

G. A. Stahl of Quincy, Michigan, spent two days of last week with his niece, Mrs. Stuart Shafter and her husband on Farmington Road.

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**BOOKIE WITH A BOOK**—A bookie reads his book, but it's a work on philosophy. Colin Leslie Fox, 32-year-old licensed book-maker from England, reads by kerosene light aboard his 23-foot yawl which took him on a 7000-Mile Atlantic voyage. Anchored in New York's East River, he now plans on selling his sailboat and buying a car to tour America.

## U-M Physicists Find Sound Waves May Produce A Better Carburetor

Most people believe that sound is a simple thing to explain. It is the impact on the human ear made by a hungry baby or a six-year-old slamming the front door or the zooming of huge trucks as they speed down the highway at night.

But to the physicist, sound may not be sound at all. The closest parallel in daily life to this conception of sound is the highly pitched whistle which, although noiseless to the human ear, is

nevertheless capable of bringing Fido home to his evening meal.

Audio-physicists, those scientists interested in sound, have long been aware of a type of sound which cannot be heard. It is called ultra-high frequency sound; the inaudible, highly pitched variety the intensity of which can be so increased that the waves actually may "pierce" or burn human flesh.

Ultrasonic energy, readily adapted to science fiction and TV, has been harnessed by University of Michigan physicists in what looks like a practical and promising manner of fuel combustion.

Ordinarily fuel is fed to an engine by means of a carburetor, a device containing small holes through which fuel passes under pressure, thus creating a spray. The ignition of the fuel, after its passage through the carburetor, feeds the engine and keeps it in motion.

There is considerable loss of energy in the conventional process. The spray of fuel is coarse, resulting in an ultimate possible loss both of the fuel and of its potential energy.

However, physicists have found a way to achieve a fine, misty spray of fuel by "bouncing" it off the end of a solid cone-shaped section of aluminum. The fuel bounces because the aluminum has been charged with sound waves.

The ultimate effect is not unlike the released spray of water discharged from the end of a siphon. Standing near a wet dog often produces a similar result.

Julian R. Frederick, research physicist in the Engineering Research Institute and lecturer in physics, calls his device an "ultrasonic carburetor." The fine spray of fuel, which is dropped slowly to the end of the vibrating metal cone, is then ignited. The diffusion or mist makes possible a more efficient use of the fuel.

Frederick expects to continue his research and to refine the atomizer. In its present state in the East Engineering Building, the ultrasonic carburetor, or sound atomizer, resembles a Rubie Gold-berg contraption.

But there may come a day when the old homestead is heated by a combination of fuel oil and sound. It may even mean that the family fiver will cruise around main street on a highly pitched, but inaudible, note.

## WILDLIFE PROJECT TO BE STARTED BY STATE FARMERS

Southern Michigan farmers can start now working on an individual wildlife food and cover project, geared specially for their farms, the conservation department reports.

Free planting stock is provided under the program; department biologists survey each farm separately and suggest the best planting program for wildlife and farm development.

Hardwood and evergreen tree seedlings are given farmers under the program; also, mulch, manure and other types of plantings attractive to wildlife are provided at the farmer's request.

Farmers and wildlife both gain under the program. Wildlife gets more food and cover plants while farmers develop living hedgerows, tree windbreaks and other erosion-stopping clumps of growth.

A post card mailed to the department's game division at Lansing, asking for information on the farm habitat program, will start the southern Michigan farmer on his way.

Planting programs for this fall and next spring may be scheduled; game men will consult with farmers on the program at the earliest opportunity after the post card is received in the Lansing office.

The Robert Kellogg of Milmore Avenue visited Niagara Falls this week.

## Farmington Student To Receive Master's

A total of 522 students at Michigan State College will complete work for degrees when the nine-week summer term closes on August 21.

Included in the number of graduates is Alfred M. Wallbank of 3182 Grand River in Farmington. Wallbank receives his Master's Degree in Bacteriology and Public Health.

Of the 522 degrees to be awarded, 222 will be bachelor degrees and 184 will be advanced degrees. Included in the total of those to receive degrees are 364 men and 158 women.

Graduates of summer term participated in regular spring graduation exercises that were held in Macklin Field Stadium on Sunday, June 7.

## Livonia C.A.P. Crew Serves At Plant Fire

Civil Air Patrol 6319-B of Livonia turned out in force to help direct traffic, maintain road blocks and man flood lights at the recent General Motors transmission plant fire on Plymouth Road.

Leaders of the squadron figure that members served a total of 38 man-hours in helping fight the fire.

Richard, four year old son of Mr. and Mrs. George Cooke, Hugo Avenue, fell from a swing Friday and broke his collar bone.

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## REGISTRATION NOTICE FOR SPECIAL ELECTION

October 5, 1953

To the Qualified Electors of FARMINGTON TOWNSHIP, COUNTY OF OAKLAND, STATE OF MICHIGAN

Notice is hereby given that in conformity with the "Michigan Election Law", I, the undersigned Clerk, will, upon any day, except Sunday and a legal holiday, the day of any regular or special election or primary election, receive for registration the name of any legal voter in said Township, City or Village not already registered who may APPLY TO ME PERSONALLY for such registration. Provided, however, that I can receive no names for registration during the time intervening between the Thirtieth day before any regular, special or official primary election and the day of such election.

NOTICE IS HEREBY GIVEN THAT I WILL BE AT THE TOWNSHIP OFFICE

Friday, September 4, 1953, Last Day The Thirtieth day preceding said Election

As provided by Sec. 3, Chapter 2, Part II, P. A. 306, 1929 and Sec. 1, Chapter 2, Part II, P. A. 1839, Act 31, P. A. 1941, Act 201, P. A. 1945 and Act 108, 1951.

From 8 o'clock a.m. until 8 o'clock p.m. on said day for the purpose of REVIEWING the REGISTRATION and REGISTERING such of the qualified electors in said TOWNSHIP, CITY or VILLAGE as SHALL PROPERLY apply therefor.

The name of no person but an ACTUAL RESIDENT of the precinct at the time of registration, and entitled under the constitution, if remaining such resident, to vote at the next election, shall be entered in the registration book.

ELECTOR UNABLE TO MAKE PERSONAL APPLICATION, PROCEDURE

SEC. 16. Any elector who is unable to make personal application for registration because of physical disability or absence from the Township, City or Village in which his legal residence is located, may be registered prior to the close of registration on any election or primary election by securing from the Clerk of the Township, City or Village in which he is located his legal residence, duplicate registration cards and executing in duplicate the registration affidavit before a notary public or other officer legally authorized to administer oaths and returning such registration cards to the Clerk of the Township, City or Village before the close of office hours on the last day of registration prior to any election or primary election. The notary public or other officer administering the oath shall sign his name on the line for the signature of the registration officer and designate his title.

TRANSFER OF REGISTRATION: APPLICATION, TIME

SEC. 19. Any registered elector may upon change of residence within the Township, City or Village cause his registration to be transferred to his new address by sending to the Clerk a signed request, stating his present address, the date he moved thereon and the address from which he was last registered, or by applying in person for a transfer. The Clerk shall strike through the last address, ward and precinct number and record the new address, ward and precinct number on the original and duplicate registration cards, and shall place the original registration card in proper precinct file. Such transfers shall not be made within the 30 days next preceding any election or primary election, provided that no such transfer shall permit any person to vote in any Township, City or Village in which he had not resided 30 days next preceding any election or primary election.

HARRY N. McCRACKEN, Clerk

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