

### Police Are Ready; Nothing Happens

With every policeman on the Birmingham force ready for action last Wednesday night, prepared for the usual pre-Tanksgiving Day football game disturbance, little happened. However, there was plenty of action at Royal Oak!

Young Birmingham performed with the utmost decorum, mindful that a repetition of the usual riot might lead to an end of the traditional gridiron series between the two schools. At least that's the way school authorities had put the proposition, in asking for cooperation.

However, there was one arrest. Howard Atwell, 18 years old, of 165 Townsend, was taken into custody following an egg at a restaurant opposite the Birmingham Theatre. He told officers that he expected the usual game disturbance. When none showed up, he decided to get rid of his ammunition. The youth has not yet appeared in court.

In Royal Oak, all was not so quiet. Three cars were reported to be stuck on busy corners, and several cars damaged in a minor way. However, the evening was tame compared with the riot in 1939, police said.

### YOU can learn to fly... No. 10

FLYING LEAGUE OF AMERICA

**LOOPS**  
FROM ABOUT 100 FT. ALTITUDE AT ABOUT 125 M.P.H. IN TRAINER.  
KEEP WINGS PARALLEL TO HORIZON AT ALL TIMES.  
PULL STICK FULLY BACK AND OPEN THROTTLE TO CRUISE SPEED.

**ROLLS**  
DIVE TO GET SPEED TO ABOUT 150 M.P.H. THEN PULL STICK BACK AND KEEP THROTTLE OPEN TO MAINTAIN SHALLOW CLIMB.  
EASE RUDDER AND PUSH STICK FORWARD TO KEEP NOSE UP.  
RIGHT RUDDER AND STICK BACK AND RIGHT.  
BACK TO LEVEL FLIGHT.

**THROTTLE**  
NOT AS BAD AS YOU THINK IT WAS!

**FIRST WOMAN TO SOLO ACROSS ATLANTIC**  
MRS. BEATRICE BENTLEY  
ARRIVED AT 10:30 P.M. NOV. 20, 1932. SHE WAS 35 YEARS OLD AT THE TIME.  
SHE HAD A 10-HOUR FLIGHT AND A 20-HOUR FLIGHT AT 14 HRS. AND 30 MIN. LATER.

### Build Wood Model As First Step In Making Tanks

DETROIT—Suppose you had to build tanks for the Army, huge twenty-five tonners, nine feet high and eighteen feet long. Each had to be as powerful as a locomotive and engineered as delicately as a Swiss watch.

Now, would you first take time to build a life-size, working model out of wood?

An automobile manufacturer faced with a major defense assignment, did just that, as a check and double check on \$100,000 worth of preparatory engineering work that kept nearly 200 men poring over plans and blueprints from early morning till nearly midnight for weeks on end.

Essential part of the tank order was to provide a plant capable of turning out these "land battleships" in volume day-after-day, five each in an eight-hour shift, or

as many as 14 daily in three-shift operation. That meant a new plant laid out for maximum production efficiency, it meant new specialized machinery designed to turn out the many powerful, elaborate parts that go into each of the thousands of passenger automobiles and trucks making up a day's production.

Hundreds of detailed drawings—a bundle of blue-prints weighing not an ounce less than 186 pounds—outlined down to the minutest detail the way the Army experts of Rock Island arsenal wanted the tanks built.

From the specification data thus made available the production men and engineers of the automobile company had to develop the machinery requirements and plant layout—a program ranging from armor-plate to transmission gears—in such shape that months later, when millions of dollars of equipment had been assembled, the tanks that rolled off the line would be ready to go.

Need Absolute Check  
With so much at stake, an absolute check on accuracy of the designs for each part was essential. The blueprints had been developed to varying scale depending upon

the part involved. Some were full size, some half, some quarter scale. So the order was given; build a tank, out of wood.

Pattern makers took the Army blueprints off to the pattern shops, and quickly carved each portion of the tank in wood to the specified measurements. Varnish, sanded and varnished again to satin smoothness, the parts were brought together and assembled.

So exact was the arsenal's draftsmanship and machining accuracy that the parts went together "without scratching the paint."

These preliminary steps revealed that the designed parts would mesh perfectly, that it would be unnecessary to change necessary dimensions, that no time would be lost in reworking metal or refitting parts when production got underway.

### Microscope Enlarges 30,000 Times Size

ANN ARBOR—Scientists at the University of Michigan will soon be able to magnify small objects to 30,000 times their natural size, through the use of an electron microscope recently purchased with funds granted by the Horace H. and Mary A. Rackham funds.

