

Visit Detroit This Summer

And Enjoy a Real Vacation

Put-In-Bay in Lake Erie

The most picturesque and delightful Summer pleasure Island near Detroit. Every sport that pleases. Bathing, fishing, sailing, explores the mysterious caves; see Perry's battle monument, picnic groves, athletic fields. Numerous fine hotels and cottages cater to Summer visitors at reasonable prices. Stay a day or a week and enjoy yourself, forget your troubles and renew your health.

This beautiful island playground is reached only by the palatial and speedy day excursion steamer PUT-IN-BAY. One great deck devoted to dancing and music, restful cabins and breezeway open decks.

Steamer PUT-IN-BAY gives excursions daily from Detroit to Put-In-Bay Island 49 a. m. from the wharf at the foot of First Street. Four hours round trip pleasure at the island, and arrive back in Detroit 8:15 p. m. Fare for the round trip 80 cents week days; Sundays and Holidays, \$1.25.

Cedar Point and Sandusky, Ohio

After leaving Put-In-Bay Island the steamer sails on through the narrow channels among the delightful Lake Erie Islands to Sandusky and Cedar Point, Ohio. Cedar Point, just across the bay from Sandusky, is known as the Atlantic City of the West. With its huge hotels, electric park, magnificent bathing beach and boardwalk it is really the Queen of the Great Lakes Summer resorts.

On Fridays, after July 4, steamer Put-In-Bay gives a special excursion to Cedar Point, allowing four hours at the wonderful resort, and reaching Detroit at 10:30 p. m.

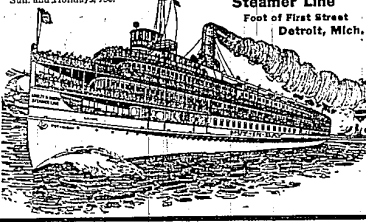
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Ashley & Dustin

Steamer Line

Foot of First Street

Detroit, Mich.



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CALL MEETING FOR MARKET GARDENERS

Michigan market gardeners will gather at M. S. C. on Wednesday, August 26, for the second annual gardeners day, according to announcement made this week by George Starr, specialist in charge of vegetable work at the college.

Several hundred men, from market gardening centers all over the state, are expected for conference.

After inspection of the extensive experimental work being carried on in the college horticultural plots, the visiting gardeners will meet in round-table conference in the afternoon. Problems of the market gardener will be taken up, with members of the horticultural staff at M. S. C. leading discussion.

Varietal work to develop better strains of vegetables for the market gardener is expected to prove of particular interest. The commercial growers themselves join in the planning of these test programs, in order that the most practical phases of experimental work may be included.

Highlights of Radio Broadcasting

(First Installment of a Series of Twenty-one Articles by Dr. Goldsmith.)

PICKING UP BROADCAST MUSIC

By ALFRED N. GOLDSMITH, B. S., Ph. D., Fellow, I. R. E., Chief Broadcast Engineer, Radio Corporation of America.

The human ear is a truly marvelous instrument. Few people realize all the amazing tests which the ear and brain in combination can perform, and therefore how difficult is his task of the broadcast device which aims to hear and pick-up for the listening radio audience exactly what is happening in a concert hall or studio.

To begin with, the ear hears a tremendous range of differently pitched sounds from the lowest notes to the highest. The deep boom of an organ pipe at one end of the gamut of notes which the listener wishes to have reproduced. At the other end of the organ range lie the overtones of the violin and piccolo in all their interesting and tart shrillness, and the high pitched overtones which alone make the organ consonants "at" and "in" sound natural. Actually the necessary frequencies range all the way from



DR. A. N. GOLDSMITH

the ponderous tone of about 30 vibrations in a second to the keen and piercing sound of 10,000 or more vibrations per second. The lower frequencies are not correctly picked up. The piano sounds "tinny," the baritone voice becomes a tenor, and the speaking voice, while understandable, sounds thin and unnatural. On the other hand, if the high frequencies are left out or partly lost, the violin sounds like a flute, orchestras give a hunched and incomplete impression, and the voice particularly of the female speaker, sounds muffled and indistinct.

The ear is also capable of hearing and appreciating a wide range of loudness in a sound. One can hear and understand a faint whisper, and also an almost deafening shout. In broadcasting, so extreme a range of loudness is hardly required, yet it is necessary that the expression of a piece of music be preserved by subduing appropriately the softer parts, and accentuating fully the more forceful portions. It is not easy to find a suitable telephone transmitter and vacuum tube amplifier for the broadcasting station that will preserve the relative loudness of tones accurately. It becomes necessary to use vacuum tubes somewhat extravagant fashion, most of the time working them far below the maximum output they will give in less critical service in order to avoid distortion when really loud notes are to be correctly reproduced. If this is not done, loud notes "crack" and one gets the unpleasant effect known as "blasting."

