



## Getting Out the New

The 35th annual Journalism Workshop is currently underway at the University of Michigan, which includes this year 39 high school students from Michigan and four from midwestern states. Taking time out from a busy three-week schedule to glance at their first newspaper are (from left) Beverly Brightwell of Detroit, Karen Feder, 22779 N. Bellwood Drive, Southfield; and Kenneth Zimmerman, 2275 Fairway Drive, Birmingham.

## Modern Electronic System Recreates Wedding Rites

Visitors to the newly reconstructed church of St. Anne de Michilimackinac can attend a 200-year-old wedding this summer, thanks to modern electronics. Charles de Langlade, 25, and Charlotte Bourassa, 19, were wed in the original church on August 19, 1764. Their wedding has been recreated in stereophonic sound and with the aid of special lighting effects is replayed several times each day, according to the Michigan Tourist Council.

The pews of the rebuilt chapel accommodate 160 visitors. When all are seated, the lights dim, the windows brighten and the altar candles light one by one.

LIKE ALL OTHER buildings at the fort, at the southern approach of the Mackinac Bridge, the chapel has been reconstructed from fact and artifact. Items and fragments which were actually used at the fort have been carefully unearthed by archaeologists at the site. These, combined with available historical documents, have guided the Mackinac Island State Park Commission staff in the reconstruction of buildings, many on their original locations.

The interior of the church, for example, has been fitted with

## The Birmingham Eccentric

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Many, indeed, are the number and varieties of little and big problems that confront one. Often the answers are difficult to find but there are millions who, bowing in humble prayerful thought, suddenly, and happily, become conscious of the answer to the moment's problem—for such is the help sent "... from that celestial, divine realm whose rim no earthly foot has trod". (GRA)

## SECTION F

IN THIS SECTION:  
General News

## Lung Function Tied To Growth, Says Prof.

If Jimmy "shoots up" markedly between the ages of 12 and 13, the youngster's lung function will grow strikingly during the year too, in a manner quite predictable from his other body changes.

This is one of the conclusions of a University of Michigan researcher who recently completed the first extended investigation of comparative growths of lung function.

In the spring of 1960, Dr. George

De Muth, associate professor of pediatrics and communicable diseases, first examined Jimmy and 146 of his classmates at the University's nursery, kindergarten, elementary and high schools.

EACH OF THE youngsters, ages 4-18, was given a battery of lung function tests. Dr. De Muth says: "He and several assistants used the spirometer and advanced electronic equipment to measure the children's lung volumes, diffusing capacity, gas distribution, and rates of gas flow.

"The information from the first set of tests was compared with data collected on 101 of the same children a year and a half later. The measurements were taken again in order to compare the individual's growth to that of the group," says the U-M pediatrician who is director of the Pulmonary Function Laboratory at University Hospital.

The researcher reports that "lung volume, diffusing capacity and some rates of flow increase along lines parallel to general body growth."

IN A DETAILED report on the study, Dr. De Muth also indicates: "The pattern of gas distribution within the lungs remains the same throughout the growing period.

"For the most part, the strongest children had the most even gas distribution within the lungs.

"In general, the more intelligent children had the higher rates of gas flow within the lungs.

The study also indicated that breathing patterns generally seen in diseased patients are present to some extent in many healthy individuals, Dr. DeMuth says.

"What physicians call abnormal in the more severe case may be present in mild forms in normal children."

THE REPORT of the study will run more than 80 pages and is scheduled for publication this fall in Pediatrics, a professional journal.

Dr. William Howatt, assistant professor of pediatrics and communicable diseases, and Dr. Bruce Hill, assistant professor of mathematics, worked with Dr. De Muth on the research project and on the report.

replicas of 18th century religious fixtures including candlesticks, altar cloths, ornaments and decorations.

Fragments of the 18th century bell, uncovered by archaeologists, were sufficient for reconstruction purposes. From the fragments, specifications of the original bell were calculated and a new bronze bell was cast by a Netherlands firm.

