

Race Entries,
Saturday

**Dietz on Science—
GASOLINE, ONCE
WASTE, NOW IS
'GOLDEN FLUID'**

**Invention of Auto Solves
Big Nuisance' for
Early Distillers.**

BY DAVID DIETZ
Scraps-Howard Science Editor

The twentieth century child, born in the midst of the automobile age, will find it difficult to believe that there ever was a day when gasoline was regarded as a waste product.

But forty years ago there were only four automobiles in the United States, Gustav Egloff, chemical engineer of Chicago, tells us, and gasoline in those days was just something that nobody wanted.

"From 1859 to about 1905, gasoline, always present in crude oil, was a nuisance to the refiner," he says. "He was at his wits' end to get rid of it. He ran it into streams, rivers and lakes until the law called a halt due to the many resulting fires. The unscrupulous dealer adulterated his kerosene with the worthless stuff, resulting in many disastrous lamp explosions."

"In 1871, in New York City, the great chemist, Prof. Charles F. Chandler, discovered that there were kerosenes being sold which were pure gasoline. Again the law intervened and drastic measures were taken to remedy this evil."

Situation Is Reversed

Then came the advent of the auto. Today there are 26,000,000 autos in the United States. And as the auto increased in use, the demand for kerosene fell off. Oil lamps were rapidly supplanted by the electric light.

The position of the oil refiner was completely reversed by this change in public demand.

"His problem now was to increase his output of gasoline and decrease his output of kerosene," Dr. Egloff continues. "As some unscrupulous dealers earlier had mixed as much of their worthless gasoline with kerosene as possible, they now tried to get rid of their unwanted kerosene by mixing it with gasoline."

"For a time it looked as though the oil industry never would be able to keep up with the mounting demand for gasoline. Prophets of gloom predicted a shortage of crude oil, fearing that the oil resources would last only a few years."

These prophets, however, failed to take into account the progress of science. The picture changed with the development of new means of locating oil pools and with the invention of the cracking process. As a result, the oil industry is producing at the rate of 18,000,000 gallons a year, and Dr. Egloff believes that there will be enough oil to last century more.

"Not only has the chemist shown the way to produce more than 300 per cent increase yield of gasoline from crude oil in twenty years, but in addition, he has produced a new and superior gasoline to that distilled from crude oil in the ordinary way," he says.

"Cracking produces gasoline of different chemical composition from that naturally present in crude oil. Instead of merely boiling off the gasoline fraction of petroleum, cracking subjects the oil to intense heat and pressure; temperatures of the order of 950 degrees Fahrenheit, and pressure of 400 pounds."

Natural Product 'Knocks'

The sort of gasoline made by nature consists of larger molecules than those which result from the cracking process, Dr. Egloff tells us.

The cracking process does just what its name indicates. It cracks the larger molecules of hydrocarbons in the petroleum into smaller molecules.

"Nature's gasoline burns too rapidly and knocks violently during combustion in engines of most modern cars," Dr. Egloff said. "So we crack nature's oil—even gasoline—to make anti-knock motor fuel."

"Motor car manufacturers have been quick to take advantage of the constantly improved quality of gasoline to better the operation of their cars by increasing compression pressure."

MISSIONARIES TO TALK

**District Meeting Will Be Held
Here Tuesday.**

Woman's Foreign Missionary Society will convene for the annual meeting of the Indianapolis district at Roberts Park M. E. church, Tuesday, Sept. 12. Mrs. Ewing Shields will preside.

The morning session will be taken up by the business meeting and includes talks by Miss Elsie Shepard of Mexico and Miss Helen Fehr of Jubbulpore, India. In the afternoon officers will be installed and addresses made by Mrs. Emma Whittle, Mrs. Carl B. Moore, Professor E. R. Moon and Dr. Rebecca Parish of Manila, P. I.

Contract Bridge

BY W. E. MCKENNEY
Secretary American Bridge League

I WISH to clear up a point regarding original third hand bids in the constructive one over one system.

As you already know, in order to make this strength when making a first or second hand bid, you also tell your partner that your hand contains re-bid values; therefore you are often required to pass a fairly strong hand in first or second position.

So, of necessity, third hand must open very light. At a matter of fact, the better players today seldom pass in third position, especially when not vulnerable.

If this is true, how can you tell whether your partner, bidding third hand, is bidding a psychic or has a real bid?

First, if partner's hand contains no strength and he simply wishes to make a bid, he should open with one club. This bid of one club does not signify that he holds a club suit—it is simply an opening bid, and unless partner re-bids clubs or makes a constructive bid in another

club, the club bid is safe.

Midway A. C. grid candidates had a

successful Wednesday and expect a

successful Thursday.

For berline and partners are expected

later. A practice is scheduled for tonight

at the club at 7:30 and Coach Oliver asks

all players to report.

