Lessons of the Vorage

## FIVE MILES UP IN THIN AIR

Authentic Account of the Greatest Recent Balloon Voyage.

THRILLING INCIDENTS OF THE TRIP

Intense Cold Experienced and Life Sustained by Stored Oxygen-How it Feels to Drop a Thousand Feet a Minute.

The world's record for high balloon ascents belongs to Dr. A. Berson of Berlin, who made the recent remarkable aerial voyage from London. On an ascent made in the balloon Phoenix, from Strassfurth near Madgeburg, on December 4, 1894, he reached the altitude of 30,037 feet, with the barometer at 9.098 inches and the thermometer recording 54 degrees below zero, Fahrenheit, or 86 degrees of frost.

The nearest approach to this is Coxwell and Glaisher's English record of 29,000 feet from Wolverhampton, on September 5, 1862, when Mr. Glashier became insensible and regained consciousness only after descending to 27,000 feet. It may be remarked figures of heights reached by balloons are merely deducted. The calculation is

would slowly fill the balloon, instead of on this occasion so clear was the at- and placed on a cart to be driven to the you to know that the fights have been limoverflowing through the open mouth—the mosphere that we could see as far as the neargst railway station. safety valve—as would have been the case eye could reach. The North sea was visible with coal gas. We should thus retain our and we could trace the coast line slong to eral reader, a balf empty balloon can as-cend much higher than a full one.

My brothers and an efficient staff of assistants attended to the final inflation, so that Dr. Berson and I returned from a comfortable luncheon at 1 o'clock on the day of the ascent, to find the balloon in readi-

It was a glorious day for the purpose. The baromter stood above thirty inches and the temperature was \$0 degrees in the shade at the Crystal Palace, a splendid clear sky with only a few fleecy clouds in its whole xpanse. The day was one which seemed nore suited to Italy than to gloomy England. A genial southeasterly breeze barely custled the foliage and the sun shone brilliantly. The Excelsior stood upright with only the faintest sign of movement, ready for its upward career, awaiting the adjustment of the scientific instruments. It looked businesslike and powerful, towering some seventy feet high, covered with its symmetrical netting and ropes. Its semi-inflated condition did not add to its appearance, but the satisfactory lifting power was evident by the strain at the lines attached

to the hoop and car.
Dr Berson adjusted his instruments, which included a mercury barometer that

ascending power until the balloon was quite the Wash. We could observe the dots upon full, without the need of discharging bal- the ocean which denoted the position of last. Strange as it may appear to the gen- steamers. To the south the English channel could be seen with the coast line of France beyond. At 24,000 feet the balloon had been discharging its gas for some time, thus causing it to lose its lifting power, and I noticed that the telltale violet line of the self-registering aperoid began a downward course. We thereupon began discharging ballast. In order to facilitate this each bag (we had eight) was tied by a line at top and bottom and hung outside our car; all we had to do was to untie or cut the top line when all the ballast was precipitated, leaving the empty bag banging to the car by the lower line. Between 2:30 and 3 s'clock we discharged four bags of sand,

> Berson's carefully worked out chart. Cold Weather Sets In. The cold had become very severe at this height and though thickly clothed I was shivering. I noticed that Dr. Berson appeared coloriess in the face and he remarked the same of me.

> caused the balloon to reach its maximum altitude of 27,297 feet as shown in Dr.

The oxygen inhalation seemed most ad vantageous, for with it one felt comfortable, but when as an experiment I removed the tube I found a drowsiness coming on. Berson suffered no ill effect and continued based upon the pressure of the atmosphere required great nicety in position, an an- taking his readings. We both studied care-

The result of this trip shows certain principles which we must bear in mind when continuing these high ascent experiments. It will be noticed that the balloon towered upwards to 22,377 feet by 2:31 p. m. This was while the gas was expanding, completely filling the balloon and blowing off its surplus. After so much gas had left that an equilibrium was attained the discharge ballast had but little effect, each bag fifty pounds thrown giving but a trifling lift. It is therefore obvious that a greater altitude can only be reached by using a larger and light balloon. For future experiments a balloon of almost double the capacity, viz. 100,000 cubic feet, should be used. Pure hydrogen should be generated to give it the necessary lifting power. All depends upon the weight of the material of each weighing fifty pounds, and thereby

balloon and the proportion it bears to the lifting power of the gas. If we can get a balloon to carry us up when only a quarter full we can then reach much greater heights. If, however, the balloon requires to be half filled to lift, it will be useless for such a purpose. Oxygen gas to breathe is a necessity and with its aid I think it possible to attain greater heights than yet reached. There is a field for further research and I hope to obtain the assistance and collaboration of scientists and other friends in its exploration.

