

## APES TAUGHT TO EARN AND SPEND MONEY

Yale Laboratory Primates Distinguish Good From Bad 'Coins.'

**By Science Service**  
NEW HAVEN, Sept. 28.—You don't have to have all your brains to handle and use money. This is the conclusion that might be drawn from experiments with the famous monkeys and apes at Yale who have been taught to earn varicolored chips and then spend them for food delivered to them by automatic vending machines.

These "financier" apes and monkeys have aided in a new experiment, designed to explore further the mechanism of the brain. Drs. C. P. Jacobsen and J. B. Wolfe of Yale's laboratories of comparative psychology have reported that even after injury has deprived the apes of what the scientists call the "frontal association area" of the brain, they retain some of their financial ability.

**Can Distinguish 'Coins'**  
They can earn money. They can distinguish valuable "coins" from worthless ones. They spend their wealth for food at automatic vending machines appropriately called "chimpanzees."

A financier or banker so unfortunate as to suffer a lesion of his frontal association brain area might be able to go on as usual spending his money. The ability to recognize the value of money and to exchange it for valuables is one which survives even in the face of a lack of this important part of the brain. But he might easily be cheated. For, like a young child, he might not know the difference between nickels and dimes.

The injured banker would suffer a loss of memory of events in the immediate past, it appears from Dr. Jacobsen's experiments on primates, which were conducted with his associate, Dr. Wolfe.

**Healthy Memories Best**  
The animals were allowed to watch the experimenter hide a coveted morsel of food or a "coin" which they could later exchange for food under one of two cups. If they were released immediately, they would practically always go immediately to the correct cup and secure the reward. But if they were held in check for even so brief a time as two seconds, they would have forgotten which was the right cup. Healthy animals can remember where to look for as much as five minutes.

Similarly, the injured animals were able to reach out of their cages, secure a stick for a tool, and with it draw in a banana which lay temptingly just out of arm's reach. More than that, when the treat was farther away, they could use the stick to reach for a longer one and then make use of the longer stick to get the food. But when the food was placed outside one end of the cage and the stick outside the other end, the problem was too much for them. They could not keep in mind the location of the food long enough to go to the other end of the cage for the stick.

**Similar to Senility**  
Nevertheless, the memory of how to use the stick, and how to perform the complex trick of taking a coin and placing it in a slot machine to secure food, were retained. The apes were even able to select a yellow chip which would buy them a piece of food in preference to a green one, which was the "lead coin" of the experiment and had no exchange value. They forgot, however, a previous ability to choose a red chip which would buy two pieces of food in preference to the yellow one with half the value.

The association area of the frontal lobes of the brain are thus shown to be essential to the ability to keep in mind more than one aspect of a problem while handling them to obtain a solution, and necessary for memory of events of the immediate past. Dr. Jacobsen concludes. The memory of long past events and well-learned habits are retained even after the loss of this brain area. The situation of the injured animals is somewhat parallel to that of the old persons suffering through senility from a "loss of memory." Reminiscences of early childhood and ingrained habits are often retained very well indeed, although the person can not recall what day of the week it is or where he laid down his spectacles just a moment ago.

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## HOLES IN TIMBER HID RANSOM HOARD



The carpenter's ingenuity was exhibited by Bruno Hauptmann in making this place of concealment for \$340 of the Lindbergh ransom money found in his garage in Bronx, N. Y. This closeup picture shows how bills had been hidden in holes drilled into one of the garage timbers. The little 25-caliber automatic was concealed in the slot at left, made by joining three auger holes. Police had searched the garage for nearly a week before finding the cache.

## Art Gallery Will Open on Monument Circle Monday

Best Works of Old Masters Among Arthur Zinkin Collection Will Be Exhibited, Is Promise.

An art gallery is to be opened Monday on Monument Circle, at the East Market street corner, in which will be displayed the paintings of a large number of the old masters, it was announced today.

