tell Gothic from Romanesque, or Renaissance from classical. As to the cost of the church, the officials in its construction and have a right to size and the matter entering into it. It has cost less than any of their buildings elsewhere in the United States. As to its acoustic properties, the most purified species of nightingale, who sits at the feet of the organ, and who has spoken in auditoriums before the comets, pronounced it perfect. Besides, well-known musicians—Professor Euster, for example—commented the organ for producing an almost ideal equation of tone, and the highest note of the soprano voice being given its full and correct value by the organ's tone. The rest of his criticism reminds one of the foreman of a table cloth by pointing out the stain on the edge, and that the center was exactly in the middle of that stain. The design lacks originality, and in the work of a mere architect, the charge is in the nature of a mere technicality. The architect, however, made that the edifice is bizarre in design, and that the architect is not accustomed to having charged to my account everything unusual or out of the ordinary. That I have been guilty of some weird conceits I shall have to admit, but to have the paranoiac of everything freakish thrust upon me has grown weary. I have grown to wonder if the man ever does know anything at all about what he undertakes to do."

### HOUGHTON TRIFLE HUNGRY

#### Self-Starved Photographer Expects Soon to Eat.

Believing that his lost appetite is gradually returning after 18 days of fasting, Albert S. Houghton, the photographer, says he expects to break his long fast within the next few days. He walked to work as usual yesterday morning and was at his studio attending his routine of duties. "This fast is getting monotonous," he said last night. "I expect to die in a few days. I am still strong, but yesterday, for the first time in two weeks, I experienced a slight sensation of hunger. Between Saturday night and Monday morning I lost exactly three pounds, which brings me down to 127 pounds, just 17 pounds lighter than when I commenced my fast." Mr. Houghton appeared pale and somewhat emaciated last night as though he is keeping up only by his strong will. He is receiving a large number of communications from adherents to the "Starvation for Health" cult from all parts of the state, asking for information and advice.

### VISTA 'NEW' UNLAD

#### Charter Violation Found When Bill Is Rendered.

Portland is paying out thousands of dollars every year to viewers on proposed street openings with no returns, but the City Council committee on Judiciary yesterday afternoon refused to pay a bill of \$400 for a report on Vista avenue until a more definite statement as to the actual time employed by the three men is at hand. Reports of viewers on many streets that have been proposed for opening in recent months have been challenged by the committee when the bills were presented, and yesterday Councilmen Cellars, Baker and Ellis declined to pay the bill presented on Vista avenue by John Keating, T. Dinneen and W. A. Cadwell because the latter could not tell how much time they had given to the work. It also developed that one of the viewers was ill during the viewing of the avenue and that he substituted another man. This, according to the charter, invalidated the entire proceeding, declares Assistant City Attorney Grant.

### LADY MACCABEES RALLY

#### Representatives From 52 Hives Meet in Two-Day Session.

Representatives were present from 52 Hives of the Order of Lady Maccabees yesterday morning at the opening of the two-day state rally in the hall of Orient Lodge, I. O. O. F., at the corner of East Sixth and East Alder streets. Besides there were visitors from Utah, Michigan and Washington. Mrs. Alice Forges, estate master, presided during the day. At the morning session the supreme record keeper, Miss Bina M. West, of Port Huron, Mich., and the supreme medical examiner, Dr. Ella J. Fifield, were guests of honor at the rally. Committees were appointed followed by the registration of delegates, more than 200 being present and registered. In the afternoon memorial exercises in honor of the dead members of the order were conducted. The funeral ritual was exemplified by the officers and guards of Laurelwood Hive No. 58, of Arleta. With solemn ceremony the charter was draped by representatives of Queen Elizabeth Hive No. 24. A stirring address was delivered by Dr. Fifield, supreme medical examiner. A question box was conducted by Supreme Record Keeper West and Dr. Fifield.

### DELL EADS IS ACQUITTED

#### Larceny Charge Disproved; Madras Bootlegging Case Dropped.

PRINEVILLE, Or., May 9.—(Special.)—Dell Eads was acquitted of larceny by a jury after it had been out five minutes. The case of the State vs. Lloyd Johnson and J. T. Scott, who were concerned in the shooting of George H. Russell several weeks ago, was dismissed on motion of the District Attorney, Russell declining to appear against the men. Of the 10 Madras cases charging gambling and bootlegging, not one true bill was found and the defendants have been discharged.

### MAYOR THREATENS SUITS TO CONDEMN

#### Vexed by Broadway Bridge Delays, Simon Promises Speedy Action.

Unless the O. R. & N. Company, through General Manager O'Brien, and the Northern Pacific Terminal Company, by Manager Lyons, make known soon their attitude toward the city relative to Broadway bridge concessions, it can be stated upon authority that negotiations by the city will end and condemnation proceedings will be begun. That Mayor Simon is chafing under the long delay, brought about in part by the railroad managers and in part by dilatory action in the Circuit Court, is known, and that he will not tolerate this situation much longer. While from the outset he has felt inclined to treat with the railroad companies on a fair basis, he also has been strongly favorable to rushing the Broadway bridge to completion, and it is certain that he will demand immediate action, although he declines to make a formal statement to this effect now.