THE KLONDIKE THEATER.

An Evening at a Show Estimated to Order. Stealing is almost unknown, and the larger number of prisoners doing time H. B. S. Marcus, one of Dawson City's are men who have cheated at gambling. most prominent citizens, left New York City The penalty for cheating at a game of recently en route for home, after a stay of chance is three years' imprisonment. Take

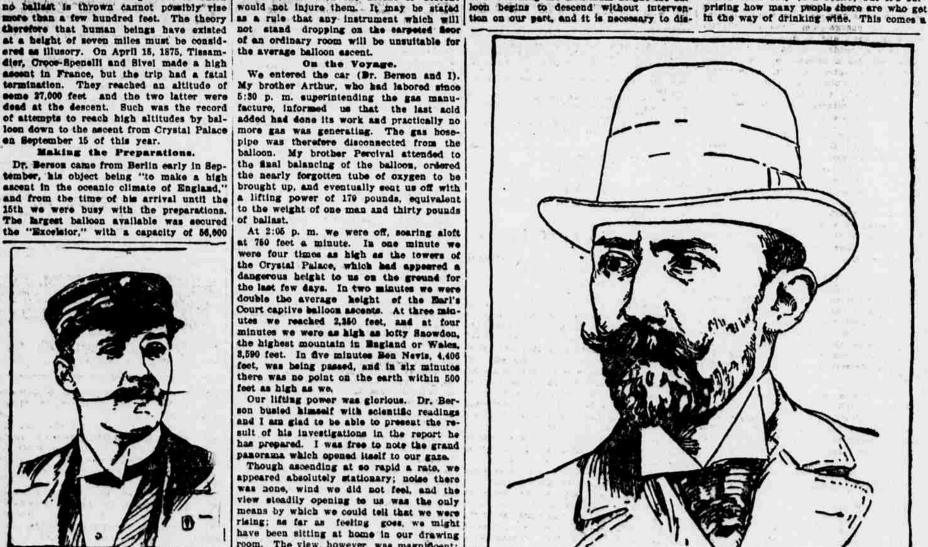
Marcus makes a specialty of furnishing the little old town." "colors" and other accessories at considerable expense to Dawson City's jeunesse doree and others that they may "do the rest," and as a result he owns a number of good gold mines that he personally did not discover. Mr. Marcus, in short, is the owner of the "Combination Theater"-Dawson's leading playhouse-and is the best known impresario north of the Juneau. This is his second visit to the United States during the present year and he brought a matter of eighty-one pounds of gold dust, which he exchanged for greenbacks at the Philadelphia

Marcus is in appearance the typical western miner, relates the New York Times. He was dressed in short coat, had corduror trousers, a brown woolen shirt, in the bosom of which sparkled a high diamond. As a compromise to the amenities of eastern civ-ilization, he wore a pair of immense gloves such as might be affected by a coachman in Speaking of the drame in the Yukon dis

triot, Mr. Marcus stated that the stage did not require to be "elevated" there.

"We do not go in for much talent," said. "All we want is plenty of lungs and legs to make the show a go, and the manager and actors make a pretty good thing of it the year round. The great expense in starting in the theatrical business there is the building. My theater is of logs, 100 by fifty feet, and cost \$40,000. Of course, the women draw the best. What we want above all in women is voice, and plenty of it, good and strong, for variety business is our long suit, and plenty of singing is re-

we were fleating, and found that we were "The show is a continuous performance, making almost directly for the sea. This in- beginning about 3 p. m. and skimming along dicated that our course was more westerly than ever, and at 3:28 it was decided to open for about seventeen hours. The price of seat is only \$2.50, and there are no reserve too high, as discovered by late ascents, so of thermometers were contained in a case the valve and thus hasten the descent. Whilst seats. There are tables inside, however Scating at these great heights the sound of and the playgoers there are generally cannon being discharged below reached us thirsty, so that the principal profit in the with perfect distinctness, but of other sounds show business is in the sale of drinks. If there was absolutely none. It will be ob- a man wants to go in light and simply trot served from the barometrical chart that along in the procession, he drinks beer, after reaching the maximum height the bai- which costs only \$6 a bottle; but it's sur-