The collection, assembled by Arthur Zinkin of this city, has been acquired from several important sources, and includes examples of the celebrated artists of the English, Dutch, French and Italian schools.

The collection comprises paintings by Thomas Gainsborough, Sir Joshua Reynolds, Sir Thomas Lawrence, Raeburn, Phillips, Northcote, Titian, Velasquez, Van Dyck, Rembrandt, Clouet, Goya, Fragonard, Romney, Watts, Hoppner, Abbott, Harlow and many others.

The collection has been acquired by Mr. Zinkin over a period of several years, and the examples of the works of the masters have been selected with great care.

Most of them have graced the walls of noble houses in Europe, and some the palaces of royalty. The site of the gallery, on the north side of the East Market street corner of the Circle, an extension of the quarters now occupied by Mr. Zinkin in the Meridian Bookshop.

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## PARIMUTUEL BETS MAY DISAPPEAR IN TEXAS

Nominee for Governor Declares Against Race Provisions.

**By United Press**  
AUSTIN, Tex., Sept. 28.—Legalized horse racing with parimutuel bets may be short lived in Texas. It returned to the state a little more than a year ago, with parimutuels substituted for the old time bookmakers.

James V. Allred, Democratic nominee for Governor (and Democrats are always elected in Texas) declared for repeal of the betting provisions of the race act.

Track owners blame the dissatisfaction on laxness of local officers in permitting bookies, barred from tracks, to operate generally.

Merchants joined in protests. Money that would have been spent with them, was bet on the races, they complained. To appease them, track owners at San Antonio have cancelled a pre-Christmas meet.

## YOUTH DIES IN \$10 CAR

Death Follows Purchase of Auto by Few Hours.

**By United Press**  
CONNEAUT, O., Sept. 28.—A few hours after he had purchased a used automobile for \$10, John W. Mansfield, 18, North Kingsville, was killed when it plunged off the road.

## 2 Army Deserters Admit Guilt, Draw 12 Terms

Melvin Blanton, who escaped in a desperate flight from Governors Island, New York military prison, this spring, pleaded guilty to robbery and grand larceny charges and was sentenced to twelve years in the Indiana state reformatory by Criminal Judge Frank P. Baker today.

Charles Hamilton, also a military fugitive and an accomplice with Blanton in the holdup of the Peacock Inn here in August, pleaded guilty and was given a similar sentence.

Blanton grinned broadly upon receiving the sentence and was laughing as he walked out of the courtroom. Theodore Hulbert, also held as an alleged member of the gang, pleaded not guilty. Trial date will be set later.

The three were arrested here for a minor traffic violation and were recognized as military fugitives in the police lineup the next morning. Blanton escaped from the military prison by slugging a guard with the aid of an accomplice, believed to have been Hulbert, and fleeing across the river in a rowboat.

## FOREST PRIMEVAL SET ASIDE IN WASHINGTON

Primitive Conditions to Prevail in 801,000-Acre Tract.

**By Science Service**  
WASHINGTON, Sept. 28.—"Forest primeval" conditions are to be preserved strictly and forever in an area of 801,000 acres in the northern part of the state of Washington, newly set aside as the Cascade Primitive Area, by F. A. Silcox, chief of the United States forest service. This region, considerably larger than the state of Rhode Island, will have its rugged picturesqueness inviolate against the building of hotels or cabin colonies, and even of roads.

Primitive areas, of which the new Cascade region is the latest and largest, are purposely kept without man-made improvements and held for the dual purpose of scientific study and recreation by those who can live in the wilderness on its own terms.

## TANK TRAIN PROVES SOLUTION TO DROUGHT

Missouri's Orchard Kept Wet During Hot Spell.

**By United Press**  
BROWNSVILLE, Neb., Sept. 28.—Undaunted by the drought which laid waste to adjoining orchards, J. L. Stivers, Brownsville orchardist, set about maturing his peach and apple crops in the face of adverse conditions.

