

# Improved Auto Engine Designed By Graduate

An automobile engine that is said to increase the mileage 30 per cent, has no knock, will result in reduction of gasoline refining, and would extend the world's supply of crude oil, has been invented by a graduate of the College.

Everett M. Barber, who was graduated from the College in 1931 with a bachelor of science degree in mechanical engineering and later received his master of science degree here, is now working with the Texaco Company, Beacon, New York, as supervisor of engineering research where he developed the "knockless engine."

### 30-Man Years

The engine was developed after devoting 30-man years and several thousand dollars to the project, which was handled by a team of research technicians headed by the former graduate.

Some of the specific problems concerning the engine, which if installed in the present day automobile would cause no problem in design, are being studied in the Engineering Experiment Station at the College under the direction of Dr. W. E. Meyers, associate professor of engineering research.

### Professor Assisted

Kalman J. De Juhasz, professor of engineering research at the College, assisted in some of the earlier phases of the work. Harold A. Everett, professor emeritus of mechanical engineering, is serving as acting consultant to the Texaco Co. on thermodynamic problems connected with the engine.

The engine, which uses the Texaco Combustion process, would probably be named after its inventor and be called the Barber Engine.

Barber, who is 44, was born in Oil City. While at the College he was a member of Pi Kappa Alpha fraternity.

### Zelko Addresses Group

Harold P. Zelko, associate professor of public speaking at the College addressed the Philadelphia chapter of the American Society of Training Directors yesterday on the subject "Speech and Conference Training in Industry and Business."

## Soph Elections

(Continued from page one)

cent before the 50 vote penalty. Harry Cover, State clique chairman, expressed confidence that the returns in yesterday's election would make the spring election a close battle. He said that the large number of the split tickets showed intelligent voting by both classes.

### Stevens Pleased

Lion clique chairman Huber Stevens said he was "pleased over the decided increase in the voting percentage." He said that he hoped the heat of battle was over and hoped for "cooperation between the parties in the affairs of student government."

Last year's class officers were Joseph Arnold, president; Sally Shoemaker, vice-president; and John Baron, secretary-treasurer. Arnold was called to the service and the vice-president has been acting president of the class.

Heaviest voting was during the noon hour and between classes. By 2 p.m., some 1275 voters had cast their ballot, and by 4:30 p.m. a total 1905 voters had been to the polls. The election went smoothly all day with very little waiting or loss of time by the voters.

Last fall a total of 1,795 sophomores—56.7 per cent of the 3,133 eligible—voted. Many of the students voted last year merely to obtain sophomore hop tickets, which were given only to students who voted. This year tickets will be given out at the Student Union desk.

## 'On The Ball'

(Continued from page five)

Many Lion harrier coach, never ciation of Amateur Athletics of America—is nothing more than an athletic conference set up in the Eastern part of the country and comprising some 60 to 70 schools.

The NCAA—National Collegiate Athletic Association—is the parent body of the IC-4A conference. According to Werner, 95 per cent of the colleges in the United States belong and pay dues to the NCAA, which conducts all championship events and insists that members live up to certain regulations.

Annually, the best cross country teams in the various conferences gather at a site chosen by the NCAA to fight it out for the No. 1 position.

Monday, about 40 schools in the IC-4A group will attempt to garner both team and individual honors with close to 400 runners expected to traverse Manhattan's Van Courtlandt park course.

In the eleven times that the NCAA's have been run Penn State has supplied full teams on six occasions. In not one instance have they ever done worse than fourth—a truly remarkable record.

## CLASSIFIEDS

### FOR RENT

FOR RENT: Comfortable room for 2 or 3, with board. Phone 2877.

TWIN BEDROOM to share with quiet student. Close to campus. Available the 18th. Phone 6679.

### FOR SALE

FOR SALE: 1938 Chevrolet, 2-door sedan, good running condition, good tires, must sell. \$200. Call Ed, 4702.

20 ft. TRAILER. 316-B Windcrest. See after 6 p.m., or call 3906.

FOR CHRISTMAS—Buy Penn State playing cards sold by Student Union and Schlow's for A.A.V.W. Fellowship Fund.

