

Mary Kelly Interviews Fever Discovery Heroine

An interview with Alice C. Evans, senior bacteriologist with the National Institute of Health, appeared in the Washington (D. C.) Post, written by Mary Greiner Kelly, formerly a member of the Mail Tribune staff.

The story, with a full-page banner, is accompanied by a three-column picture of Mrs. Evans.

The article, concerning Miss Evans' discovery of the germ of undulant fever, by contracting the dread disease herself, is of interest locally, because of the subject matter, as well as Mrs. Kelly's writing. The interview follows:

(By Mary Greiner Kelly.)
Sparring with death, she might live! To this noble end has the career of Miss Alice C. Evans, senior bacteriologist with the National Institute of Health, been dedicated.

Miss Evans' casual discovery of undulant, or Mediterranean fever, rocked the scientific world in 1923. Presenting humanity with a key to safeguarding its health against a dread disease, she lost her own for all time by succumbing to it.

Caught It Herself.
Lack of health, however, has not deterred this courageous scientist from forging ahead in her chosen field. Becoming infected by Mediterranean fever germs she was studying 10 years ago, she has never fully recovered from the strange, recurring disease. It has returned, like a specter, to cloud her dreams and waggle a finger in the face of her achievements.

There is, however, nothing of the martyr about Miss Evans. The cause of her illness is one thing she will not discuss. It was her associates at the institute who told her sacrifice.

Pressed for more data, she smiled and dismissed the question.

"That was nothing. It is all in a day's work. Scientists expect those things."

But her associates consider her 10-year single-handed fight against such odds unusual, even in a scientist. They remember her valiant battle against the slow, debilitating waves of pain that characterize this peculiar fever. They remember that in spite of it she has gone ahead unflinchingly along the progressive path of science.

Before Miss Evans' discovery of undulant fever as a distinct entity, it was diagnosed and treated as typhoid or other fevers.

Studying Streptococci.
Now it is the classification of streptococci that consumes her time and energy. This is the bacterium found in scarlet fever, erysipelas, childbirth fever and septic sore throats. It may take years to find out what she is after. When she discovers it, she will pass calmly, unobtrusively, on to the next problem. For that's the way of the scientist.

But what are the effects of Miss Evans' undulant fever discovery? The rigid tightening up on milk pasteurization by health officers the country over is one. For it is through raw milk the germs of this insidious disease are most easily conveyed.

A more definite understanding of the disease is another. Diagnosed and treated as "slow typhoid" or malaria cases, many undulant fever patients died in the past.

"In the future," says Miss Evans, "if there seems to be an increasing number of cases, it will be only because those, heretofore confused, will be classified correctly as undulant fever."

Blooded goats, imported from the Mediterranean, first brought the disease into the United States. Perfectly healthy themselves, their milk was found to carry the bacteria of the fever, prevalent in their native country.

The slow fever spread from the southwestern part of the United States, where the goats were purchased, to other sections of the country. At the same time, a peculiar disease, known as "contagious abortion" or Bang's disease, existed in cattle.

Bacteriologists the world over had attempted for years to connect Bang's bacillus with the bacillus which through goats' milk caused the Mediterranean fever in man.

Wins Her Point.
After years of study on the part of the most eminent scientists, the conclusion was reached that the Bang germ and the Mediterranean fever were different organisms. It took America's Alice Evans to demonstrate the germs were twin brothers. She proved, in spite of their slight difference in microscopic contour, they could and did produce the same disease—undulant fever.

Was it a hunch? It was more than that. She had thought often about the "slow fever" in man that doctors had been in the habit of calling ty-

phoid. She had worked in the Bureau of Animal Industry for several years on the bacteriology of milk. Her mind speculated upon the two milk organisms. She decided to study them intensively, thoroughly.

Then came an interruption—the war. She was transferred by the Public Health Service to its hygienic laboratory, to do "her bit." She undertook a program connected with serums, antitoxins and analogous products, used by the overseas forces.

Hostilities ended, she went back to the problems that intrigued her—the study of the two milk organisms. Going about the thing systematically, she collected strains of the organisms from all over the world. In her tests, she found the two germs are indistinguishable by ordinary bacteriological methods. Their differences are detected only by the use of complicated and tedious tests.

