

MUNCIE ROTARIANS TO ENJOY BANQUET, GOLF MATCH HERE

It is expected that approximately 150 will attend the joint Muncie-Richmond Rotary banquet meeting to be held in the Knights of Pythias rooms of the K. P. temple Thursday evening. Robert Heun, secretary of the local Rotary club, said Tuesday.

The joint meeting comes as a part of the annual program of the Rotary club here and is usually preceded by a golf match between members of the two Rotary clubs. This year, however, the golf match will be held between picked members of the two country clubs, and the contestants in the match who are not Rotarians will be guests of the local Rotary club at the joint meeting and banquet. It is expected that 25 or 30 golfers from Muncie will take part in the competition. A lunch at the country club will precede the golf match, which will be held Thursday afternoon.

William Dudley Fouke will be the speaker at the joint meeting according to the present arrangements, and the plans indicate that suitable entertainment will be provided for the occasion.

Mr. Heun stated that a return match will be held at Muncie between the two golf clubs some time in the near future and that a joint meeting of members of the two Rotary clubs will be held in Muncie at that time.

Richmond citizens who were recently received into membership in Rotary are Walter Bates and Earl H. Mann.

SEE HIM IN BATHING SUIT FIRST, ADVICE

(By United Press)

DALLAS, Tex., July 18.—Flappers, before you decide on a husband, see him first in a bathing suit.

So advises Frank E. Morris, executive secretary of the Texas Retail Dry Goods association. He says:

"If I were a woman I would never decide on a man until I have first seen him in a bathing suit and that after he had had a dip in the water, so that I could determine just how ugly a creature I was about to encourage as a possible husband."

Men are as clever as women in hiding their defects under a tailor's art.

Too, I would recommend to men that they see women in their bathing suits before popping the question.

"There is a fine chance for deception on the part of women and men might be disillusioned and suffer a good many regrets, just as the woman would, were they to ask the young lady to take a swim before becoming too strongly emmeshed in Cupid's spider web."

Morris is a defender of the flapper.

"The flapper is a much abused person," he says. "There is too much of a modern tendency to make evil out of everything."

Prove Value of Hot Water Seed Treatment By Yield

SHELBYVILLE, Ind., July 18.—Value of hot water treatment of seed wheat was conclusively demonstrated by the yield of 24 bushels of wheat testing 62 pounds, grown from treated seed on the Hamilton farm near here under the management of Ernest Thornburg.

Three of the lowest yielding fields on the farm were selected last year for the test. Inspectors from the state seed certification department were unable to find even a trace of disease in the fields and stated the wheat was the best they had seen in the state.

New Fast Action Camera

By FREDERIC J. HASKIN

WASHINGTON, D. C., July 18.—How a big shell crawls into the armor plate of a battleship, and how a golf club hits a ball are two long standing mysteries that are mysteries no longer.

The newest ultra-rapid camera analyzes the high speed motion of the shell as though it were moving at a snail's pace. To the eye the shell, traveling at perhaps 2,500 feet second, seems to crash into the target almost instantaneously after it is fired. The high speed camera shows it creeping with a rotary motion down to the armor plate, wriggling its way into the steel, and sending bits of wreckage floating slowly into the air.

The golf club shaft is shown by the camera actually to bend forward as it strikes the ball. That the stick did this was suspected by some players, but there was no way of proving the point. The camera shows that as the club is brought down to the ball the force of the drive bends the shaft forward. The head of the club lags behind from the force of the stroke. But at the instant the clubhead contacts with the ball the bend in the shaft is reversed. The greater the power back of the stroke the greater the bend in the shaft.

Motions as rapid as these have hitherto been hidden even from the quick eyes of the usual high speed motion picture cameras. With these, catching 10,000 pictures a minute, the shell would burst more slowly than normally but not slowly enough to show its exact action.

The new camera is the invention of C. Francis Jenkins of this city. His machine takes 100,000 pictures a minute. This is 100 times the speed of a normal speed motion picture camera. A motion which is performed in one second can by Jenkins' invention be spread out over 100 seconds when turned into film and shown on a screen.

The race horse that you occasionally see floating around a track in the movie pictorials can be made to go at one-tenth that speed by Mr. Jenkins. The cameras in commercial use, however, are swift enough for this sort of things, he says. His machine goes after more elusive subjects, with faster or more complicated action.