REMINGTON PORTABLE Typewriter. Good condition \$25. Phone 8441-515.

SUIT—"College Hall" Blue chalk stripe. Size 39, worn 3 times—too small. Phone 4634 after 6.

1933 INDIAN Chief 74" motorcycle. Motor overhauled. Call 7697.

1934 FORD. 41' Ford motor, good tires, good wiring. Phone 4322.

### LOST

ORCHID NET evening bag containing graduation watch lost Friday night. Sentimental value. Call Dorie 150 Ather-ton Hall.

WILL THE Person who took my new Woolrich hunting coat from outside 214 Frear Lab Monday afternoon, please call 2610. I have yours.

BROWN (FAILLE) hand bag. ATO Sat. night. Finder please return wallet that was in it. Keep money. Call 325 Mc-Elwain.

LIGHTWEIGHT TOPCOAT at Sigma Pi Nov. 10. Had Baltimore label and lining zipped out. Call Jim Reed at 4928.

ONE PLAIN gold wedding band between Rec Hall and Windcrest last Friday evening. Reward. Call Ray 2303.

ERIE STRONG Vincent. High School ring between Beaver field and 501 South Allen. Call Don Fields 4939.

SILVER IDENTIFICATION bracelet bearing name Joseph E. Browne. Lost Tuesday, 14th. Probably in 10 Sparks. Call 4923.

LOST IN 107 Temporary Bldg. a book—Writings in Exposition by Reed Mc-Courhel. Phone 4662.

BROWN COVERT Great Dane label. Taken from Sigma Nu Sat. night. Call Ray Hagy 2185. Reward.

PERSON WHO picked up State "51" class ring—initialed J. M.—on fourth floor Old Main, return to Student Union. Reward.

GABARDINE OVERCOAT at Sigma Nu Saturday evening. I have yours. Call Ext. 1083. Ask for George.

### WANTED

RIDE WANTED to Greensburg at 12:00 on Wednesday, November 22. Call 5051 Ext. 298. Pete Thomas.

RIDERS WILLING to share expenses as far south as Newport News, Va. Leaving 9:00 a.m. Monday Nov. 20. Call 4589 before Sunday noon. Bill.

RIDE TO Philadelphia and return Tues. Nov. 21 12:00 noon. Call Nerenbery. Dorm 23 Room 14.

TWO RIDERS, Norfolk, Va. Wed. morning Nov. 22. Call Carolien Walton 4176.

RIDERS WANTED to New York City. Leaving Tuesday noon. Call George Du-vall. Dorm 31—24.

LET ME type your term papers and manuscripts. Theses a specialty. Phone 7147.

RIDE AFTER 3:00 p.m. Tuesday, November 21 to Morgantown W. Va. or Uniontown vicinity. Call Liz, 59 Ather-ton, evenings.

### FOUND

PAIR OF horn-rimmed glasses. Front of Army. M.J.B. inside case. Call 5051-1087, Room 112.

### MISCELLANEOUS

IF YOUR typewriter needs repairs just call 2492 or bring machine to 633 W. College Ave. Mr. Beatties 28 years experience is at your service.

## Young Men's Shop

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One Lot Ties 79c

Navy style Tee Shirts and Briefs S-M-L 39c

Men's White Handkerchiefs \$1 8 for

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Reg. 3.95 All Wool JACQUARD Knit Pull-over Sweaters Contrasting colors \$295

5.95 Value Wool Award Sweaters by ARENA \$395 Gray-Royal-Maroon-Green

Reg. 15.95 Famous Foster Embassy JACKET \$1195 Green-Gray-Cocoa

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It's those tasty, special hot plates being featured each evening at...

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Who will be . . .



## Queen of the Military Ball?

Music By

Claude Thornhill

His Piano and His Orchestra

Friday, Dec. 8

Rec Hall, 8:30 - 12:30

Formal

Note:

Tickets from advanced ROTC members only!



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And Here and Here. And Smooth Driving comes out everywhere. Let our trained servicemen lubricate your car to insure months of safe driving for the cold winter weather ahead. Here's service with a smile . . . and trouble-free driving for your car. Better drive up to Antes Motor Sales at your next opportunity!

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