This gave her the clew. She discovered the Bang germ in cows, and the Mediterranean goat milk germ produced undulant fever.

Immediately her observations were confirmed exactly by research experts the world over. Her discovery was pronounced one of the most outstanding in the field of medical science during the past quarter of a century.

But Miss Evans did not rest back on her laurels. Incapacitated for months by the first big attack of the fever she had contracted, she came quietly back to her laboratory and took up the next scientific problem awaiting her.

Tasty Recipes

Pettis Napoleon

- 18 Honey Maid Graham Crackers.
- 2 tablespoons butter.
- 4 bananas.
- 1 1/4 cups custard filling.
- 1/2 cup confectioner's sugar.
- 1 teaspoon vanilla.
- 1/2 cup shortening.
- 1/2 cup sour milk.
- 3 egg whites.

Cream sugar and butter together. Add beaten egg yolks, milk and salt and beat well. Crumble crackers very fine and mix with baking powder and add to sugar-butter mixture. Add vanilla and fold in stiffly beaten egg whites. Turn into two greased layer cake tins and bake in a moderate oven (375 degrees F.) 20-25 minutes. Fill and top with whipped, sweetened and vanilla flavored cream and sprinkle with chopped candied ginger. Makes a 9-inch cake.

Strawberry Pie
12 Honey Maid Graham Crackers, crumbled fine.
1-3 cup butter.
1 tablespoon sugar.
1/2 lb. marshmallows, cut small.
2 cups canned, crushed pineapple.
1 egg, beaten.
Mix crackers, softened butter and sugar, and press in an even layer against sides and bottom of buttered pie plate. Combine marshmallows, drained pineapple, and egg, and pour into cracker-lined plate. Bake in moderate oven (375 degrees F.) 15 minutes. Make one 8-inch pie. Crust-making is to line a pie plate with whole cookies. What could be easier, short of no crust at all?

Fig Newton Pie
Pastry for 1 crust:
2 egg whites.
2 tablespoons sugar.
1/2 teaspoon vanilla.
15 Uneda's Bakers Fig Newtons.
Line pie plate with pastry. Bake in hot oven (450 degrees F.) 12 minutes. Beat egg whites stiff and fold in sugar and vanilla. Break Fig Newtons into small pieces and fold into egg whites. Fill pie shell with mixture. Return to slow oven (350 degrees F.) for 20 minutes. Serve cold. Garnish with whipped cream if desired. Makes one 8-inch pie.

Graham Cheese Muffins
18 Honey Maid Graham Crackers.
1 tablespoon sugar.
1/2 tablespoon salt.
1 tablespoon butter, melted.
1/2 cup milk.
1 egg.
3 ozs. soft package cheese (put through sieve).
2 tablespoons baking powder.
Crumble crackers, add sugar, salt and melted butter. Heat milk and pour over cracker mixture. Add beaten egg, strained cheese and baking powder. Bake in greased muffin pans in a hot oven (425 degrees F.) 20-25 minutes; 12 small muffins.

Graham Cream Layer Cake
1 cup sugar.

HAWAII TEACHES THEM YOUNG



Apparently they start learning the hula as soon as they get out of the cradle in Hawaii. These girls are shown taking part in the annual Lei Day festival in Honolulu. It corresponds to the American Maypole dance. (Associated Press Photo)

- 3 egg whites.
- 1/4 teaspoon salt.
- 28 Honey Maid Graham Crackers.
- 1 1/2 teaspoons baking powder.
- 1 teaspoon vanilla.
- 1/2 cup shortening.
- 1/2 cup sour milk.
- 3 egg whites.

Cream sugar and butter together. Add beaten egg yolks, milk and salt and beat well. Crumble crackers very fine and mix with baking powder and add to sugar-butter mixture. Add vanilla and fold in stiffly beaten egg whites. Turn into two greased layer cake tins and bake in a moderate oven (375 degrees F.) 20-25 minutes. Fill and top with whipped, sweetened and vanilla flavored cream and sprinkle with chopped candied ginger. Makes a 9-inch cake.

WIFE MURDERER MUST PAY PRICE

SAN FRANCISCO, May 18.—(UP)—Leo Dwight Murphy must hang for beating his bride to death in a Long Beach apartment in 1926, the state supreme court held today in affirming his sentence in Los Angeles Superior court.

