

COMETS WILL COME BACK, SAY SAVANTS

World Prepares to Welcome Tail-Bearer That Has Been Absent for More Than Seventy Years—Halley Discovered Flashy Wanderer.

By FREDERIC J. HASKIN.
(Copyright, 1908, by Frederic J. Haskin.)
Washington, Oct. 5.—The astronomers of the world are preparing to welcome a wandering comet back from the regions of space. For more than 70 years it has been out of mortal sight. For 35 years it traveled away from the sun at the rate of more miles a minute than the fastest railroad train can make in a whole day. It went so far that it was a half million miles beyond Neptune, and Neptune is at the edge of our solar system, more than 3,000,000,000 miles away from the sun. Then that mysterious law of gravity asserted itself, and this heavenly traveler sailed back around its elliptical path. For more than 30 years it has kept up the same tremendous pace it set as it went away. By the middle of October it will be only 53,000,000 miles away. By the middle of November it will have approached to within 5,000,000 miles of us. Then it will turn back once more, and speed away toward that endless space from which it came.

It Is Halley's Comet.

This strange visitor is none other than Halley's comet, named after the eminent astronomer royal, who predicted its return for the first time that man ever forecasted a comet's return. This was in 1682. He carefully measured its orbit, and not such other bearings pertaining to it as enabled him to foretell its return in 1758. He said he would not be living when it returned, but called on impartial posterity to witness the fulfillment of his prediction. For uncounted generations before this time the appearance of this comet, as well as of others, was looked upon with superstitious dread. The people thought they foreboded wars, forestall pestilence, and were the forerunners of terrible convulsions of nature.

Once Brighter Than the Sun.

Authorities disagree as to the first recorded appearance of Halley's comet. One writer says that its first appearance was in 205 B. C., and that it was afterward supposed to have foretold the overthrow of Greece by the Romans. Its next appearance he puts in 130 B. C. Its brightness at this time he said to have surpassed the brightness of the sun, and was supposed to portend the birth of Mithridates. Its return was so long that it took four hours to rise or set.

There were a number of well authenticated appearances of this comet up to 1230 A. D. That year the Mediterranean sea froze over so that the merchants could cross it in carts. In England there was a famine which took off 20,000 people, and it was reported to have caused an electrical storm which continued 15 days. During its appearance in 1305 the Baltic sea is said to have been frozen over for 14 weeks at one time. Its appearance in 1456 was coincident with the fall of Constantinople, and it filled all Christendom with such superstitious dread that they addressed to the pope the prayer: "Lord deliver us from the devil, the Turks, and the comet."

Belongs to the Neptune Group.

Halley's is one of six comets which belong to the Neptune group. That vast planet has been able to capture these six wanderers in the centuries that have passed, and none of them has ever been able to break away from it. It has a family of three, and Saturn, too, Jupiter has about 30, and so vast are the proportions of this heavenly body that it is said to have been able to break away from it. It is a family of three, and Saturn, too, Jupiter has about 30, and so vast are the proportions of this heavenly body that it is said to have been able to break away from it.

What Comets Travel Too Fast.

Traveling through space year in and year out is not conducive to the brilliancy of a comet, any more than traveling on a way train in the country is conducive to clean linen; so we do not need to expect to see Halley's comet showing up as brightly as it did in the earlier part of its experiences as a universe-trotter. It's last appearance, in 1835, was said at the time to be "disappointing," and the probability is that it will come back with even more of its tail gone and with still less brilliancy.

Comets are like people—if they travel too fast they get into trouble. Twenty-six miles a second is about the limit, and if they go beyond that limit they are traveling too fast to make the turns on their vast race course, and so plunge headlong into the great unknown perhaps never again to get even a sight of the solar system. If they move much slower than the limit, however, they are in almost as bad a fix. A big planet gets hold of them, hurries them this way or that, and again hurries them off into another direction, but all the time holding them from getting clear of its control. That why Jupiter has a family of 30 comets.

The Two Kinds of Comets.

Comets are divided into two classes, unexpected and periodic. Only a comparatively few are periodic, yet it is expected that observations will make many of the unexpected class go over into the periodic class. Some of them have such vast orbits that it takes them tens of thousands of years to return. The comet which appeared in 1852, one of the most beautiful ever seen, and which was taken by many as the forerunner of the Civil War, will not return again for 2,800 years. The comet which appeared in 1811 is reported to have an orbit to cover which requires 3,065 years to travel, at the rate of 26 miles a second. At its last appearance before 1811 it had looked down on ancient Troy, but a few years before the birth of the immortal Helen. Before this had made the Egyptians travel their final doom was at hand, a full thousands years before they had studied astronomy.

If a Comet Hit the Earth.