Stivers found the solution to hot wind storms, dust storms and drought in a tank train operating between the nearby Missouri river and his orchard, one of the largest in the state. Two ten-men crews, working day and night, poured fifty to sixty loads of water on the trees every ten hours. Six hundred gallons of water were hauled each trip.

The peach trees were given more than twice as much water as were the more hardy apple trees, Stivers said.

## HOMESTEAD IS STARTED

Construction of New Deal Project Gets Under Way.

**By United Press**  
NEDERLAND, Tex., Sept. 28.—Construction of the first Beaumont Gardens homestead, a federal government New Deal project, has started two miles west of here. The first dwelling to be erected was a four-room structure.

## WALTHAM PLANS FETE

Watch City to Celebrate 100th Birthday in October.

**By United Press**  
WALTHAM, Mass., Sept. 28.—Chicago is not the only city to have a Century of Progress. Waltham, the watch city, has planned for a Century of Progress in October, at which time it celebrates its centenary.

## MILLION-DOLLAR TROLLEY BUILT AS EXPERIMENT

Professor Evolves Street Car Rider's Dream Following Long Research.

**By Science Service**  
CLEVELAND, Sept. 28.—A new street car representing four years of research and a million dollars in cost was on exhibition here today. The car is a street car rider's "dream" of the millennium. Every remedial annoyance incidental to transport by urban electric car has been removed.

Forced ventilation is supplied, the seats all face forward and are of the familiar motor bus type; deep, soft and upholstered at side and back in leather. The windows really move; not by two-handed brute force with the help of a crowbar, but like windows in automobiles. The first high step getting into the car has been replaced by stairs like those of the home. Wherever one stands in the car there is a hand-rail or grip so near that not even one step is necessary to reach it. Lighting is indirect and provides three times normal street car illumination, without glare.

Noise is diminished within the car by replacing steel coiled springs with rubber pads. The wheels are resilient; a combination of steel and rubber so designed that they transmit less vibration and noise than formerly.

## Obtained Riders' Views

Construction of the car was in the hands of Professor C. F. Hirschfeld, nationally known engineer and chief of the research department, Detroit Edison Company. He had had, however, no experience in designing street cars. Starting "from the ground up," his first thought was to talk with many street car riders and find out all the things about this form of transport which they did not like. Afterward he went to the electric railway companies, studying economical operation, and finally to the manufacturers to have the many ideas worked out.

The new street car will accelerate about twice as rapidly as has been customary. Yet it can do this far more smoothly than do present street cars.

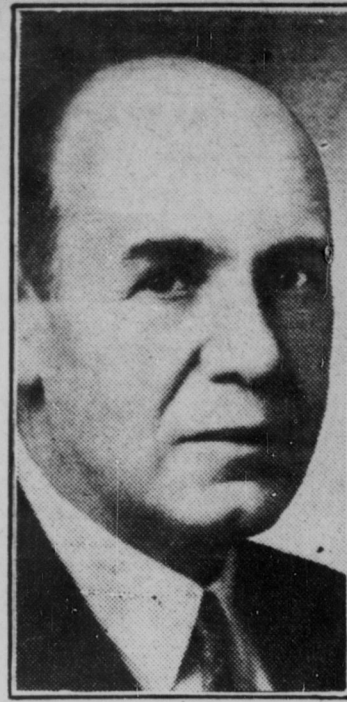
Not only will this improved speeding up decrease the running time for a multi-stop route, but engineers believe it will reduce accidents.

## Boasts Fast Getaway

At present, it is explained, automobiles can accelerate faster than a street car from a standing start. As a result, drivers like to cut over to the car tracks in front of the car as both get under way.

With faster acceleration in the new car, 10 per cent more than that possible in automobiles, it is believed motor cars will be unable to cross over to the tracks because the street car will already be there.