The conviction of Murphy followed his arrest at Pittsburgh, Pa., in July, 1933, after a seven-year hunt by the law.

Murphy was convicted of beating his wife fatally on November 30, 1926. She died on December 11 that year. Murphy's defense was that he was intoxicated. He said he drank three bottles of bitters the afternoon of the brutal beating of his frail wife. The supreme court denied his appeal.

New Style Hair Cut
CHICAGO, (UP)—Women this year will have their hair cut shorter but in such a way that it will appear longer, Madame Louise, of Dele University of Beauty, predicted tonight. The new style coiffure will be called "illusion."

POLLY MORAN LOSES JEWELS TO BURGLAR

HONOLULU, May 18.—(UP)—Polly Moran, film comedienne, arrived on the liner Maalo in tears today and said a man entered her stateroom.

She didn't mind that so much, said Polly, but the man stole a diamond and emerald brooch valued at \$4,000. She was unable to identify the thief. "I awoke Sunday night," said Miss Moran, "just in time to see a man disappearing out the stateroom door."

KILLS 'EM QUICKER

STANDARD OIL ORONITE FLY SPRAY

MOSQUITOES FLIES-ROACHES ANTS-FLIES ANTS-GNATS

MOTHER, WHY ARE YOU SO CROSS THIS MORNING?
"I'M SORRY, DARLING, A MOSQUITO KEPT ME AWAKE SO LONG LAST NIGHT"

MOTHER, WHY DON'T YOU SPRAY THE SKIRTES AWAY LIKE YOU DO THE FLIES?
"I SHALL, AND THANK HEAVENS OUR SPRAY IS FULL STRENGTH, IT CERTAINLY WORKS"

NEXT DAY
"NO SKIRTES OR FLIES AROUND AT ALL MOTHER, ISN'T IT NICER WHEN THEY'RE GONE?"

Guaranteed FULL STRENGTH

OTHER STANDARD OIL ORONITE HOUSEHOLD PRODUCTS

Your cleanest friend when things look dirty

Spots and stains come when you're not looking. Standard Oronite Cleaning Fluid takes them out before anybody else looks. Cleans garments, upholstery, drapes. Try it!

SELF-POLISHING WAX
Three quality floor protectors: Standard Oronite Self-Polishing Wax (IT SHINES ITSELF!), Standard Waxglu Paste Wax and Waxglu Liquid Wax. For hardwood, linoleum, tile, rubber.

HANDY OIL
Handy Oil stops wear on household machines—keeps them operating smoothly, quietly. Keep Handy Oil always handy!

MANUFACTURED BY STANDARD OIL COMPANY OF CALIFORNIA

FARE REDUCTION OPENS PATHWAY FOR ANNUAL MARCH OF TOURISTS

With the opening of the annual summer tourist season, May 15, by the railroads of the country, the early harvest of one of the Pacific northwest's largest and most important crops is under way.

And this year, according to J. A. Dransky, general passenger agent for the Southern Pacific company, there is every reason to believe the tourist trek to Oregon and Washington will show a substantial increase.

Residents of the northwest, too, are expected to indulge in widespread vacation travel, since the rail lines have announced the lowest roundtrip fares in many years. Air-conditioned cars, which make their own climate to overcome summer heat, will furnish new travel comfort it was pointed out. Faster running times will also be prominent in the improvement program.

Included in Southern Pacific's preparations for the summer rush are speedier schedules and the appearance of a new fast train on the San Francisco-Portland run, beginning May 27. Air-conditioned observation, club, lounge, dining and room sleeper cars will be in use on the company's principal trains, June 1, or shortly thereafter, it was stated.

Sams Valley

SAMS VALLEY, May 18.—(Sp.)—Elmer Wright, who had been ill for several days, was taken to the Community hospital Saturday, where he underwent an operation for appendicitis.

Rev. D. D. Randall of Medford delivered the baccalaureate sermon to the Sams Valley high school graduates Sunday evening. Rev. Randall stressed to the class the importance of giving to the world as well as taking from its wealth and cited the world's most noted men whose characters were based on religion. Other numbers were two songs by the Ladies' club, "The Bitter With the Sweet" and "Give of Your Best to the Master"; scripture reading, songs, "Come Thou Almighty King" and

Dean Bartlett Cronwell is spending his 25th year as a University of Southern California coach this spring grooming his track and field team for national championships which they have dominated in recent years.

