

History of Motion Picture Industry

By Beatrice Michelena

CHAPTER III.



In very scientific phraseology the principle, by virtue of which the artists saw Occident in motion during the shuffling of the photographs, was "visual persistence," which means that, from the time he lifted a hoof until he had again planted it, enough pictures were secured of him, while doing it, that when they were seen one after another in rapid succession, the very small variation of the leg's position, as registered by each photograph and the one next following, deluded the spectator into believing he had seen the entire step taken in one continuous and unbroken movement.

The idea itself, involved in the principle, was not a new one. In fact, it is much older than photography. Long before there was a camera, or any of its kindred devices, the possibilities of "visual persistence" were recognized and, in a measure, employed through making a series of drawings of some subject, with a minute and gradual variation of position as they followed each other in the series. The animated cartoons of today are made in the same general manner.

What the photographs, taken with Muybridge's row of cameras, really did was to bring together two old principles and open up to them new and vastly enlarged possibilities. From this chance union of "visual persistence" and photography was to be born the entire motion picture industry in all its astounding immensity and multitudinously diverse ramifications.

As I have said, the first thing necessary to gather any practical or commercial possibilities from the idea that has been uncovered to the world, was to devise one camera that would do the work of Muybridge's many. The principle on which such a camera would have to be developed was obvious. It was a question of exposing one plate, removing it and getting another before the lens in time for the next picture, and before the subject had too far advanced from the position registered in the preceding photograph. When we see how simply the thing is done today, we may be inclined to wonder at the length of time and the insupportable labor that were necessary to its perfection. As a matter of fact, it was the working out of those devices which most prominently contributed to the simplicity of motion picture photography now, that occasioned the long research, experiments and courageous struggles of earlier explorers in the field.

As the thing is now done, there is a long, thin, ribbon-like coil of sens-

itized celluloid film, which unrolls, to the turning of a crank, from one pitch dark box or magazine into another, passing in transit before the camera's lens, which closes and shuts sixteen times each second (provided, of course, the cameraman turns his crank at regulation speed). By an automatic arrangement this celluloid film makes its trip from the "unexposed" magazine into the "exposed" magazine in intermittent but almost imperceptible jerks. After each jerk there is the briefest kind of stop—just long enough to allow the tiny section of celluloid then in front of the lens to be exposed. Then the shutter closes the lens, the exposed section moves on into the dark, and, almost more quickly than thought, the lens is again open to expose the tiny section of film immediately to the preceding section's rear. When the roll of celluloid is taken finally from the "exposed" magazine and developed in the dark room, the result is a strip of innumerable little photographic negatives, one joining immediately behind the other and running the full length of the celluloid ribbon. There are sixteen pictures to each foot of this length and all sixteen have been taken in a second's time.

In its more essential features, that is all there is to it. Given the celluloid film, the lens and a few tools, anyone, with the average American boy's ingenuity, could put together a camera that could make at least passable shift at getting a picture in motion.

But what would the motion picture manufacturer of today do if there were no celluloid film? Here then looms up a big difficulty. It was one of the many that confronted the pioneers that first began to labor and experiment with the idea engendered by Muybridge's photographs. There was no celluloid film; everything then known about photography and the chemicals necessary to sensitizing plates made such a thing seem absolutely impossible. The first manufacturer of motion picture cameras had to rely on heavy and unwieldy glass plates. (To be continued in next issue.)

Seven Hundred Elks Eat Venison

Seven hundred Elks and their families from all over the valley partook of the venison feed set before them by the Medford Elks at Bybee bridge Sunday. A number of Ashland Elks attended and report a fine time. Sixty gallons of mulligan, one bear, ten bucks and 150 gallons of cider were consumed.

Under the federal aid road act, within the next five years \$160,000,000 will be spent by federal and state governments in improving rural roads.

FOR SHERIFF



E. W. Wilson
REPUBLICAN NOMINEE
No. 60 on Ballot

As deputy in charge of the Sheriff's office during the last two administrations I have acquired the experience and ability so essential to the economical and businesslike conduct of this highly important office. I promise if elected to rigidly enforce all laws and to do all in my power to bring violators to justice. I am fully conversant with the duties and requirements of the office, and will maintain it in its present efficient condition. During the past three years many important changes have been inaugurated in the handling of tax collections; the work has been so systematized that the employment of only one extra deputy was necessary in the collection of the second installment of taxes.

All delinquent taxes for the past six years have been carried forward to the last tax roll, and a ready abstract of taxes is to be had on any property in the county by reference to the current tax roll.

During all this time all moneys coming into the office have been accounted for, as can readily be seen by reports of expert accountants now on file with the County Clerk.

These results have been obtained by experience and close application to work. I believe that my labors as Deputy Sheriff during the past four years will merit your further approval by according me your support in the election of November 7, 1916.

Respectfully submitted,
E. W. WILSON.
(Paid advertisement.)

Watch for Bands On Wild Ducks

If you kill or capture a wild duck bearing an aluminum band around one leg, having a number on one side, and on the other a statement requesting that the U. S. Department of Agriculture or the Biological Survey be notified, you are requested to send this band at once to the Bureau of Biological Survey, U. S. Department of Agriculture, Washington, D. C. This band, if accompanied by a statement as to date, place and circumstances under which the bird was taken, will be of service to the Survey in its efforts to determine the longevity of individual ducks and the routes of migration of the species. The bands are being attached to considerable numbers of wild duck of several species which have been cured of the duck sickness prevalent around the Great Salt Lake, Utah, and there released. The department is particularly anxious to secure reports from these birds to determine their complete recovery from this malady, which has killed hundreds of thousands of ducks in Utah.