## SEEK GOVERNOR CHAIR IN NEVADA



Morley Griswold



Richard Kirman

Nevada's acting Governor, Morley Griswold, is the Republican candidate for a full term as chief executive, having won in the recent primaries. He will be opposed in the November election by Richard Kirman, Reno banker, named as the Democratic standard bearer. Griswold, a liberal, became Governor after the death of Governor Frederick Balzar. He is an Elko attorney.

## Relief Agency Prepares Program of Recreation

Centers to Be Developed for Use of Unemployed Throughout State, Coy Announces.

A program to develop recreation centers throughout the state for the unemployed, and, at the same time, provide work for capable recreational leaders, will be put into effect in the near future, Wayne Coy, director of the Governor's unemployment relief commission, announced today.

## PIGS STOLEN BY EAGLE

Farmer Surprised by 'Thief' Dropping from Sky.

**By United Press**  
DANBURY, N. H., Sept. 28.—Arthur Hollenbeck's baby pigs were being stolen, and so he decided to sit up all night and watch for the culprit.

He was astonished to see the thief swoop out of the sky. It was a giant American eagle, followed by six eaglets. The eagle grabbed a pig and flew away, with the eaglets close behind.

## SHARK GETS FREE MEAL

Sea Monster Steals 50 Pounds of Fish from Anglers.

**By United Press**  
BRANT ROCK, Mass., Sept. 28.—A 200-pound, seven-foot shark sought the easiest way to get his meals and got a sound padding. The shark, attacking the fishing nets and boat of Fred Keene, got away, however, with a fifty-pound catch before he was beaten off with oars.

## MONACO PARLEY SEEKS TO CURB HORROR OF WAR

Cities of Refuge and Zones for Medical Work Are Proposed.

**By Science Service**  
WASHINGTON, Sept. 28.—International mercy, to relieve at least a little the horrors of international war, is sought in a series of five proposals issued by a convention held some time ago in Monaco at the invitation of the present ruler of that tiny but famous state, his serene highness, Prince Louis II. The proposals take practical cognizance of two conditions characteristic of modern war: First, the fact that in a more closely interdependent world a war is the concern of neutrals almost as much as it is of the combatants; second, the disappearance of "the rear," thanks to airplanes and the return of the warfare of movement on the ground which mechanization of armies makes possible.

The first recommendation of the Monaco convention calls for the establishment of medical towns and medical zones, either at the rear or the front, to be accorded special protection on condition of being directed exclusively by the medical service.

Allied to this is the fourth of the convention's recommendations, for the establishment of similar immune towns, to which women, children and men of nonmilitary age would be evacuated. This is regarded as "beyond doubt the most important part of the project."

These two proposals are in a way reminiscent of the "cities of refuge" established in ancient Israel, as described in the twentieth chapter of the Book of Joshua and elsewhere in the Old Testament. To these cities hunted men might flee, and under certain conditions might remain there in safety. Carried over into Christendom, the right of sanctuary survived through turbulent middle ages.

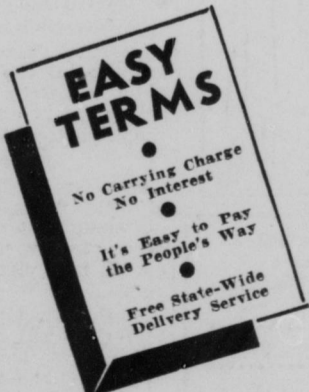
The proposed modern cities of refuge would revive this beneficent ancient practice, and extend it tremendously, as indeed is necessary if it is to offset effectively the vastly larger-scale cruelty of which our advanced and enlightened civilization is capable. In them the rulers would be the priests of modern healing, instead of the sons of Levi or the ordained of the church.

The other recommendations of the Monaco convention call for a considerable extension of medical aid by nonbelligerents, such as the Red Cross has offered in the past; the tending of sick or wounded prisoners of war by physicians of their own nationality wherever possible, or failing that, by medical services of neutral nations; and finally a mechanism for bringing violators of the convention to book by appeal to the permanent court of international justice and refusal of medical assistance by neutral countries.

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