The new microscope is six and one-half feet high, and is built into a pillar-like unit containing its own power supply. Although operated essentially on the same principle as the ordinary microscope, the new device utilizes beams of electrons, small particles of matter, instead of light, and magnetic lenses instead of glass lenses.

It is related that while a couple of schoolmarm were traveling in Canada, they stopped at a hotel one evening and the fussy one of the pair left her room to locate the means of escape in case of fire during the night. In the corridor she pushed open a door and found herself in an occupied bathroom. To the man in the tub she exclaimed, "Oh, I beg your pardon, I'm looking for the fire escape."

She continued her search, when presently she heard someone coming along behind her. On turning she saw the bather, clad in nothing but a towel. "Where is the fire?" he asked excitedly.

### Voltaire Foresaw Invasion Difficulty

Difficulties to be encountered by any power attempting a land invasion of England were analyzed nearly 200 years ago by the celebrated French writer Voltaire. An unpublished letter uncovered by Wayne University Prof. Andre Delattre revealed this week.

Writing at the time of our French and Indian war, when a force was being organized in France for a coastal invasion of the island, Voltaire objected to a friend: "I regret very much the money which is going to be used for the landing. Three miracles are necessary so that it should succeed. The first one is that the landing forces may be allowed to get ashore. The second one is that they should remain in England any time at all without being exterminated. The third one is that they should get back."

The letter, dated November 12, 1759, is one in a group of hundreds of unpublished Voltaire letters brought to light in the library of Geneva, Switzerland, last summer by Dr. Delattre, who was engaged in research under terms of a Rackham Fellowship from the University of Michigan. Because of the richness of his find he remained on the continent, despite war threats, obtaining complete typewriter and photostatic copies of the collection. He returned to Wayne in September, after obtaining transatlantic passage from Lisbon.

Many of Voltaire's comments upon the war of his day might have force and meaning if made by one of his countrymen this autumn. He complains bitterly about shortages of coffee and sugar, two of the staples said to be almost entirely lacking in unoccupied France today, and adds in rueful retrospect: "One must be provided with everything for several years ahead when one is at war with England."

Spain to Show Hand  
"It seems to me evident that Spain is going to declare herself," he says in another letter. "My reasons are founded on its being a favorable moment, on the affronts which the British have done to the dignity of the Spanish government, and on the indignation of that government at seeing

### Gene Tunney Next On Fisher Series

Gene Tunney, undefeated heavyweight champion of the world, friend of boys and crusader against the "isms" which he believes are now threatening America's young people, will speak before the Detroit Town Hall in the Fisher Theatre Wednesday, Dec. 4, at 11 a. m. on the subject, "American Youth."

### Any Old Porch In A Storm

Early season blizzards caught many birds unawares, forced this sparrow to take refuge on a porch in Omaha, Neb., where he was partially shielded from cold and snow. He refused to let the presence of a mere photographer drive him back into the blizzard.



# LAST WEEK OR THIS WEEK

America and Birmingham Have Enough to be Thankful for on Both Occasions

## Birmingham Is Thankful For Your PATRONAGE—

BIRMINGHAM merchants, who share with every citizen the best interests of this community, are united in their belief there is no better time than this to express their thanks and appreciation for the business you have given them. Fully aware that their success is made possible through your patronage and the patronage of your friends, every business establishment in Birmingham is making every effort to deserve your business. To provide your every need, they have assembled large stocks from the best known source, and prices have been pushed to the lowest point at which merchandise of quality can be sold. In fact, Birmingham merchants are doing everything within their power to make this market attractive for you.

You will find here most every advantage offered by any other city, and many advantages not offered elsewhere. Friendly modern stores equipped to serve you efficiently and economically, and here you will also find a ready market for the things you have to sell. Add to that the welcome that always greets you in Birmingham, and you can readily understand why this friendly community enjoys such a fine reputation in this section of the state.

There is no better time than Thanksgiving to become a regular customer in Birmingham, for the advantages to be secured will make you always thankful! As you make your purchases in Birmingham, you will profit and the community will prosper.

## But It's True!

UNDER FEDERAL LAW IN 1936 THE DETROIT CONFERENCE WHO HAD HELD AS HIGH A CONFEDERATE RANK AS COLONEL AND NONE WHO HELD MODERATELY HIGH AS MUCH AS \$2,000 COULD VOTE...

Murkitt was walking across a bill when a sudden gust of wind threw his shoulder out of joint. The Trougnac river, narrow and short, passes through a series of grape arbors. At that point there is a rapids. The grapes are so great in number that the volume crushed on the rocks turns the river to the color of wine. The taste is actually that of grape-juice.

# BE WISE! ECONOMIZE!

## Get Your Share of the Bargains to be Found Every Day in Birmingham

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