

## SURVEYORS, HIGHWAY HEADS, CONTRACTORS GO TO ROAD SCHOOL

LAFAYETTE, Ind., Jan. 23.—County surveyors, highway superintendents, road contractors, engineers, city and county street commissioners from throughout Indiana met here today to attend the opening session of the eighth annual road school at Purdue university. These men will spend the week making an intensive study of highway construction, maintenance and other road problems and getting the latest information from road building experts throughout the country.

The program opened today with addresses of welcome by Dean A. A. Potter and Prof. R. S. Wiley of Purdue and responses by Lawrence Lyons, director of the State Highway commission; David C. Sheetz of Fowler, president of the Highway Superintendents' association; J. P. Johnson, president of the County Surveyors' association, and A. M. Fudge, treasurer of the City Street Commissioners' association.

H. K. Bishop, chief of the division of construction of the U. S. Bureau of Public Roads, spoke on the relation of the federal government to the states in road building programs. C. Gray, chief engineer of construction of the Indiana Highway commission, then spoke of the road program for Indiana this year, and told of the policies to be pursued. The program will continue throughout the week with topics of interest to the road men.

## WILLIAMS TO ATTEND RUSHVILLE MEETING

Charles Williams, county superintendent of schools, announced Monday that he would attend the Sixth District meeting of county superintendents, to be held in Rushville, Feb. 14 and 15. He will speak on "Better Buildings and Equipment," at a round table discussion to be held on the morning of Feb. 15.

The afternoon of Feb. 14 will be spent in visiting and inspecting schools. A state inspector will accompany the party. In the evening the superintendents will have dinner together and will conduct a round table discussion, led by one of the state school inspectors, on the observations made during the afternoon, the elements constituting good teaching, and the factors in good supervision.

A new telephone without a mouth-piece is called the laryngophone. The transmitter and receiver of the instrument are placed against the speaker's throat.

## Gassing the Bugs

By FREDERICK J. HASKIN

WASHINGTON, D. C., Jan. 23.—That the airplane, together with some of the instruments for the use of poison gas and liquid flame, may be successfully used against insects, which are man's worst enemies, next to himself, seems to be indicated by experiments which have been conducted here and there.

The most successful experiment, and that upon which the high hopes seem to be based, was the spraying of a grove of ornamental trees in Ohio from an airplane, which completely destroyed the caterpillars infesting the trees at a single flight. The material used was calcium arsenate carried in a hopper below the plane. As the machine passed over the trees it heavily dusted with poisonous material a belt of land 600 feet wide. It is reported that 99 per cent of the caterpillars were killed and that the ground after the attack was literally covered with the dead.

Now the department of agriculture is at work on a plan for the use of the airplane in fighting its ancient enemy, the boll weevil. Millions have already been spent by the Government in its fight on the weevil, and billions have been lost by reason of the fact that the boll weevil has not been destroyed. The boll weevil has for generations literally been eating the shirts off our backs and tires off our cars—for cotton as much as rubber is the basis of their construction.

**The Weevil Army**  
The problem of fighting the boll weevil would seem in some respects much like that of checking an army. The boll weevil advances slowly along an immense front. The difficulty is to cover that whole front at one time, so as to check the advance effectively. Presumably, if the advance could be checked the enemy could be destroyed, but eradicating the weevil here and there does no permanent good if he is spreading in other places. Thus the government cannot well put a large enough army in the field to check the weevil all along his advancing front at once by hand spraying. The individual planter does what he can, but what between the boll weevil and the fluctuating price of cotton he often lacks the funds to do the work. One planter may spend \$15 an acre in intensive spraying, and clean the boll weevil out of his farm. But his neighbor may be a poor tenant farmer who cannot afford to spend even \$6 an acre which is necessary if any crop is to be made at all. So the weevil, checked at one place, advances at another.

The plan sketched out by the government calls for a series of airplane stations reaching clear across the cotton belt on the boll weevil front. When you realize that a single plane flying across this front might destroy the weevil completely over a swath 600 ft. wide, and when you reflect how much time and how many men it would take to do the same work by hand, you get some idea of the possibilities of the new method. But it has its difficulties, too. The spraying, to be effective, must be done at night when the dew is on the plant, it seems. The air service, however, seems to be prepared and willing to undertake the work under these conditions.

Then again, the expense will be heavy. Calcium arsenate costs about 10 cents a pound, and enormous quantities of it would be necessary for this lavish method of distribution. There is no doubt that the work would far more than pay for itself in the cotton it would save.

Here, as in so many other ways, the clumsiness of modern industrial and governmental methods comes in. The trouble is that the saving cannot be applied to the cost of the work. If the work is to be done by the government, it must be paid for by the taxpayer. But the taxpayer feels that he is already being taxed enough, chiefly to keep up the army and navy and pay war debts, and if he has an ounce of sense he knows that the saving of this cotton is not at all sure to reduce the price of a cotton shirt for him. As for the planter, he wants the boll weevil exterminated badly enough in order that his whole living may not be eaten up by the pest, but its complete destruction does not mean any certainly increased income to him. In fact, a large cotton crop is apt to mean a low cotton price for the farmer, so that he really cannot afford any extra large investment in this work.