Prior to the reconstruction of the chapel, extensive preliminary research was undertaken. In addition to local information, historical data was obtained through visits with the French Jesuits in Montreal and personal research at the Public Records Office in London.

ONE OF THE principals in the ceremony, de Langlade, later became a prominent fur trader in Michilimackinac. He, as a French officer, led a detachment of Indians in the defeat of General Braddock and a young officer named George Washington in Pennsylvania in 1759.

The original church, built in 1774, was moved intact over the ice across the Straits of Mackinac to the new fort on Mackinac Island in 1780.

## Bats Come Equipped With Sound-Navigation

How blind is "blind as a bat?" Bats, the only mammals which have the power of true flight, also have the unusual ability to navigate in the dark by what aviators might call "instrument flying."

A warning about bats, which are practically world-wide in distribution, has been issued by the National Pest Control Association. As its technical director, Dr. Philip L. Spear noted that these strange animals can be both a friend to man and a dangerous enemy.

THE BAT, said Dr. Spear, is a friend which devours literally hundreds of harmful insects daily, but is a potential enemy which can transmit communicable disease, notably the extremely painful and often fatal rabies virus.

Scientists who have studied animals of this type, variously described as "flying mouse" in this country and "flying fox" in Java (where it sometimes attains a wingspread of nearly five feet), say it has what amounts to a built-in radar system and really doesn't need eyesight for navigation.

It isn't radar in the true sense, of course, but what a bat does have is a unique hearing ability and an ultrasonic cry which makes it possible for this creature to "fly blind."

AS LONG AGO as 1794, Lazzaro Spallanzani had demonstrated that bats depend on hearing more than sight for navigation. When bats are set free in a room broken up by dangling wires, they can successfully avoid the wires until they are caught.

Scientists in later years found that bats not only have a keen sense of hearing, but have the ability to emit sounds which defy the normal human ear. They "bounce" these sounds off objects in line of their flight and avoid obstacles which would be in their way. Cover up their ears and they usually blunder into the wires and other objects they could otherwise easily avoid.

For centuries bats have been associated with evil because of their nocturnal and reclusive habits, but are they a friend or foe of man?

BOTH, SAYS Dr. Spear, depending largely on how close they are to human habitation. If they infest your attic or summer cottage, they are an annoying, disease-carrying dangerous pest.

If they only live in a cave far from civilization, they eat tremendous quantities of harmful insects and produce a valuable fertilizer, mined in some places for its agricultural value.

"Bats have no place in your home or other places frequented by humans," Dr. Spear noted. "They may carry the deadly rabies virus and must be controlled. The professional pest control operator has the know-how and the equipment to do this effectively."

## Free Circus Set For State Fair

Hubert Castle's International Circus will present daily free admission shows in front of the grandstand during most of the 115th annual Michigan State Fair which opens Aug. 28 and runs through Sept. 7.

The circus schedule: 8 p.m. Aug. 28; 2:30, 5 and 8 p.m. from Aug. 29, through Sept. 5; and 8 p.m. Sept. 6, following the annual 250-mile race.

There will be no circus performance on the State Fair's final day, Sept. 7, when the 100-mile auto race and the fireworks display will be presented in front of the grandstand.

## Citizen of the Year Picked at State Fair

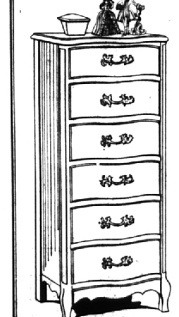
Entries for two Old Timers' Day features were invited by the Michigan State Fair. The deadline "bounce" these sounds off objects in line of their flight and avoid obstacles which would be in their way. Cover up their ears and they usually blunder into the wires and other objects they could otherwise easily avoid.

For centuries bats have been associated with evil because of their nocturnal and reclusive



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