What would happen if Halley's comet should strike the earth? This is a question which has been often asked, and sometimes with the seriousness that is born of a sense of real danger. Not more than a generation ago the French government took up the question and invited the leading astronomers of the world to assist in its solution. After much figuring the conclusion was reached that there is only one chance in 21,000,000 of any given comet's striking our sphere.

It seems wonderful to the layman, however, that there are not collisions between the comets and the planets. For instance, if a comet comes toward earth in a general direction at right angles to that of all the planets, in order to get from the outer edge of the solar system out into empty space it must cross the path of every one of the planets. It might be supposed that the hind man's crowding a series of railroad tracks and going through without harm to himself, except that the crossing of the orbits of the planets by the comet stretches the danger through millions of years instead of compressing it into a few minutes.

The Human Mind Can Hardly Conceive of the Immensity of Space.

According to Professor Newcomb, if you were to take a small model of the universe you would represent the earth by a grain of mustard seed, and the moon would be but a speck placed an inch away. The sun would be a very large apple placed 40 feet away, and the planets would be represented by little balls varying from the size of a speck to that of a pea. The nearest star would be placed a quarter of a mile from the sun. This model, representing the solar system would require a circular field containing a half acre. Beyond that, with the stars as materialized, 2,000 miles, there would be empty space of perhaps other parts of the universe, each star being a blazing sun, larger than our own.

BULGARIA IS INDEPENDENT

(Continued from Page One.)
Key and Bulgaria the market will not be affected, but that when the other powers are involved, there will be trouble.

AUSTRIA COVETS TWO PROVINCES; KAISER SILENT

(United Press Leased Wire.)
London, Oct. 5.—The news of the declaration of independence of Bulgaria, which was received here today, did not occasion any surprise in the foreign office. It is believed here that the plan is to force a declaration of war from Turkey, when the Bulgarian soldiers will be ready to seize Adrianople and stand within striking distance of the Turkish capital.

SENTENCED TO DEATH, WIFE GOES INSANE

(Special Dispatch to The Journal.)
Boise, Ida., Oct. 5.—The same day that John Fleming was found guilty in the district court at Shoshone of murder in the first degree, the penalty for which the jury recommended was adjudged insane and committed to the state asylum. Fleming was convicted Saturday night of killing his neighbor, Frank Leonard, and the latter was found guilty of his ranch. A dispute over an irrigation ditch was the cause of bad blood between the two men. During Fleming's confinement in jail his wife's mind gave way from worry over the case.

FALLS FORTY FEET; ON GROUND ALL NIGHT

(Special Dispatch to The Journal.)
The Dalles, Oct. 5.—Harry Newkirk of this city fell 40 feet from the O. R. & N. railway bridge here Saturday night. People heard his groans but could not locate him until about 7 o'clock Sunday morning, when a party of the policemen discovered him and had him taken to The Dalles sanitarium. The injured man says he does not know how he fell or what time the fall took place. Newkirk is about 85 years of age and has been employed during the summer on the Chenoweth Cove farm, west of this city.

Kissed by 400.

(Special Dispatch to The Journal.)
Los Angeles, Oct. 5.—W. M. Colquhoun is recovering today from the bewildering experience of having been kissed by 400 pretty girls in plain view of 2,000 spectators. Colquhoun was wedded to Miss Mary Clark of Azusa at his home on Echo street. The ceremony was hardly over when, to the amazement of his bride, her husband was surrounded by a feminine throng eager to congratulate him. The blushing bridegroom was unable to escape even if he wished and evasive best men looked on while a single column of girls filed past and saluted Colquhoun on cheeks or lips.

Advertising Sale Women's Fine Hosiery Continues at Lennon's

35c, 40c and 50c values—
pair 15c
Comprising gauze, lisle or black, white, tan and pink; also lace effect; great values for 15c pair.
65c, 75c, 85c and 95.00 values—
pair 29c
Comprising black, white, tan, pink, blue, gray and navy, in plain lisle and silk lisle, lace boot and all-over laces; also fancy patterns and embroidered; values to \$1.00. Price, pair.....29c

NOTICE TO THE PUBLIC

On account of order of County Commissioners that only single cars will be permitted to operate over the Madison Bridge, Oregon City and Cazadero cars will arrive and leave East Morrison and Water streets. Effective Saturday morning, Oct. 3, 1908. Outgoing passengers for these trains can reach these cars by using cars crossing Morrison-street Bridge. Cazadero and Oregon City trains will leave East Water and East Morrison streets on the same schedule as formerly maintained at First and Alder streets. Portland Railway, Light & Power Co.

FOR PIMPLES, TOO

New Discovery Cures Acne and Eradicates Minor Skin Troubles Overnight.

A few months ago the dispensers of poison, the new discovery for the cure of acne, decided to allow the drug-gate of the country to handle it. Previous to that time it could only be obtained direct from the laboratories. Since this change in the method of distribution, poison has met with the most phenomenal success of anything introduced to the drug trade in the last 10 years. All leading drug stores, including the Skidmore Drug Co. in Portland are now carrying the specific. The most recent size adopted is also the \$2 jar.