at the top of the balloon, and our descent began in real carnest. It will be observed that at 3:15 we were at 27,200 feet and at rectory near Upminster. Thus we had dropped 700 feet a minute for forty minutes to time, but had little effect, at first dis-

pint, but big an pments into the wines have now placed it within the reach of all. Whisky can be had for 50 cents a drink, and a rattling good cigar can be bought for 70 cents. soft drinks don't go at all The waiters in the Klondike theater get \$15 was a rush of gas which created a whichling a day, and the members of the crohestra are paid a little more. The actors get \$150 week, and no difference is made in their pay. If they are good enough to go on at all, they are worth \$150, and we don't want

any worth more. "The actresses get the same amount, bu in addition are allowed 25 per cent on all drinks that they induce customers to buy You see, between her turns a singer is allowed to rest herself at one of the tables out among the audience. While she's resting, if a geneleman desires to refresh her with wine, naturally she doesn't object.

There's where her big money comes in "The show goes on till 12 or 1 o'clock in the morning, when the dancing begins, and continues till about 7 or 8 o'clock. All the actresses must be able to dance. The price of a ticket calling for one dance is \$150, and the gentleman who likes dancing is supposed to like wine also, and generally does. The lady gets her usual percentage.

"We have stuck strictly to vaudeville so erly. I want to run about one night a week, but I'll have to raise the price of adinto the attenuated atmosphere of the upper look about. Usually when one makes an The usual crowd of assistants arrived on nothing, you know. We put on a prize fight regions the natural expansion of the gas ascent the view is obscured by clouds, but the scene and the balloon was packed up every few nights, and it may seem odd to

ited by the police to ten rounds. Another thing about Dawson that might surprise you people here is that all saloons and theaters close at midnight on Saturday nights and remain so over Sunday. A Sun day in Dawson is tamer than in New York.

"The busy season there begins in June, when the miners finish their cleanup. should say that the ordinary evening's expense of a man who wanted to take in the theater will average about \$400, for everything costs a little something there. For instance, he'll want a bath first thing, as a man who has too much pay dirt sticking around on him wouldn't have any fur at the dance. There's a public bath house in Dawson which charges only \$5 a bath, but that's something. A shave costs \$1, and \$2.50 more goes for a hair cut. It' these little things that count up. The only thing in the way of luxury there that s

man can't get is a shoe shine. There are no bootblacks, because they would starve. "You see, Dawson has only one street, and the mud on this is from six inches to two feet deep. There are no sidewalks, but we are going to have some pretty soon. for the town treasury now has a surplus of \$180,000. To raise this they fined recently every sporting man in town \$50, and every gambling house paid \$1,000. We have a fine hospital, which was built principally by the gambling houses, and the town has nearly everything else that's required in a first-class place. There are about forty policemen on the force, and there is no disjust twenty days in the United States. Mr. it all together, Dawson is a pretty good

Manager Marcus desires it stated that if there are any stagestruck young women knocking about the country today who would like to accumulate money sufficient to start a bonfire, they may apply at the door of the Combination theater. Dawson City, any time during the coming night, which in that city lasts four months.

Dr. Bull's Cough Syrup is pleasant to the taste. No child refuses to take it. MAGNETISM IN BRICKS.

Experiments Made by Prof. Lawrence of Rochester University.

Probably the idea of a humble red brick would ever play any part in electrical experiments has occurred to few. However, this is just what a certain lot of bricks composing a pier at the Reynolds laboratory did, reports the Rochester (N. Y.) Chronicle, and will continue to do as long as they are within reasonable distance of the delicate electrical instruments used in the laboratory. A suspicion that the above contingency might exist has been in the mind of Prof. Henry E. Lawrence of the University of Rochester for some time past. That it is a reality he now feels sure and the methods he used to come to that conclusion are most

interesting. The professor, in collaboration with Otis A. Gage, a special student in electricity. began a series of experiments covering some months. The performance of magnetometer which was used in measuring the magnetic power of a steel bar was the first cause for suspecting that the bricks were other than what their appearance would lead one to think. The magnetometer had rested on a brick pier for the purpose of making it Not long after Prof. Lawrence, while in Ann Arbor, heard of a similar experience occurring there. On his return the experiments went on with more zeal than ever. Bricks of all varieties were put through any number of tests and the great majority were found to be magnetic. Those manufactured by water power, known as "hydraulic" bricks, proved to be exceedingly strong, one equalling the power of steel needle 2.3 centimetres in length. This same block of clay would make noticeable ments, while delicate ones would flutter per-