GETS KICK OUT OF PRIZE-WINNING BUCK

The Indiana state fair is supposed to be an educational as well as amusement event, and Miss Jean Agster, (above), 3673 Birchwood avenue, added to her store of knowledge the fact that rabbits pack quite a wallop when they kick.

The photographer happened along while she was admiring the first prize winner in the New Zealand whites buck class, owned by F. H. Bearswill, Lawrence.

**CHARGES VOTER
LAW VIOLATION**

**W. A. Shullenberger Will Be
Speaker Before Bap-
tist Meeting.**

**CHARGES VOTER
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WHAT IT MEANS TO BE A CHRISTIAN

"What It Means to Be a Christian" is the topic selected by the Rev. William A. Shullenberger, pastor of the Central Christian church, for his address at the closing session of the one hundred seventh annual meeting of the Indianapolis Association of Baptists to be held at the New Bethel Baptist church Tuesday and Wednesday, Sept. 12 and 13.

A report by the special committee on evangelism, consisting of the Rev. Louis G. Crafton, the Rev. C. H. Scheick and the Rev. G. D. Billeisen, will present a report on Wednesday afternoon preceding Mr. Shullenberger's address.

The Rev. P. M. Doddridge, who has

been acting in the capacity of state

commissioner of evangelism for the

past year, will speak on the subject

of "Christian Education" with William Gear, Franklin college president, giving the address. In connection with this session the committee on Christian education, composed of the Rev. I. H. Ferris, the Rev. George K. Kinne, and A. C. Waggoner, will report on plans for leadership training in Baptist churches during the coming year.

The Indianapolis Association Male Chorus of 160 voices under the direction of the Rev. R. H. Lindstrom and W. D. Hufferd will present a special musical concert Wednesday night.

The session on Tuesday night will be in charge of the cabinet of officers of the Indianapolis Association B. Y. P. U. Those appearing on the program are Al Robbins, president of the young people's division of the Marion county council of religious education; Robert A. Cook, vice-president of the Indianapolis Association B. Y. P. U.; Karl Scheid, president-elect, and M. R. Tibbs, retiring president.

FASCISM SEEN IN U. S.

**Babson Predicts Rule by Dictator Is
On Way.**

By United Press

WELLESLEY HILLS, Mass., Sept. 9.—Fascism for the United States was forecast by Roger W. Babson, statistician, Friday, at the close of the twentieth annual national business conference.

"I forecast Fascism for the United States; a dictatorship is surely coming," said Babson.

HIGH MOTOR TAX HIT

**Autoists Pay Excessive Levies,
Declares Stoops.**

Declaring that excessive taxes discourage motor car ownership, Todd Stoops, secretary-manager of the Hoosier Motor Club, today said that the nation's motorists pay special taxes to federal, state, and local governments at the rate of \$2,041 a minute.

"The tax bill amounts to \$122,833 an hour, or \$2,947,992 a day. Motorists pay 10.7 per cent of all taxes from all sources," he said.

WRECK KILLS ENGINEER

**Trains Crash When 'Meet Order' Is
Overlooked.**

By United Press

AMIGO, W. Va., Sept. 9.—James W. Crotty, locomotive engineer, was killed here Friday and six other trainmen were injured when a freight and passenger train crashed head-on on the Virginia railroad.

Crotty was believed to have overlooked orders to "meet" the freight train here. He was driving the passenger locomotive. None of the passengers was hurt.

REUNION TO BE HELD

**Wood and Elmore Families Will
Join in Outing Sunday.**

Members of the Wood and Elmore families will hold their nineteenth annual reunion basket dinner in the city park at Danville Sunday.

M. L. Stout of Clayton, is president;

George Clark of Danville, vice-president; and Mrs. Zella Clark Gabhart, 1314 Calhoun street, Indianapolis, is secretary-treasurer.

**INDIANA FLOOD
CONTROL PLAN
IS CHALLENGED**

**Army Engineer Questions
Federal Obligation on
White and Wabash.**

BY WALKER STONE
Times Special Writer

WASHINGTON, Sept. 9.—The federal public works administration had under advisement today the proposal to allot \$18,000,000 for flood control on the Wabash and White rivers, following an exhaustive hearing Friday.

Nearest the close of the hearing, Major General Lytle, Brown, chief of army engineers, warned the public works board that if it undertakes the Wabash-White flood control project as a strictly federal enterprise, thereby will establish a precedent.

CITES HUGE COST

The general counselled the board to determine its national policy on flood control before making a decision to the Wabash and White rivers. He said that a nationwide flood control program along the lines necessary for the two Indiana rivers would mean expenditure of approximately \$400,000,000.