This great success is not surprising when it is remembered that, in acne cases, poison stops the itching with first application, proceeds to heal immediately and cures chronic cases in a few weeks. In minor skin troubles, such as pimples, blackheads, acne, herpes, blotches, rash, etc., results show after overnight application. Experimental samples of poison are sent to anyone by mail free of charge by the Skidmore Laboratories, 32 West Twenty-fifth street, New York City.

GREATER POWERS CALL CONFERENCE FOR MEDIATION

Paris, Oct. 5.—An unofficial announcement was issued from the foreign office today that France, England and Russia, members of the new "triple alliance," have agreed to a proposal of mediation between Turkey and Bulgaria. Foreign Ministers Pinchon of France, Jawlowsky of Russia and Noun Pasha of Bulgaria are expected to meet at the conclusion of which it was announced that Dr. Staniloff, the Bulgarian minister of foreign affairs, had accepted the proposal. It is probable that Sir Edward Grey, the English minister of foreign affairs, will be asked to attend the conference. The proposed action of Austria-Hungary in annexing Bosnia and Herzegovina is not to be the subject of discussion.

The French press views with alarm the situation in the Balkan peninsula. The papers say the situation is pregnant with possibilities of upsetting the entire European entente.

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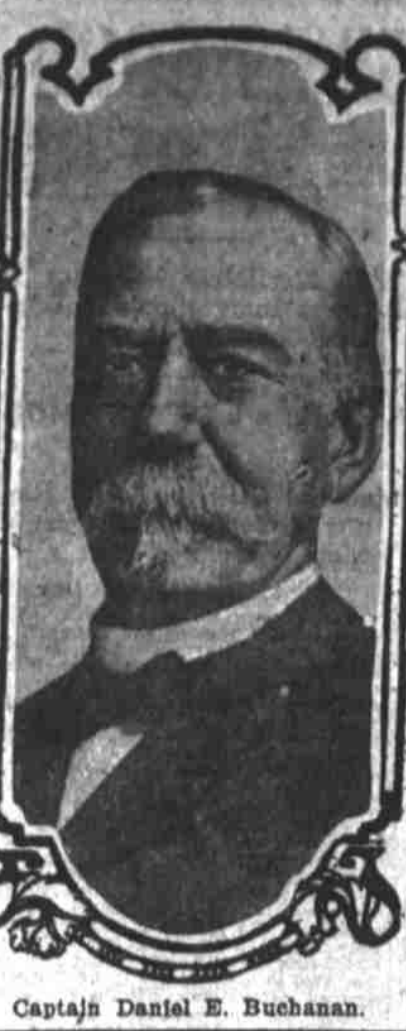
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Captain Daniel E. Buchanan.

PIONEER RIVER MAN IS DEAD

Captain D. E. Buchanan Passes Away at His Home in Portland.

Captain Daniel E. Buchanan, for many years prominently identified with the steamboat interest of the Columbia river, died yesterday afternoon at his residence, 325 Multnomah street.

Captain Buchanan had been seriously ill from a complication of diseases for the past two months, and while his death was not unexpected it was not believed by his attendants to be so near at hand. Captain Buchanan's death marks the passing of another of the early pioneers of this city, who devoted the greater part of a long life to the development and upbuilding of Oregon. He was either master or chief engineer of a number of steamers plying on the Columbia and Willamette rivers. He saw several years' service in the government engineering department during which he was engaged in dredging the channels of the Willamette and Columbia rivers from Portland to the sea.

REGISTER PENS ARE BEGINNING REAL WORK

At the beginning of the third week of registration for the presidential election the number of new names added to the rolls is little over 500. This morning a fair quota of voters lined up at the county clerk's office and before 10 o'clock the rolls were up to date for the time that remains. The books will close at 5 p. m. on the afternoon of October 10.

LOGGER IS KILLED BY FALLING TREE

Hood River, Or., Oct. 5.—Edward L. Smith, employed in one of the logging camps of the Stanley-Smith Lumber company, near Green Point, was killed Saturday afternoon while falling a timber. Smith had just finished chopping through a tree and started to run to a place of safety, before he could get out of its way the falling tree caught and crushed him to death.

He was 35 years old and is well known here. The body was brought to this city.