eptibly. One of the bricks, a plain white one, hydraulically pressed, possessed no magnetism. A certain amount of lime enters into the composition of a white brick, such as was used, and its presence undoubtedly had much to do with the absence of magnetic power. It was discovered that the bricks gained magnetism in the presence of dynamo, though the surrounding of the bricks by wire coils made no perceptible difference. Heating the bricks served in a measure to decrease the magnetism, though

in each case a minute amount was retained. To just what cause this is due neither gentleman is ready to state. It is the present spinion, however, that there is more or less magnetite in the clay of which the bricks are made. The mode of manufacturing is also thought to have something to do with the phenomena. As stated above, the presence of lime served to decrease the magnex am, while the absence allowed of greater power. The professor thinks the importance of his discovery obvious. The slightest trace of unsuspected magnetic power in the structural part of a laboratory is necessarily fatal to nicety of electrical measurements. That clay, when worked ever so little by human agency, gathers magnetic properties has been thought for some time. Eminent

Italian scientists have made innumerable experiments in that line during the last half dozen years. Their greatest proof was found by experimenting with several examples of ancient pottery which had been buried for centuries. Orude as they were, magnetism was found to exist in no uncertain quantities

A baby is like crazy patch-work, composed of bits of its ancesters. All of them contribute something to bely's physical or mental or moral make-up. The mother gives the largest share. To a an are. To a great extent the health of a child depends upon the health of the mother, both before and after birth.

If, during the period of expectancy, the mother enjoys mother enjoys

bealth, she will have a child with a rebust bedy, an alert brain and vigorous health. You cannot expect such a child from a weak, sickly, nervous, despondent woman, who is broken down by derangements and disease of the distinctly feminine organs. A woman in that condition is almost sure to have a pusy, sickly, peevish baby. Dr. Pierce's Favorite Prescription is the best preparation for metherhood. It relieves maternity of its dangers, and of almost all its pain. It restores the delicate and important organs that bear the brunt of maternity to perfect health and strength, and assists the regular and healthful performance of all the natural functions. It hanishes the allments of the critical period, and makes baby's debut casy and almost painless. It insures the little new-cemer's health. Thousands have testided to its merits. Good medicine dealers sell it, and no honest drugglet will insuit your intelligence by arging upon you semething else as "just as good." The "just as good" kind is dear at any price.

Mrs. P. B. Cannings, of No. 4320 Humphrey tree! bealth, she will have a child with a rebust

kind is dear at any price.

Mrs. P. B. Cannings, of No. 4320 Humphrey Sireet, B. Leuis, Me. writes: "I am new the happy mether of a fine, healthy baby girl. I feel that your "Faverite Prescription" has done me mere good than anything I have ever taken. I took three bettles of the "Prescription." and the consequences were I was only in labor forty-five minutes. With my first baby I suffered eighteen hours, and then had to lose him."

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DEATH OF A GIANT.

"The North Star Prodigy" Goes the James S. McIndoo, known as "the North Star Prodigy" and "the Madella giant," recently died at his home in Madella, Minn. The St. Paul Pioneer Press has this account

James S. McIndoo was born at Crescent

Iroquois county, Ill., on the 5th day of July,

of the remarkable youth:

1880, of Scotch-Irish parentage. He was a normal child at birth and so remained until 7 years of age, when he began to show a quite rapid growth, and at 11 years old and thereafter has grown with a marvelous rapidity and abnormally developed. He measured 7 feet 2 inches high, 4 feet 3 inches around the chest, 4 feet 1 inch around the waist, 4 feet 6 inches around the hips and 4 feet 8 inches around the points of shoulder. He weighed 308 pounds, wore No. 24 shoe and a No. 9 hat, measuring 2 feet 3 inches around the head. He spanned 1314 inches with his hand and his feet were each 75 inches broad and 16 inches long His feet and hands were a little larger than a proportionate size to his body, he doubtless having the largest feet of any person of his age in the world. He had many anomalous characteristics and peculiarities, among which was the fact that he was as much unsuited to the division of time as he was to other regulations of normally developed people. For him the days and nights were too short-were the length of each twenty hours it would be more in accordance with his nature. He required one exceptionally large meal about every twenty hours, wanting to sleep from fifteen to twenty hours and remain awake proportionately. Although 18 years of age, he had not shed his baby teeth and had no more indications of a beard than a woman. His aspirations, thoughts and actions were those of a 10-year-old child. His appetite and capacity were enormous he could eat a peck of apples or a basket of grapes without an intermission. He consumed on an average as much as two laboring men. His brothers and sisters, eigh in number, and his parents, are all of medium size, he being as much of an anomaly and abnormality to the family as to the human race. He was considerable of a genius, having made a violin, on which he played well. His education was poor, due largely to weakness of his eyes. He was of a genial and courteous disposition and was well liked by the community in which he lived. Considered in every particular, he was the most wonderful after-birth prodigy ever produced.

