## Laser technology allows structural damage siting

A new application of laser technology—one that will allow quick detection of dangerous structural changes in large objects such as a dam, bridge, or building—is being developed at Oakland Thivar-sity

pranties in large objects such as a dam, bridge, or building—is being developed at Oakland University.

287.000 at low on Science Foundation has awarded 827.000 at low of the College of

structure.

No large scale measuring devices are now avail-able. Investigation of strain can be done by a cos-tly and lengthy point to point method. Strain can also be measured by gauges, but they cover only a small area of a structrue.

THE OU SCANNING device will allow engineers or safety inspectors to take a "moire gram" of an entire structure. This can be compared to later photographs to see if changes occur, Hovanesian says.

Says. The scanning device will consist of a laser light with two electronically controlled mirrors and a camera set off at an angle from the laser. The laser will scan a structure vertically creating a pattern of closely matched lines. The camera, photographing the process from the side, produces a

negative with the wavy, moire patterns. Sub-sequent photographs will show if there are any structural changes in the object.

The three grant winners are A.J. Durelli, inter-nationally known for his work in stress analysis and co-author of the book Moire Analysis of Strain, Mike Hung, active in holography research, and Hovanesian, an expert in moire technique analysis.

The two-year grant begins in January- and the professors hope to begin testing a scanning device by summer of 1979.

## Symphony performs Concerto Grosso

Local music lovers greeted the world premiere performance of Concerto Grosso for violin and orchestra, performed by the West Bloomfield Symphony Orchestra Sunday night, with a standing ovalunday night, with a standing ovalunday and thouse to its arranger-composer. Wade Marcus of Southfield.

Marcus, known for arranging recordings by Stevie Wonder and the Supremes for Motown Records, includes classical scores on his list of credits.

Violinist, and guest artist from the Detroit Symphony, Misha Rach-levsky of West Bloomfield, brought applause from a packed house at the West Bloomfield High School

auditorium with his solo interpretation of the Marcus arrangement. The violinist, a native of the Soviet Union, is presently founder and musical director of the chamber music series Solisti Barocchi. An atterglow following the concert provided symphony goers with an opportunity to meet with Rachlevsky, Marcus and other members of the orchestria. As world practices are sold provided and the series of the provided of CBs, and Cts recording artist Bill Withers. The next West Bloomfield Symphony concert is scheduled for Jan, I and will feature Plavlo Varani, a pianist and artist-in-residence at Oakland University.

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