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Editor and Proprietor.

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AFRAID OF X-RAYS.

EDISON ABANDONS SEARCH FOR FLUORESCENT LAMP.

Dally Put His Head to the Light Which Caused His Hair and Mustache to Fall off—Edison Nearly Becomes Blind from Effects of the Light.

(NEW YORK WORLD.)

That loss of sight, cancerous disease and even death may come to him who is continuously exposed to or inexperienced in the use of Roentgen rays has been demonstrated in a pitiable manner in the laboratory of Thomas A. Edison at Orange, N. J. Clarence Dally, an assistant to the "Wizard of Menlo Park," has contributed an arm and a hand to this demonstration, while Mr. Edison himself suffers from the disturbed focus of one of his eyes through experiments with this mysterious light in an endeavor to find for it some commercial utility.

The chief sufferer, Dally, who has a wife and two boys to take care of, is left to depend entirely upon the generosity of Mr. Edison, in whose interests, supplemented by an enthusiastic desire to delve deeper in that mysterious force which brings to view objects concealed in solid matter, he has been incapacitated from taking up the life burdens and duties that usually fall to man.

The story of Clarence Dally is best told by Dr. W. B. Graves, one of the leading surgeons of New Jersey, who was seen by a World representative in his cottage on Main street, East Orange, yesterday afternoon. He says:

"Clarence Dally came to me nearly seven years ago," said Dr. Graves, "and I wish to say in the beginning that I regard him a martyr to science. He is so regarded by the medical profession generally, for not one cent has ever been charged him for either surgical or medical services. He presents to science a pitiable object-lesson of the dangers of inexperienced or continuous experiments with X rays, and his sufferings have done more to bring to professional notice a correct knowledge of things to be avoided than anything else in the history of scientific research upon this subject.

"Dally was a wiry chap, as hard as nails; a little fellow, but a specimen of perfect manhood when he left the United States navy, in which he had been a chief gunner's mate, to take up the practical study of X rays, because they fascinated him. When he came to me seven years ago it was because his regular physician thought he needed a surgeon. He had been following his hobby, enthusiastically and had been testing tubes in the Edison laboratory, exposing himself to the forcible light with an utter disregard to himself.

"In the beginning his hair began to fall out and his face began to wrinkle. Then dermatitis, or inflammation of the skin, set in, and manifested itself in a sore on the back of his left hand. This was caused, he told me by placing it between the fluoroscope and the X-ray tube, in order that the latter might be thoroughly tested, or perhaps by the light falling upon his hand as it passed the flange of the instrument as he held it. There was no sensation of acute pain, only a soreness and a numbness. In other words he had used his own person continuously to test the tubes. He was doctored carefully with a view to curing the skin disease upon the back of his hand, but it grew worse instead of better, all methods of treatment failing to influence it. Then arterio sclerosis, or a thickening or hardening of the arteries set in, and this extended even to the most minute blood vessel in his arm.

"There was no paralysis, but the drying up of the blood vessels took away the nourishment from the tissues and prevented the sore on his left hand from healing. The right hand was also affected, even to the finger tips, but it was not so serious a condition as the left.

"The trouble in his left hand finally developed into a skin cancer, and the whole arm, away up above the elbow, as well into the biceps, was affected.

"Two years ago this arm was am-

putated. The amputation was about three inches below the shoulder, all above that being healthy.

"I then turned my attention to the right arm, with a view to saving it, but it began to manifest the same disposition as the amputated arm, and a short time ago I took off four of Dally's fingers, so that now he has but one thumb on one hand with which to earn his livelihood. It is impossible for him to work, and he must live on the bounty of Mr. Edison or starve.

"Dally's case has told science that the continuous exposure of any part of the human anatomy to the influence of the X-rays is deadly to the parts so exposed. Of course it does not interfere with the use of the light for medical purposes when it is handled by experienced persons, but it is not a thing to be trifled with. Under proper care it is of great use.

"Dally made a hobby of X-rays. When Edison set up his machines in the Crystal Palace, Dally did the mechanical work. And then he put his head up in front of the light in order that people might look through it. The result was that his hair and mustache fell out.

Another sufferer from the use of X-rays, Mr. Edison, himself, was seen at his home in Llewellyn Park, Orange, by a World reporter and asked to tell the story of the experiment which disabled Dally and came near making Mr. Edison sightless:

"Don't talk to me about X-rays," he said. "I am afraid of them. I stopped experimenting with them two years ago, when I came near losing my eyesight, and Dally, my assistant, practically lost the use of both of his arms. I am afraid of radium and polonium too, and I don't want to monkey with them.