Ear and Feltow Melody
Another characteristic of the human ear, or it may be, of the brain, is the ability to concentrate on a strain of melody or a particular part of a musical composition. This is particularly noticeable in concert with orchestral compositions. It is well known that the ear and mind can pick up and follow the melody played by the violins of an orchestra, although the remainder of the orchestra is also contributing its full quota to the total of sound. To some extent this can be imitated in broadcasting by properly placing the pick-up microphone so that the instrument carrying the melody is nearest to the transmitter and thus is accentuated in the resulting broadcast music. This, however, is always done at the risk of exaggerating this instrument unduly, or of suppressing other important instruments, and thus doing what is known as "throwing the orchestra out of balance." In fact, a good musical critic is a necessary element in every broadcasting station that has any pretensions of sending out really artistic productions.

Having mentioned the problems in picking up music for broadcasting, it may be desirable to give some of the various solutions for them which have been found. The telephone transmitter which is used must be a very different device from the ordinary transmitter used for the usual wire telephone system. While the

LEAPS OFF FAST TRAIN TO ESCAPE MICHIGAN STATE DETECTIVE RISKS LIFE TO CAPTURE AND BRING BACK GIANT NEGRO.

Michigan State Detective Risks Life to Capture and Bring Back Giant Negro.

This true story is just as good as fiction. It hinges around a policeman, jumping off a fast moving train right on the heels of a prisoner who had gotten away, how he chased him down the track, caught him and safely put him in trucks for the remainder of the journey.

Arthur Trease, a detective of the Michigan State Police, whose duty is to transfer prisoners, is the hero, and Clarence Hicks, a parole violator from Jackson prison is the villain, as it were.

Hicks was arrested by the police at Reno, Nev., being identified as the Michigan parole violator from photographs and fingerprints mailed to all police departments by the bureau of identification of the Michigan State Police. Trease was sent after him.

Hicks is a big negro, much larger than Trease. Trease took the Southern Pacific route from Reno to Chicago. He had handcuffs on Hicks at all times except when they were in the dining car, when he took them off to eat his prisoner's cold eat.

After a meal just before the train reached Chicago, Trease was just in the business of replacing the cuffs on his prisoner's wrists when in one jump Hicks left the train through a door that had been left open.

Train Was Held

The train was going 40 miles an hour, but that did not stop Trease, who jumped right after his man. He took a spill upon hitting the ground, but suffered no more injury than to tear a heel from his shoe. He chased Hicks down the track for a mile before he was close enough to grab hold of his shirt and stop him. A fight followed, but the negro received much the worst of it. The conductor stopped the train for 30 minutes until Trease returned with his man, who is now safely behind the bars in Jackson prison. Most of the passengers on the train knew what was going on and were witnesses to the escape, the chase and capture.

Hicks was the first man to ever escape nearly 50 years ago from Trease, who has had a lot of police experience, serving with the Pennsylvania State Police before coming to Michigan.

EXPRESSES THANKS FOR SOLVING MURDER

The aid received from the Michigan Department of Public Safety saved Iron county thousands of dollars, which would have been required to bring this prosecution to a successful termination," said Prosecutor A. J. Watten, following the conviction of Axel Nygard for the murder of 7-year-old Zyskowski, Iron River pool room proprietor.

The Michigan State Police, under the direction of Lieut. Fred Bedard, took an active part in the investigation which resulted in Nygard's arrest and subsequent confession.

The murder case was one of "the most sensational and spectacular in the annals of Iron county circuit court. It was 13 months after the pool room was entered, five men held up, and the proprietor shot, before the slayer was caught.

Proof of the old saying that a guilty conscience will betray itself was present in the trial, for Nygard contributed heavily to his own conviction. When cross-examined over crucial matters by the prosecution he collapsed and was assisted from the stand, a development, that in the minds of the jurors, was translated into the result of the burden of guilt.

LOCAL OFFICERS USE FINGERPRINT EXPERTS

Sheriffs and other local officials are using the services of the state's fingerprint experts from the Department of Public Safety at Lansing more and more. In June there were 25 requests for men to be sent out to assist in criminal investigations.

An unusual case was one where burglars had entered a clergyman's residence, stolen the communion wine and drank it in the yard. Their finger prints were found on the bottles.

An average of more than 300 identifications a month is made by the identification bureau at Lansing. Under a new law all local officials making requests are required to send fingerprints to the state bureau. It often develops that persons arrested in one county are wanted for crime in another.

PRESIDENT GIVES PRAISE

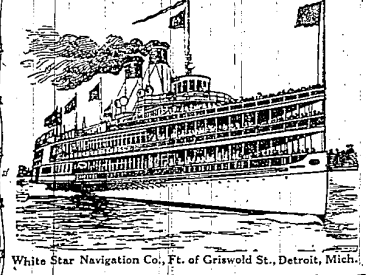
President Coolidge has expressed his commendation of the work of the Maryland State Police who, have formed his report on several occasions while transiting that state. It will be recalled that President Roosevelt was also an active friend of the State Police idea.

Big Str. Tashmoo

From Ft. of Griswold St., DETROIT, daily for PORT HURON, SARNIA, TASHMOO PARK, ALGONAC, ST. CLAIR FLATS

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DANCING MOONLIGHTS Every Saturday and Sunday 8:30 P. M. Back 11:30 P. M. 75c.



White Star Navigation Co., Ft. of Griswold St., Detroit, Mich.

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