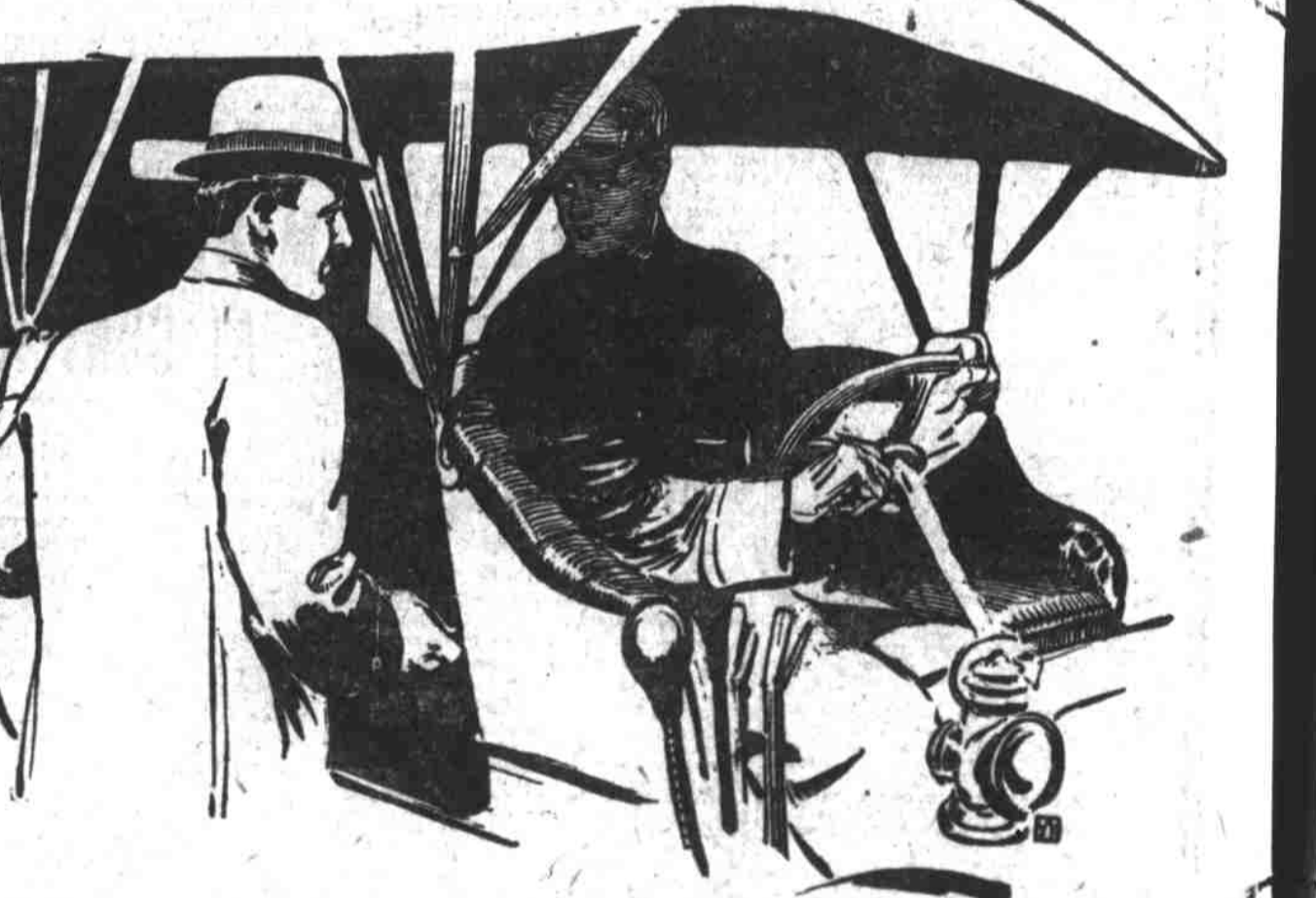
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Bon Ami

The Finest Cleaner Made

cleans the house from kitchen to parlor, pots to statuary, paint to mirrors, without a scratch.



A Competent Chauffeur

Do you need a competent chauffeur or cab-driver? Don't bother with every way under the sun trying to get one, but just read the Situation Wanted Columns of The Journal.

It's the easiest and most economical way of obtaining all kinds of good help.

Every day experienced chauffeurs and cab-drivers advertise in The Journal for positions. Men who are mechanics, industrious workers, and are just the kind of help you want.

If you are looking for a good chauffeur, cab-driver, or general handy man—just read the Situation Wanted Ads of The Journal, and you'll be sure to find the man you want.

JOURNAL WANT ADS COST ONE CENT A WORD. SEVEN INSERTIONS FOR THE PRICE OF SIX.



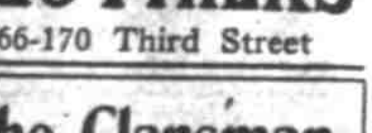
We solicit your vote for our candidate—Mr. Hy Quality.

He stands on the platform of good shoes.

He believes in good clothes.

He indorses good furnishings, and he's ahead on good hats.

Our store is his headquarters.



The Lion CLOTHIERS

166-170 Third Street

The Clansman IS COMING