### COURT PROCEEDINGS DRAG

#### Negotiations With O. R. & N. and Terminal Company Also Believed to Be Unsatisfactory—City In Position to Act.

While the details of the negotiations are not published, the Mayor and committee having felt that a certain degree of secrecy must be had until the companies make known their exact attitude, it is regarded by city officials as apparent that the railroads are asking plenty in return for what they may have to give to the city. It is believed that what little has been told to the city is far from satisfactory to the Mayor and members of the committee. Whatever may be the outcome of the negotiations between the railroads and the city, the right of condemnation is open and the city can proceed at any time to acquire its rights of way for the Broadway bridge in this manner. In this way, the city would pay whatever a jury in the Circuit Court determined. Should this occur, the O. R. & N. Company will have to buy outright from the city whatever rights it wants in the East Side, paying the cash for the property needed for its terminals or warehouse sites. There is a bond issue of \$2,000,000 building the Broadway bridge and buying whatever property is necessary therefor, and the city is in a position to proceed with condemnation suits.

### SETTLEMENT OF REPORT WITHHELD UNLIT EXACT TIME IS CERTIFIED—SUBSTITUTE VIEWER MAKES ALL PROCEEDINGS THUS FAR ILLEGAL.

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### COMFORT AND NEW STRENGTH

#### Await the person who discovers that a long train of coffee ails can be thrown off by using

### POSTUM

#### in place of Coffee

The comfort and strength come from a rebuilding of new nerve cells by the food elements in the roasted wheat used in making Postum. And the relief from coffee ails comes from the absence of caffeine—the natural drug in coffee. Ten days' trial will show any one— "There's a Reason" for POSTUM

### WISCONSIN

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### COUNCIL COMMITTEE BALKS

#### Settlement of Report Withheld Until Exact Time Is Certified—Substitute Viewer Makes All Proceedings Thus Far Illegal.

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# SOUVENIR NIGHT

## Tomorrow, Wednesday, Evening From 8 to 9:30 o'Clock

You Are Cordially Invited to Attend

### Appropriate Souvenirs for Men and Women

This event marks an Informal Opening and we desire to introduce to you our newly remodeled "STORE BEAUTIFUL," its modern fixtures just installed and the magnificent lines of wearables we handle. All these changes and alterations were made for the sole purpose of giving you better service, more comfort, convenience and to make your trading more pleasant.

### ON THIS OCCASION

the ten winners of the prizes in the ROLL BUSINESS OUR WAY contest will be announced.

### NO GOODS SOLD DURING THE EVENING

# EASTERN OUTFITTING CO.

Washington at Tenth Street

## THE STORE WHERE YOUR CREDIT IS GOOD

gain-day business was reported at all of the offices. It is believed yesterday's sales were greater than for any previous year at this season. The exact number of tickets sold could not be learned.

### STATE JEWELERS TO MEET

#### Two Hundred Delegates in Portland for Annual Convention.

With 200 delegates in attendance, the third annual convention of the Oregon State Jewelers' Association will begin this morning at 10 o'clock in the convention hall of the Imperial Hotel. The meeting will be called to order by President H. S. Tuttle. It will be responded to by L. W. Bruns, of Portland. There will be no session tonight, the attending delegates, who, it is believed, will number 150, being given an opportunity to visit theaters. Among those who are scheduled to speak today are President French, Secretary Charles H. Williams, of Corvallis, E. J. Jaeger, of Portland; J. O. Watts, of Eugene, and reports of the president, the secretary and the treasurer, E. J. Jaeger. Tomorrow's programme includes addresses, the election of officers, selection of next year's convention city and winding up the convention with a banquet to be given by the wholesalers and manufacturers at the Commercial Club.

### It is a real delight to hear the Vienna Quartet

The exquisite renditions of popular and classical music by this famous body of players are wholly charming. And they are reproduced with such absolute faithfulness that you'll wonder at the perfection of Victor recording. Here are the six newest Victor Records by this celebrated organization:

Bliss Danabala Waltz (31777).....Strauss Serenade (3770).....Pierrot Southern Roses Waltz (31773).....Strauss Duet (31774).....Rustic Wedding (31775).....Goldenshield (31776).....Grieg Dollar Princess Medley (3756).....Leo Fall Go today to the nearest Victor dealer's and hear these and other Victor Records. He will gladly play for you any Victor music you want to hear. Ask him for the Victor Record catalog which lists more than 3000 records—both single and double-faced. Same high quality—only difference is in price. Buy double-faced if the combination suits you.

And be sure to hear the Victrola New Victor Records are on sale at all dealers on the 28th of each month Victor Talking Machine Co., Camden, N. J. To get best results, use only Victor Needles on Victor Records.



# Sherman, Gray & Co.

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