At a time when the world faces an At a time when the world laces an enormous need for engineers to help solve a long list of ills, the United States lags behind Japan, West Germany and the Soviet Union in the number of engineering graduates per capita.

That's the assessment of Donald J. Ciffols wise That's the assessment of Donald J. Giffels, vice president of business de-

velopment in the Southfield-based Gif-fels Associates Inc., architects, engi-neers and planners. Giffels, who is president of the De-troil Chapler, Michigan Society of Pro-fessional Engineers, spoke at last Turusday's Southfield Chambare of Commerce luncheon at Michigan Inn. His talk was geared to the theme of the Feb. 22 28 'National Engineers

## Youth Symphony to perform

Oakland Youth Symphony, under conductor Ervin Monroe, will present an exciting concert on Sunday, March 15, at 7:15 p.m. in Varner Recital Hall on the campus of Oakland University, Rochester.

Rochester.

This performance will include the Brahms Symphony No. 4 in E minor, Op. 98, and will be climaxed by a dazling version of Tchaikovsky's Capriccio Italien, featuring the superb artistry of the Oakland Youth Brass Section. Tickets are \$\$ for adults and \$\$2 for students and may be purchased in advance or at the door. Information can be obtained by calling Mrs. Lewis at 624-1540 or 349-0036.

Oakland Youth Symphony is made up of young musicians ranging in age from 11 to 18 from the metropolitan Detroit area. Now in its seventh season, Oakland Youth has since its origin been conducted by Ervin Monroe, principal flutist and soloist with the Detroit Sym-

phony to perform
phony Orchestra. As Music Director,
Monroe selects exciting and challenging music designed to develop the
members musical abilities beyond usual school levels. Oakland Youth Symphony has not only a nine month orchestral program, but also offers a
summer orchestral camp utilizing the
beautiful Oakland University Campus.
Students Students of the mount of the
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featured in a formal concert as part of
the Meadowbrook Music Pestival Series. Oakland Youth Symphony maintains a close relationship with members of the Detroit Symphony Orchestra, many of whom have been involved
in auditions, sectionals and competition
judging. The annual Detroit Symphony
Oakland Youth Softbail game is an example of this delightful aspect of professional involvement with our young
musicians.

Week — "Engineers and Opportunity for Progress."

"In Germany and Japan, the emphasis is on science and math in primary and secondary schools," he said. "In the Soviet Union, all students are required to complete five years of physics and four years of chemistry.

"About five times as many Soviet students as Americans go on to engineering training, Our principal commercial or military rivals recognize that future superiority rests heavily on competence in applied science and engineering. They've been preparing their young people for the world of the future."

PERSONS IN the Detroit area might not believe there's a shortage of engi-neers because they know a few who have been laid off from jobs with auto companies or supplier firms, Giffels said

But those engineers are being snapped up by industries in other parts of the country that haven't yet been seriously attacked by overseas industial competitors, he said.

competitors, he said.

A recent study shows that 75,000 engineers leave the market each year because of retirement, promotion, career changes or other reasons, Giffels said. But in 1980, fewer than 59,000 bachelors degrees in engineering were awarded by all educational institutions.

screens. Many of these problems are going to have to be solved by engineers, some with the help of businesspersons."

IT COSTS the auto industry \$1,000 to \$1,500 more to produce a car the same size and kind as one produced in Japan, Giffels said. And the perception in the

cause of retirement, promotion, career changes or other reasons, diffels said.

But in 1980, fewer than \$9,000 bachelors degrees in engineering were 
awarded by all educational institutions.

It will require a national awareness 
and concentrated effort to bring resources to the opportunity, diffels said.

"We've heard about the loss of productivity, the low quality of our productivity, the low quality of our products, high interest rates and taxes, or 
we're-regulation, inflation, the rising 
cost of energy, scarcity of critical materials and environmental problems,"

Giffels said.

"All the preceding and the preceding and the preceding of a growing on the side of the Pacific Ocean is 
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the objectives of better products and productivity, the outlook for the auto industry will be dismal.

industry will be dismal.

"We ve already lost the battle to our foreign competitors in high quality cameras, television, steros, watches and small computers. Other industries like steel and heavy industrial machinery are also in the middle of a very tough battle.

"Precident Particular Particular

"President Ronald Reagan said we now have the national will to do what we all know we must. This will be the great test of our national resolve. I hope our legislators have the courage to do the job that's needed to provide the part of our equation called opportu

When the message about the country's shortage of engineers gets out, the free market law of supply and demand will provide the needed professionals, Giffels said.



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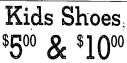
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