"Up to two years ago I was deeply interested in X-rays. I used a fluoroscope which I invented—a pyramidal box with one open end, the smaller, and a larger closed end, the covering being a chemical sheet against which the object to be examined is placed, the rays being focussed upon it. I was making experiments in a dark room that I had constructed in one end of the laboratory. I was looking for an improved crystal, and there were daily results that fascinated me and kept my eye glued to the fluoroscope virtually all the time.

"I used my left eye, and one day when I came out of the dark room and closed my right eye for a moment everything looked double. I at once repaired to an oculist, who said that my eye was something over a foot out of focus. It is still imperfect, and I do not think that it will ever be entirely well.

"When I noticed the effect upon my eye I cautioned Dally. I told him that there was danger in the continuous use of the tubes, but he persisted because he was so enthusiastic upon the subject. The only thing that saved my eyesight was that I used a very weak tube, while Dally insisted in using the most powerful one he could find.

"The box of the fluoroscope only partially covered his face, so that the light fell upon his hair and made it fall out—that is, what was left of it after exposing his head to the light in a reckless way to illustrate its power. Part of his hand and arm were also exposed to the action of the light.

"I am keeping him on the payroll, although he is not able to do any work, and I expect to take care of him as long as he lives.

"My researches, I might as well tell you now that I have abandoned them, were in the direction of making a fluorescent lamp. I obtained results which brought me each day nearer to the object of my desire. I found a crystal that was fluorescing 12,000 times, and I thought I had my lamp. Then came the question of practical use. I could make the lamp all right, but when I did so I found that it would kill everybody who would use it continuously.

"No, I do not want to know anyone about X-rays. In the hands of experimental operators they are a valuable adjunct to surgery, locating as they do objects concealed from view, and making, for instance, the operation for appendicitis almost sure. But they are dangerous, deadly, in the hands of the inexperienced, or even in the hands of the man who is using them continuously for experiment. There are two pretty good object lessons of this fact to be found in the Oranges."

Manure to give away at the Brick Stable.

A MENAGERIE WRECKED

TERROR STRICKEN PEOPLE FLEE IN ALL DIRECTIONS.

Lions, Tigers, Hyenas, Elephants and Reptiles Set at Liberty—Latest Report Puts Death List at 22 and 70 Injured—Three Reptiles Under School House.

Durand, Mich., Aug. 7.—The country for miles around is in a fever of excitement occasioned by a fearful wreck of the two sections of trains this morning which were transporting Wallace Brothers' big circus company and menagerie.

At two o'clock this afternoon those engaged in the rescue work have recovered 19 dead and mangled bodies of men and women, several animals are dead in the debris, and fully a score of wild beasts escaped from their cages and are terrorizing the usually quiet community.

Two fierce tigers have made a temporary home in the cemetery near this town, and it is believed that three lions and a lioness are in a barn two miles away.

House dogs are keeping up continued howling, which denotes the presence of wild beasts.

Many persons are hurrying into the village to seek places of safety. Among these fugitives from their peaceful homes are women and children.

Durand, Mich., Aug. 7.—Early this morning the people of this town were aroused by the continual blowing of a locomotive whistle. Soon there came running into the Richelieu Hotel two men, who told briefly the story of a frightful train wreck which had not long before occurred about half a mile from the depot.

Two physicians started hurriedly for the scene, and within 10 minutes half the population of the town were running in the direction of the accident. While the streets were practically filled with excited people, suddenly women began screaming and brave men hurried them to places of safety.

The fear was occasioned by the appearance of four huge lions walking leisurely across a field from the railroad tracks.

The incident caused many to shut themselves in their homes, where they still remain. Not a child is seen on any street.

At the place of disaster all is confusion.

Eight passenger coaches are piled into a heap, and animal cars lie wrecked beside the tracks.

The cause of the catastrophe is said to be due to the airbrake on the engine of the second section, which refused to work.

The two trains were running from Charlotte, where the circus exhibited last night. They were run in two sections, half an hour apart. The first section was delayed, and was standing on the main track near here when the second section, running at great speed, crashed into it. The engineer saw the train ahead, but the airbrakes refused to work.

At 2 o'clock this afternoon 19 are reported killed and 40 injured. Probably a score of persons injured will not recover.