**How Science is Blocked**  
These same obstacles, rooted in the stupid inefficiency of industrial organization and political government, are found blocking the path of numerous projects for the furtherance of man's control over nature. Science devises a solution of the problem, but industry and government seem designed to obstruct putting the solution into effect. The fact of the matter is that, while the physical science have advanced

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## Bonus



The utilization of the foreign debt as a bonus for war veterans is embodied in a bill sponsored by Representative J. W. Husted (above) of New York.

steadily since the Middle Ages, trade and governmental methods remain medieval in many respects. Our methods of regulating commerce, our diplomacy and our wars, for example, are all essentially medieval.

We cannot stop to elaborate this important idea, because this is a story about bugs. The point is that the airplane if properly developed, may well give us control over many kinds of insects which are now getting the best of us. Of course, the insects are slowly getting the best of us everywhere, and many scientists, especially entomologists, see life as a battle for supremacy between men and insects. Insects devour our crops and our forests and carry many of the deadliest



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diseases. The mosquito and the boll weevil, the Hessian fly and the gypsy moth and a long list of other insect pests are man's most serious enemies. The insects have the enormous advantages of being very small, very numerous and very prolific. We cannot destroy them one by one as we do our other natural enemies. The insect problem was admirably posed by that friend of the human race, who some years ago, advertised a positive method of destroying potato bugs. He sent to inquirers, for one dollar, two small blocks of wood with instructions to put the potato bug on one block and hit him with the other.

What man must do, to save his crop

and his life, is to invent means of destroying insects wholesale. Swat-the-fly campaigns are as ineffectual as the above potato bug masquerade. On the other hand, mosquitoes have been successfully destroyed by flooding their breeding places with oil.

The airplane can undoubtedly destroy wholesale many kinds of insect pests, if science can only get in this instance the support it needs from government and industry.

Your grocer might be asleep—waken him with a request for your sample of Blue Devil Cleanser.

—Advertisement.

**JOFFRE VISITS JAPAN.**  
TOKIO, Jan. 23.—Marshal Joffre, of France, accompanied by his wife and daughter, arrived at Yokohama Sunday on the cruiser Montcalm and proceeded immediately to Tokio for a three week's visit. He is returning Crown Prince Hirohito's visit to France.

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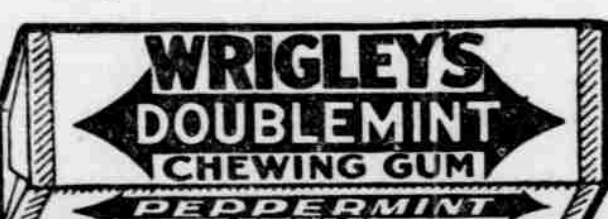


This peppermint flavored sugar coated gum is a delight to young and old.

It "melts in your mouth" and the gum in the center remains to aid digestion, brighten the teeth and soothe the mouth and throat.

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## KLUTE'S DOLLAR DAY

—and January Clearance Sale

Coming as it does in the midst of our Big January Clearance Sale, Dollar Day at Klute's has a greater significance than it probably would ordinarily have because it not only affords an opportunity at the special Dollar Days items, but also all the items included in this big savings event.

Children's Outing Flannel Sleepers and Rompers, regular 59c and 69c garments—while they last, Dollar Day, 25c each; 4 for..... **\$1.00**

## DOLLAR DAY ITEMS

Men's Leather Work Gloves, good 79c and 89c values; Dollar Day—  
2 pairs for..... **\$1.00**  
36-inch Bleached Muslin, regular 16-cent value; Dollar Day—  
10 yards..... **\$1.00**  
Boys' School Trousers, sizes 7 to 15 years, worth to \$1.19; Dollar Day, 2 pairs for..... **\$1.00**

Ladies' Black Fibre Silk Hose, Dollar Day, 2 pairs for..... **\$1.00**  
25x36-inch blue bordered Turkish Towels, very heavy; Dollar Day—  
two for..... **\$1.00**  
Men's good heavy Khaki Pants, regular \$1.49 value; Dollar Day—  
per pair..... **\$1.00**

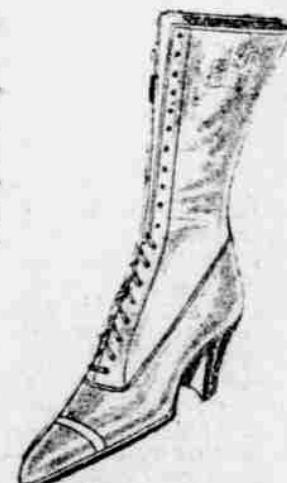
## Dollar Day Specials in the Shoe Department

### Odd Size Shoes for Women

Ladies who can wear small-size Shoes should come and take advantage of this special offer for Dollar Day only. In grey kid, with cloth top; patent vamp, with cloth top, and a number of all-black kid boots, in military and Louis heels. Sizes from 1½ to 5; values to \$6.00. Special—

### Children's Shoes

Mothers, bring your children for a pair of these shoes. Read the number of styles carefully and then come and be convinced: Black kid or gun metal lace, all-white kid button, all-patent leather button shoes, and a number of different other styles; sizes 3 to 8. Values to \$2.98. Dollar Day, special



**\$1.00**

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