

# How Medicine Will Progress In 1970s

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Michigan Medical Society

Modern communication and transportation have made the world a shrinking globe. A traveler can now touch four continents in one day by jet airplane.

In so doing he can spread

disease, if he happens to be infected, to a tremendous portion of the entire world.

In the Western Hemisphere, the Pan American Health Organization endeavors to combat epidemic disease and to assist the populations in less-favored portions of this hemisphere.

● We are fortunate that the health record of the United States has been kept on a continued high level, with freedom from major epidemics.

● MOST HEALTH progress depends upon medical science, so it is important to recognize that the medical science is based on innumerable hours of tedious, laborious, undramatic work by individuals with an intense scientific curiosity.

● For example, the modern vaccines which are weakened so that they produce immunity without producing disease, are the result of an incident in the laboratory of Dr. Pasteur in Paris.

● He developed a culture of bacteria for use in the study of a disease in chickens. He was distracted from the experiment, and the culture stood around in the laboratory for some time. When he got back to the experiment and tried to use his old culture, which should have infected the experimental birds with disease, it was found that nothing happened.

● Even when a new culture was used, the birds did not become ill. He immediately began to wonder what had happened to that culture that stood around, and what, if anything, that culture did to the birds that they failed to become ill from the later injection.

● He arrived at the conclusion that the first culture had grown weak through aging and, although weakened, might still have the ability to protect. The experiments instituted to prove that point were the beginning of aging, or otherwise weakening, bacterial cultures to create immunizing agents.

● IN A SIMILAR fashion, penicillin was discovered. It was noted that bacterial cultures sometimes failed to grow as expected, but developed other types of growth.

● Examination of these under the microscope disclosed a

well-known mold, the penicillium, or ordinary bread mold. The secretion, or product, of penicillium slowed the growth of bacteria. This led to a clinical application and it was appropriately named penicillin.

● We can look for good medical progress in the future. Here are some things we can expect in the 1970s:

● More people will live longer, and the older people will live better.

● Improvements will be made in diagnosis, medical treatments, surgery, and preventive medicine.

● There will be a continuous and increasingly rapid use of electronics and other advanced techniques in medicine and medical methods. A better understanding of heredity and genetics will become of major importance.

● Nervous and mental diseases will be handled in a much better manner—in fact, rehabilitation will advance for most handicaps of this variety.

● Intelligent use of family planning, better control of chronic diseases, better understanding of safety principles, will cut down the incidence of accidents and disease.

● Hospital, nursing home, and out-patient home and office treatment of patients will be more effectively coordinated.

● THESE ADVANCES are predicated upon meeting the need for qualified young people to enter the healing profession with a service motivation.

● Cooperation between health professionals and patients also will play a vital role. Patients can be a major source of medical progress, if they understand how they can work with the medical profession, how the human body works, the early signs of chronic diseases, and what to do in medical emergencies and in home nursing.

● Because health progress is so rapid today, knowledge of where sound health information can be obtained is invaluable.

● In a condition of rapid progress, and thus rapid change, a vast amount of misinterpretation and misrepresentation of health products and services can occur, so it is equally important for people to know what not to do.

## OU Goes Contemporary For Adults

ROCHESTER  
"Contemporary" seems to best describe the 53 new continuing education courses to start Feb. 16 at Oakland University.

In the new winter catalog of more than 200 evening programs are found such provocative titles as "the drug dilemma," "of poets and poetry," "threats to man's survival," "discipline and human growth," "Vietnam," "pollution and student activism," and "Russian," on the liberal arts side; with "urban problems and the manager," "the growth stock in the Wall Street jungle," "mergers and acquisitions," and "labor law and the manager," representing the 133 management and business programs.

Also included in the winter term program are all of the more popular fall courses such as: "communicating across the generation gap," "Meadow Brook Theatre: stage and backstage," "group dynamics," "Modern Mania," and the technical, science, computer and real estate programs.

Course information, registration and continuing education catalogs are available by contacting Oakland University's Division of Continuing Education, Rochester 48063. Phone 377-2000, ext. 2171.

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## Is State Attracting Investment?

How hospitable is Michigan? How is it regarded by new firms and by firms that need more room so they can meet the demand of expanding markets?

How attractive an environment is it in terms of growth prospects and stability?

ONE MEASURE is in expenditures for new plant and equipment. During the last six years, according to State Commerce Director Richard E. Whitmer, more than \$1 billion has been spent annually in Michigan for new plant and equipment.

Whitmer said the figures for the last four years—1966 through 1969—are unofficial. They were computed by the office of economic expansion of the Michigan Department of Commerce from data it collects from many sources.

The latest official figures from the U.S. Department of Commerce for the year 1965 show that Michigan led the nation in new plant and equipment investments—passing even the six industrialized states that are larger in population.

Michigan's investment for new plant and equipment during 1965 was \$1.39 billion. Next highest was neighboring Ohio with \$1.38 billion while California ranked third with \$1.2 billion and New York fourth with \$1.10 billion.

"Such faith, backed by big money, presages Michigan's future," Whitmer said.

## Alums Set Dean's Speech

Three area alumni of Manchester (Ind.) College are in charge of plans for an alumni chapter dinner meeting to be held in Detroit, Jan. 18, at 7:30 p.m.

Max Douglas of Plymouth, Mrs. Doris Royer of Westland and Dale Oxender of Ann Arbor are the committee.

Meeting in Greenfield's Restaurant on Woodward at Temple, the chapter will hear Dean of Students Paul Hoffman give a student's eye view of the college.

Alumni living in the counties of Livingston, Oakland, Washtenaw, Wayne, Lenawee and Monroe have been invited.

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