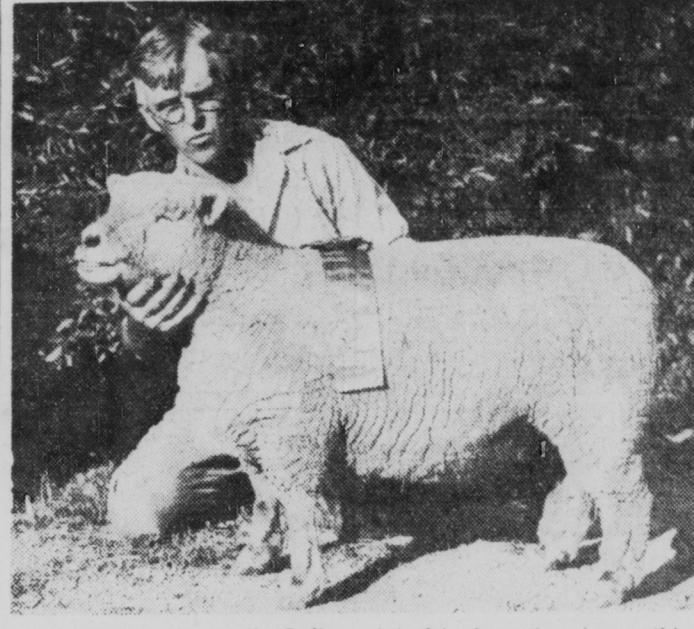
The \$18,000,000, General Brown said, will pay only the cost of erecting levees to protect the farm areas.

General Brown told the public works board that it should not embark on the flood control work without first securing some legal protection to the federal government against claims that might arise because of the backwash of flood waters.

He said levee construction would raise the flood level as much as six feet in the vicinity of Vincennes.

Among the Hoosiers at Friday's hearing were Senator Van Nys,

Representative Louis Ludlow, George Compton, secretary to Senator Arthur Robinson; William Herald; children's party, Mrs. George Smith; laydown game, Charles Jonas; race horse, Harry Woerhage; bing, Joseph Sexton; fortune booth, Thomas Gillespie and Mr. Clifford Sweeney; candies, Mrs. Glenn Cruzan; ice cream, Mrs. Daniel McClellan, Muncie; State Democratic Chairman Earl R. Peters; John Hogan, secretary to Representative Greenwood, and the three members of the Indiana public works advisory board—Otto P. Deluse, John N. Dyer, and Lew G. Ellingham.

WINS FAIR SHEEP CROWN

A championship at the Indiana state fair sheep show is something to boast about, and C. L. Mitchell, Mansfield, O., is proud of his champion Southdown ewe.

**CATHEDRAL HIGH TO
HOLD FALL FESTIVAL**

**Two-Day Event in Auditorium Is
Scheduled for Oct. 6, 7.**

Major event of the fall program at Cathedral high school will be a two-day festival Oct. 6 and 7 in the school auditorium.

General festival committee is headed by James E. Rocap, who announced the following as chairmen of various committees:

Arrangements, James Lynch; advertising and publicity, Paul Just;

prizes, Matthew Herald; children's party, Mrs. George Smith; laydown game, Charles Jonas; race horse, Harry Woerhage; bing, Joseph Sexton; fortune booth, Thomas Gillespie and Mr. Clifford Sweeney; candies, Mrs. Glenn Cruzan; ice cream, Mrs. Daniel McClellan, Muncie; State Democratic Chairman Earl R. Peters; John Hogan, secretary to Representative Greenwood, and the three members of the Indiana public works advisory board—Otto P. Deluse, John N. Dyer, and Lew G. Ellingham.

**NEGRO ROBBER
SUSPECT SLAIN
BY POLICEMAN**

**Sergeant Yoh Shoots Down
Fugitive When He
Draws Gun.**

A scant half-hour after he is believed to have taken part in the holdup of a street car operator, an unidentified Negro youth was shot dead Friday night near the intersection of College avenue and Eleventh street.

The slain bandit suspect was shot by Police Sergeant Kenneth Yoh, after the Negro stopped during his flight, turned and drew a revolver. Yoh ran a few steps, then plunged through a basement window of the Utman apartments, 1109 College avenue.

Car Operator Held Up

He was found dead, the bullet having passed through his heart.

Two Negroes held up Arnold Hoover, 40, of 518 North New Jersey street, operator of an Indiana-Columbia avenue street car, at Massachusetts and Cornell avenues at 8:46 p.m.

A few minutes later, Yoh and his squad, consisting of patrolmen Ralph Chambers and Orville Quintette, drew up beside a pair of Negroes near the scene of the slaying and started to question them.

One Negro ran south, the other north. Chambers and Quintette started after the southward-bound man. Yoh after the one running north. When the Negro darted into an areaway and drew his gun, Yoh fired.

Gun Beside Body

Beside his body was found the revolver. In its pockets were found twenty-three nickels, thirty-three pennies, two dimes, and fifty-one car tokens.

The description of the dead youth tallies in some respects with that of the Negro seen prowling around 1915 North Delaware street Thursday night, when Miss Steena Hardin, 61-year-old housekeeper, was beaten into insensibility.

**NOW—More Than Ever Before
It's THE TIMES for RESULTS**