Will Give Away A Thousand Pies

Spokane, Wash., October 17.—One hundred thousand apple pies will be given away to visitors at the ninth National Apple Show in Spokane, November 20 to 25, it is announced by Gordon C. Cobaley, manager of the show.

"Everyone entering the apple palace will be given a pie hot from the oven," states Mr. Cobaley. "We are going to show the people that we not only have apples good to look at, but better to eat."

"A model kitchen is being installed in the apple show enclosure, and six large ovens working night and day will turn out pies by the mile. Our ovens will have a capacity of 10,000 a day, and we shall commandeer a number of restaurant ranges if the crowds come too fast."

Golden West Coffee is "Just Right"

Bellevue Notes

(By the Language Classes of Bellevue School.)

Mr. and Mrs. Koon, who have been visiting at Professor Joy's, departed Thursday for Corvallis. Mr. Koon is a brother of Mrs. Joy and lives in Oklahoma, but has come to Oregon with an idea of settling here.

Mrs. L. E. Owings and children spent the vacation period of last week at Phoenix.

Several people of this community have made trips to Hornbrook to get salmon at the hatchery.

Charles Homes took some Sudan grass to the thresher last week.

The Joy children entertained their cousin at the picture show last week.

Mr. and Mrs. Sam King visited at Mr. Jensen's Sunday evening.

We are glad to report Glenn Farmer back in school after several days' absence.

Mrs. Kelts and daughter Nellie visited the Beagles Sunday.

Bellevue Sunday school continues with a good attendance.

The Parent-Teacher Circle is fortunate in securing our representative, Miss Towne, for the meeting Friday evening this week. She will discuss community meetings, school legislation and some of the important measures to be voted on at the coming election.

Mr. Dozier and Mr. Howard visited at Sam King's Sunday.

Mr. Davis is helping Mr. Andrews pick apples.

Mrs. York had the misfortune to fall last week, cutting quite a place in her forehead. It was necessary to have the doctor, who took several stitches in the wound.

The following boys held a picnic Sunday: Floyd and Ollis Phelps, Clarence Homes and Roland York. Mr. Roage had Mr. Phelps cut his hair Sunday. Winter will now set in.

Lillie Phelps has been out of school three days on account of sickness. She is back now.

Mr. Hawley is in California. The Phelps boys are tending his chores while he is away.

Mrs. Beagle and daughter Capitola called on Mrs. Kelts Wednesday. Bernice Kelts returned home with them.

Capitola Beagle spent Sunday afternoon and night with Alice Ager in town.

Jimmie Howard of Hornbrook spent several days with the Beagle boys last week.

Mrs. C. R. Moore visited at W. L. Moore's Saturday.

J. W. Farmer and son Ivan left Sunday evening for the Songer hill, where they expect to do road work.

A. D. Moore and family, Roy and John Drake and William Oden went for an outing to Jenny creek.

Mr. and Mrs. Taber and daughter Gwendolyn spent Sunday at A. D. Moore's.

Mrs. Fred Miller is visiting her mother, Mrs. I. C. Moore. She expects to leave for St. Paul, Minn., this week.

Prairie dogs can be destroyed by poison at a cost varying, according to prevailing conditions, from 5 to 8 cents an acre.

Work has started on a three-story hotel at Bend.



Little Girls School Girls

All little girls under 14 years of age—

Here is news for you.

We will give Free the Little "Wedgewood" Junior range pictured below, to the little girl under 14 years of age who makes the greatest number of English words out of the letters in the words, "Wedgewood Stoves and Ranges."

Here is the Range FREE

—to some little girl.

It's a beauty—see it in our show window—

CONDITIONS:—Come to our store and register your name. We will give you a Little circular that tells you all about the contest and what you will have to do to win.

It will be great fun for you. And the best of it is you can have all the help you can get.

It's a dandy prize. See it in our show window. Hurry, Hurry, Only 20 Days.

For full particulars see

Ashland Furniture Co.

92-94 N. Main St.

Wick & Smith

Hughes' Vision Of America

"I have a great vision, my fellow citizen, of America for the future. It is not an America torn by disorders; it is not an America ruled now by this force, now by that force; it is not an America given over to civil war; it is not an America where public office is merely ruled for advantage. It is an America efficient; it is an America prepared; it is an America maintaining the rights of American people on the land and sea, without fear or favor, throughout the world; it is an America that has no secret understandings, no covert intrigues; it is an America with no unstated purposes; it is an America standing four-square toward all nations, firm and prepared, intent on peace and demanding its just rights be recognized as to lives, property and commerce.

"The America that I see in the future is an America that knows how to manage its great activities without being wasteful and extravagant. It is an America that knows how to spend public moneys honestly as well as to appropriate them. It is an America that has patriotism in every bureau of the administration as well as in any appropriation for military

operations. It is an America where all the people abandon class antagonisms though having their necessary differences which they peaceably adjust. It is an America which, having no class antagonisms, feels knit together in a splendid national unity, in one great love of country, with one unswerving loyalty transcending all differences of race and creed. It is an America first and an America efficient."

Sixty-seven state agricultural colleges and experiment stations are devoted to the development of agriculture. Their endowment, plant, and equipment amount to \$160,000,000. They have an income of more than \$25,000,000, with 5500 teachers and a resident student body of over 75,000.

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