The Richelieu hotel here is being used as a temporary hospital. Seven of the rear cars of the first train and the engine and two cars of the second train, in which many were sleeping, were piled up and have taken fire. Many of the passengers were killed while asleep. Some of the bodies are crushed and mangled beyond identification.

One big elephant and two camels and several less valuable animals were killed.

At a late hour this afternoon three hyenas were seen attacking a young calf on a farm three miles from this place. Seven elephants are grazing in a field back of the schoolhouse here.

A cage of snakes was partially wrecked, and it was believed that none escaped. Later, however, it developed that every one of the reptiles is enjoying liberty, and three of the monsters are said to be under the schoolhouse.

Sorrow and grief is mingled with abject fear in this little town today. Many of those who lost their lives were animal keepers.

The scene of the wreck is indescribable, the injured animals keeping up a constant turmoil.

The death list includes all horses save one.

Reports at 2:30 o'clock place the death list at 22 and the injured at 70.

Hood River, Aug. 7.—William Foss, who lives one mile from Hood River on the east side, drank from a jug containing poison Tuesday and died in great agony a few hours later.

He was helping a neighbor spray his apple orchard, and by mistake, it was asserted, drank the poison that was used to spray the trees. It appears that the spray that is used by orchardists comes in a concentrated form and is put into barrels and diluted ready for use. One of the neighbor's children brought this poison to the house in a jug, and Foss picked it up and drank from it, believing that it contained coffee. Although a doctor was called as soon as it was learned what had been done, the man was past aid and died.

Dysentery Cured Without the Aid of a Doctor.

"I am just up from a hard spell of the flux" (dysentery) says Mr. T. A. Spinner, a well-known merchant of Drummond, Tenn. "I used one small bottle of Chamberlain's Colic, Cholera and Diarrhoea Remedy and was cured without having a doctor. I consider it the best cholera medicine in the world. There is no need of employing a doctor when this remedy is used, for no doctor can prescribe a better medicine for bowel complaint in any form either for children or adults. It never fails and is pleasant to take. For sale by Allen & Woodward.

For Sale,

Shropshire sheep.
Aberdeen Angus cattle.
Poland China pigs.
Young stock now ready for shipment.
Fat cows and heifers of the best breed to trade for Jersey cows, also spring calves of best breeds for sale or trade.
One second hand 20-foot wind mill tower.

L. L. Brooks.

For Sale.

Twelve head of large sized Durham milk cows, 16 head two year old heifers, one Durham bull 5 years old, and one pedigreed Durham bull two years old. Intend to close out business; must be sold by Sept. 1, 1903.

J. E. Aldrich.

REDUCED RATES.

To the Seaside and Mountain Resorts for the Summer.

On and after June 1st, 1903, the Southern Pacific in connection with the Corvallis & Eastern railroad will have on sale round trip tickets from points on their lines to Newport, Yaquina and Detroit, at very low rates, good for return until October 10, 1903.

Three day tickets to Newport and Yaquina, good going Saturdays and returning Mondays, are also on sale from all Eastside points Portland to Eugene inclusive, and from all Westside points enabling people to visit their families and spend Sunday at the seaside.

Season tickets from all Eastside points Portland to Eugene inclusive, and from all Westside points are also on sale to Detroit at very low rates with stop-over privileges at Mill City or at any point east enabling tourists to visit the Santiam and Breitenbush as well as the famous Breitenbush Hot Springs in the Cascade mountains which can be reached in one day.

Season tickets will be good for return from all points until October 10th. Three day tickets will be good going on Saturdays and returning Mondays ONLY. Tickets from Portland and vicinity will be good for return via the East or West side at option of passenger. Tickets from Eugene and vicinity will be good going via the Lebanon Springfield branch, if desired. Baggage on Newport tickets checked through to Newport; on Yaquina tickets to Yaquina only.

S. P. trains connect with the C. & E. at Albany and Corvallis, for Yaquina and Newport. Trains on the C. & E. for Detroit leave Albany at 7 a. m. enabling tourists to the Hot Springs to reach there the same day.

Full information as to rates, time tables, etc can be obtained on application to Edwin Stone, manager C. & E., R. R. at Albany; W. E. Coman, G. P. A. S. P. Co. Portland or to any S. P. or O. R. agent.

Rate from Corvallis to Newport \$3.75.

Rate from Corvallis to Yaquina \$3.25.

Rate from Corvallis to Detroit, \$3.75.

Three days rate from Corvallis to Yaquina or Newport, \$2.50.