Funeral of Mrs. Walter Marion, who passed away Friday, was held Monday at Medford, with burial in the Sams Valley cemetery. Mrs. Marion was a sister-in-law of Mrs. Jim Crawford and Mrs. Jim Crawford.

Misses Grace and Ruth Bigham closed a successful term of school in the Derby district Friday, where they have taught for the past several years. Mrs. Edwin Morgan is steadily improving from her recent severe injury. She is in the Community hospital, but hopes to return home soon.

Mrs. Albert Straus underwent an operation for appendicitis at the Community hospital last week, from which she is recovering satisfactorily.

Dean Bartlett Cronwell is spending his 25th year as a University of Southern California coach this spring grooming his track and field team for national championships which they have dominated in recent years.

Ask for S. & H. Green Stamps — Added Savings for You!

M. M. Department Store

Celebrating Jubilee Days SATURDAY SPECIALS!

WASH DRESSES

Printed voiles, pretty styles for street or home wear. Cool and summery. **\$1.00**

Printed Cotton Dresses

Prints, voiles, and organdies, dainty snappy little styles for summer afternoons. Cool and refreshing for these warm days.

\$1.49 and \$1.95

SILK DRESSES

Two For the Price of One.

Printed summer and spring silks. A good run of sizes. Regular price as high as \$8.95.

Special Saturday Only

Two for \$9.00

BASEMENT BARGAINS

Dress Prints
36-inch, fast color. Your choice of these fine selections of patterns. **15c per yd.**

Plisse Crepe
36 inch, plain or fancy **25c per yd.**

Mission Sheeting
81 inch. Half bleached or bleached. **39c per yd.**

Cheviot Shirting
27 inch. Plain colors or striped **10c per yd.**

Children's Shoes
White. Straps or ties. **\$1.19 to \$1.69**

Women's Shoes
White. Pumps, Ties or Sport style. All sizes. **\$1.98 to \$2.98**

Work Shoes
Men's. Plain or pac toe. Black Elk Blucher uppers **\$2.45 and \$2.98**

Washington State college has its eye on the northern division Pacific coast conference baseball championship this season, with 11 lettermen back for duty.

Alabama conservation authorities estimate there are enough wild animals and fish in that state to make it interesting for 200,000 hunters and 300,000 anglers.

STRAWBERRIES are plentiful NOW

Make Perfect Jam and Jelly!

Now is the time to put up strawberries! It is so easy with PEN-JEL. This pure fruit powdered pectin makes even fully-ripened berries jelly, yet adds nothing to, nor detracts from the natural color and flavor. Even if you've never cooked before, the simple cup-for-cup method, plus PEN-JEL, eliminates the worry and failures!

NEVER FAILS

15¢
MAKES EIGHT GLASSES

At Your Grocer's

OREGON'S DIAMOND JUBILEE
Medford, Ore.
JUNE 3RD TO 9TH-1934

PIECE GOODS

Cotton Dress Materials

A whole big assortment of printed bastides, dimities, voiles and flaxons. Sheer and cool for dainty summer frocks. Special for the fast of Cotton Week.

25c per yd.

Broadcloth and Seersuckers

Striped materials in attractive color combinations. Most desirable for sport dresses.

49c and 69c

Organdies

Printed and plain pastel shades and fancy weaves in all white. Adorable for special occasion dresses.

49c and 59c

McCall Patterns

Patterns up to the minute in style, easy to use and give complete instructions. Shows how to use lace trimmings and rufflings in attractive ways.

Women's Summer Shoes

Women's White Shoes, snappy styles in pumps, T-straps and oxfords.

\$2.45 to \$3.95

Men's Sweaters

Brushed wool, pull over style and zipper front.

\$2.95 and \$3.45

Men's Slacks

Flannel slacks in tan or light grey.

\$2.75 and \$3.75

HUNGRY?

Try One of These

BISMARCKS

They satisfy your craving for a Delicious Sweet. Raised sweet dough with jelly centers. They're Irresistable

21¢ DOZEN—SATURDAY
At your favorite food store

The next time you buy bread ask for a loaf of **Beck's Corn Bread** It's a New Bread Treat

BECK'S HOME OWNED BAKERY