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A CHEMICAL PUZZLE.

How Does Gold Exist in Its Native

Statef Experts in gold mining agree that pretty much the bottom fact now known about such metal is, briefly, that all original pyrites of small grain texture contain gold to a greater or less extent-this, of course, not covering such secondary large crystal pyritous deposits derived from veins. It is not yet known, however, whether the gold in these pyrites is in chemical combination with the sulphide of gold or whether each minute particle of gold is simply covered with a coating of sulphide of iron-or, finally, whether such particles are in the metallic state, but alloyed with silver or other metal, which combines more rapidly with sulphur than the gold does, and, consequently, forms a coat of sulphide of silver over the gold. The particles of gold are so minute and the combinations follow so rapidly during the splitting up of these pyrites that the finest instruments and mistry have as yet bee unable to settle this part of the question to the satisfaction of all concerned-this fact showing how easy it is to put in a mill that will not save the values.

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what upon the temperature at the altitude

reading of ten inches, but according to Dr.

Berson the temperature calculation was far

mother 8,000 feet, and reached the altitude

dier, Croce-Spenelli and Sivel made a high

Making the Preparations.

tember, his object being "to make a high

ascent in the oceanic climate of England."

and from the time of his arrival until the

Dr. Berson came from Berlin early in Sep-

en September 15 of this year.

meable to gas for the coming ascent. Calcugas, for the purpose

laced at our disposal for the purpose of the accept and the installation for the manufacture of the hydregen was erected therein. it consisted of a series of four casks of 250 gallons each, in which the gas was generwater. These four casks were connected by means of iron gas pipes to a fifth cask of similar size, through which a constant flow of water was maintained to wash the gas as it passed over. A sixth cask containing unslacked lime to dry the gas (connected to the series by a pipe) completed the aparatus. Forty-eight carboys of acid (about four tons), three tons of iron turnings and 6,000 or 7,000 gallons of water were used in the manufacture of the gas.

Balloon Half Filled. The generation of gas started in Wednesday, September 14, at 2 p. m., and continued until dark, being resumed at 6 a. m. on the following day, and at 1:30 p. m. about 32.000 a complete inflation of coal gas, and with the advantage that as the balloon ascended into the attenuated atmosphere of the upper

STANLEY SPENCER. cubic feet and weighing when empty 1,500 pounds. It had been used at the Earl's Court exhibition as a captive balloon, carrying parties of women and men to a moderate assemblage of houses on the banks of the district was obtainable. It received we began to discern the distant coast line. an extra coat of varnish to render it imperation showed that it would be practically ble to reach the desired altitude with the weight of two persons and the instruments in the car, if the balloon was infated with the ordinary gas and it was therefore decided to manufacture pure hydrogen gas, which is much lighter than coal

The grounds of the Crystal palace were means of iron, sulphuric acid and

cubic feet of hydrogen had been supplied the iron tube of compressed gas which we and trees and we reached the earth with a play of some kind next summer if I can get to the balloon, which more than half filled had brought and found the apparatus worked smart bump. The balloon immediately fell a bunch of talent that can take it off propit and gave it a lifting power equivalent to satisfactorily. The nozzle of the tube was over on its side on the ground. Its work

as shown by the barometer, and also some- | eroid in a protective case and a self-regis- | fully when at the maximum height the ditering instrument, with a clock to denote in question. Mr. Glaisher's claim of 29,000 the time and a lever which contained a pen feet was deducted from the barometrical at its extremity which marked in vielet ink on its chart every upward and downward movement of the belloon. His series that the correct altitude should be 28,200 with a revolving fan worse by close of feet. The supposition is that while Mr. which had the effect of keeping a constant Glatcher was insensible the balloon rose flow of air past the builts of the thermometers. Everything was thoroughly proof seven miles, but this claim is untenable. | tected in cases, so that any slight knocks A full balloon at that height out of which in connection with the ascent or descent

