

## What's this 'high tech' buzzword?

"We have reached no general agreement on a definition of a high technology industry." So concluded a study last year by the Joint Economic Committee of Congress.

The term "high tech" became part of our language during the late 1960s. It was most commonly the late 1960s. It was most commonly the late of t

awage usuring the late 1960s. It was met commonly used in reference to computers and related technol-gop. During the 1980s, the term has become an overworked bursword of polliticians, educators, sci-cultus, investors and the mass media. As with other burswords, the definition got lost in the type.

TECHNOLOGY is the application of science. But I believe high technology is more than this.

Recently, the U.S. Department of Commerce's office of Science and Technology defined a high technology industry as one which continuously utilizes technology of recent origin for improvement and development of new products.

Another foderal bureaucracy, the National Bureau of Standards, offered this definition: A high technology industry is one which has experienced highlificant technological change, generally origizated within the industry listell, during the last several decades. Both definitions leave a lot to be desired.

THE JOINT Economic Committee of Congress did agree that high technology industries fall into live broad calegories.

They are electric equipment, machinery, transportation equipment, instruments and related products, and chemicals and allied products.

High technology refers to processes as well as products. Even the most muddane "low tech" products such as steel and textiles can be made with high tech processes such as computers and automated factory systems.

The definition I will be using in these columns incorporates a combination of the following 10 characteristics of high technology industries.

HIGH TECHNOLOGY:

1) Has significant growth potential.
2) Is based on scientific and engineering ideas and principles.
3) Utilizes explicationated technology.
4) Isrues a significant number of patents.
5) Has a high capital-to-labor ratio.
6) Is at the leading edge of technological developments.

ments.
7) Has high levels of research and development

7) has taga average spending.
8) Incorporates sophisticated and expensive equipment.
9) Uses a high ratio of scientists, engineers and technicians in the work force.
10) Is characterized by rapid changes and devel-

opment.

IN RECENT years, high technology has been touted as a way to economic recovery, industrial growth and worldwide market expasion.

Without a doubt, new and expanding high technology industries will create jobs. However, since high technology industries are diverse, it is exteremently difficult to pinpoint which industries and how many new jobs. Gustries have a significant impact on occupations. The effect upon employment will be first realized by an increase in entry-level still requirements.

Secondly, many workers will experience an upgrading of occupational skills and a healthy dose of retraining to keep abreast of the rapid technological changes.

retraining to seep ancess of use rapiu tecanologi-cal changes.
Tairdly, there will be a reduction in the number of unakilide employment opportunities.

Tairdly, there will be an increased occupational training so workers will be adequately prepared to face the brave new world of high technology.

## Road board aiding state jobs effort

Oakland County road commissioners will help provide work for people in state jobs programs. The road commission will pay Oakland County \$17,850 for roadside litter pickup work for 17 weeks.

Weeks.

Commission Chairman John R. Gnau Jr. said he was told 13 people in Gov. James Blanchard's Jobs program will staff the Jobs five days a week until the program expires in September. Then the Jobs will be staffed by labor from the Department of Social Services general assistance work program. He said the road commission has participated in the county work program in the past, but this year it has increased from two to five days a week.

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## Watcke to tell what high tech means to you

Beginning today, Ronald R. Watcke will ex-plain the world of high tech in a series of arti-cles in plain English. He will tell what it man-to people who work, to students, to people planning to return to school, small business op-erators, people planning career changes.

"The column will go beyond reporting the news. It will be analytical and hopefully ithought-provoking," be said as he cottlined as he cort the strength of the control of t

Future topics include Michigan's own Silicon Ridge, the effect on the auto industry, the paperiess office. genetic engineering, home computers and satellites.



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