Invented Thirty Years Ago

The principle of this camera was invented by Mr. Jenkins 30 years ago, but it was only last year that he developed it to take high speed movies. Since then he has made a number of pictures for the Army and Navy. None has been publicly shown.

Besides wanting an answer to the question of how a shell strikes a battleship, the Navy asked Mr. Jenkins to grind out an analysis of a seaplane taking off through the water. The inventor had to film this four or five times before camera and plane got into action together. The whole scene had to be filmed in four seconds. This was more than sufficient time since 400 feet of film could be recorded in four seconds. It even allowed a margin of 100 feet of film each side of the action because the rush of the plane would fill only 200. The only problem was to start the camera so that the plane would dash out within the length of the film. It was a difficult assignment, but Mr. Jenkins filled it.

High speed pictures of airplane flights showed that no one had ever been able to see—the bending and warping of the propeller under great powers of the engine. This has been shown in detail by the films and study of the condition will probably lead to the production of stronger, stiffer blades.

The Navy also had pictures made of several pigeons being released from a basket at the start of a race. The point in question was whether the pigeons bumped into one another and

were hindered at the start when released simultaneously from one basket. This picture showed the pigeons did interfere.

By chance facts that pigeon experts had never learned. The pigeon's wings were seen slowly rising on the up stroke until they touched over its back; then they dropped on the down stroke and touched below its breast. The pigeon flies so swiftly that this peculiarity had never been apparent to the eye.

The pigeon breeders were surprised to find, too, that the feathers at the tip of the wing spread like fingers as the wind goes through them on the up stroke.

Since the tumbling pigeon taught aviators how to loop the loop, it may be that the birdmen can learn further secrets from the pigeon by the close analysis of its flight that is now possible.

This camera is for scientific purposes. Just as a very high powered microscope is necessary for some exacting laboratory work, so the ultra-rapid camera, with a prospect of attaining 200,000 pictures a minute, will have its place in scientific research.

Also Sends Radio Pictures

Mr. Jenkins has lately been attracting great interest by another invention of his, an instrument for sending pictures by radio. He has already sent pictures successfully and now he is working to send moving pictures by radio. He knows how it is to be done, but he estimates that it will be about a year before the necessary additional instruments for the higher speed will be completed. The instruments for all of his work have to be made in his own laboratory, or else he has to have them made at great expense and difficulty by manufacturers. The necessary apparatus or parts are not commercially available.

Sending moving pictures by radio is merely an amplification of the method by which ordinary pictures can be sent, the inventor says. The main principle of the camera used in all of his work is a prismatic ring, a new optical shape in glass.

"By means of these prismatic rings and a photo-electric cell at the sending station, the light characteristics which make up a picture are converted into electric current characteristics," Mr. Jenkins explains. "These in turn modulate radio waves employed as carriers. When these arrive at a receiving station the electric characteristics are changed back into picture characteristics by means of another pair of prismatic rings and a light valve and the scene at the sending station is reproduced with fidelity.

"An actual scene may be transmitted as readily as a drawing or photograph. At the several receiving stations it is reproduced on a photographic negative with duplicate prints or on a moving picture screen for direct viewing.

"The daily papers may get pictures of news events broadcasted from the immediate scene without the delay of any photographic process at the sending end. Paris and London events coming west will be seen in America some hours before they happen by the clock.

"A criminal suspect may be stood up in front of a broadcasting machine and his image appear in every police station in the country equipped with a suitable receiving instrument. Details.

The Bhatghar irrigation dam near Poona, India, containing 21,500,000 cubic feet of masonry, has the largest volume of any dam in the world.

The dress of Japanese women is

When you feel discouraged, nervous, tired, worned or despondent it is a sure sign you need MOTTS NERVERINE PILLS.

They renew the normal vigor and make life worth living. Be sure and ask for MOTTS NERVERINE PILLS. For droppers.

WILLIAMS MFG. CO. Proprietary. C. O. Williams

For sale at Quigley's, 4th & Main Sts.

Most middle-aged and young women are glad to learn that Foley Kidney Pills afford a way to escape sleep disturbances, bladder weakness, backache, rheumatism and other ills. Mrs. Mary Bourke, 407 McAllister St., San Francisco, Calif., says: "Foley Kidney Pills very quickly stop a bad pain in my back. I will let my friends to try Foley Kidney Pills for that trouble. Contain no opiates, harmful or habit forming drugs. A. G. Drug Co., 626-628 Main St.—Advertisement.

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