INFLATING THE BALLOON EXCELSIOR.

at a height of seven miles must be consid- of an ordinary room will be unsuitable for ered as illusory. On April 15, 1875, Tissam- the average balloon escent. On the Voyage We entered the car (Dr. Berson and I) ascent in France, but the trip had a fatal ination. They reached an altitude of My brother Arthur, who had labored since some 27,000 feet and the two latter were 5:30 p. m. superintending the gas manudead at the descent. Such was the record facture, informed us that the last sold of attempts to reach high altitudes by bal- added had done its work and practically no loon down to the ascent from Crystal Palace | more gas was generating. The gas hosepipe was therefore disconnected from the balloon. My brother Percival attended to the final balancing of the balloon, ordered the nearly forgotten tube of oxygen to be brought up, and eventually sent us off with

a lifting power of 170 pounds, equivalent to the weight of one man and thirty pounds of ballast. At 2:05 p. m. we were off, soaring aloft at 750 feet a minute. In one minute w were four times as high as the towers of the Crystal Palace, which had appeared a dangerous height to us on the ground for the last few days. In two minutes we were double the average height of the Barl's Court captive balloon ascents. At three minutes we reached 2,350 feet, and at four minutes we were as high as lotty Snowden, the highest mountain in England or Wales 3,590 feet. In five minutes Ben Nevis, 4,406 feet, was being passed, and in six minutes

there was no point on the earth within 500 feet as high as we. Our lifting power was glorious. Dr. Berson busied himself with scientific readings and I am glad to be able to present the result of his investigations in the report he has prepared. I was free to note the grand panorama which opened itself to our gaze. Though ascending at so rapid a rate, we appeared absolutely stationary; noise there was none, wind we did not feel, and the view steadily opening to us was the only means by which we could tell that we were rising; as far as feeling goes, we might have been sitting at home in our drawing room. The view, however, was magnificent; the Palace, the grounds, friends and spectators had long since diminished into insignificance; the absolutely clear air enabled us to take into view the distant landscape for miles; while London itself, at first a eight of 1,000 feet, whence a birdseye view of a winding river, began to look smaller as At 0,000 feet the doctor pointed out to me that the southeast wind with which we had left the ground had gradually changed to south and then to southwest, thus proving the correctness of an observation which he

had made before starting that the upper currents generally bear to the right. At 14,000 feet, seventeen minutes after the start, we were nearing the maximum height which I had ever before reached, and were I asked to state what was the sensation I could only answer by saying that there was an entire absence of sensation. Up to now there had been no feeling of cold, no feeling of emotion, only absolute tranquility, perfect rest, with the grandost view possible for mortal eyes to

behold slowly unfolding itself to view below. Breathing from Oxygen Tabes. Between 18,000 feet and 20,000 feet the calloon, which was only half inflated at starting, had become quite full and was pouring out its gas in form of clouds of mist through the open mouth. We were able to distinguish the peculiar rusty smell and taste by which I can always tell the resence of the hydrogen we generatewhich chemists describe as a "tasteless, colgetting decidedly cold. The pressure of the soon deeply encrusted with a coating of was done; it had no further power to lift fibrous ice. At 22,300 feet we took a good us.

chrage sand to obtain again a lift. The bal- little dear, of course, costing \$40 a pint botloop would therefore naturally descend to the tie. It was seiling at from \$60 to \$50 a earth without attention on our part, but the seaward direction rendered it desirable to hasten the downward course if we wished to avoid a descent into the Atlantic ocean. Falling Through the Air. When the talve had been opened there

noise as it escaped through the open orific 3:55 we were on the ground at Cranham as the average, which meant that at some points we were dropping at nearly 1,000 feet a minute. Ballast was discharged from time appearing upwards in clouds, but after wards repassing us as the downward drop of the ballson moderated. All the ballas was thrown and now it remained for the folds of the balloon to form a parachute and thus slack the speed of the fall. This it did more and more as we entered the denser atmosphere below. The descent was a reorless and odorless element." It was now versal of the ascent and warmth in increasing power became neticeable as we went atmosphere was only half what it was upon lower and lower. Pive hundred feet of trail the ground. We began breathing oxygen rope hung from the balloon. This touched through the indis rubber pipes attached to the ground and lay across fields and hedges