

## Road Rhoades Works There

There are some appropriate names among the 5,000 employees of the Department of State Highways, including 16 Hilla, four Lanes, one Street, four Lakes, an Agate, one Stone, one Rivers, a Rodman, a Valley, one Parks and a Henry Ford Gary.

Names are not usually a problem, but several years ago a campaign to eliminate the gravel roads on Michigan's 9,200 miles of state highway caused one employee momentary apprehension.

His name, "Dusty" Rhoades.

## Elsea Realty Sales Hit All-Time High

Stamton, 41, Elisea/announced an all-time record volume of sales during the month of March when \$3,420,000 of real property was sold by his firm.

This is an increase of 47% over last year's March sales. In all, 304 properties were sold during the month of March for an average of 10 houses sold each business day.

The "jackknifed" bridge, on M-104 near Grand Haven was opened 7,000 times for boats in the year before it was replaced in 1965 by a high-level span, the State Highway Commission reports.



**ALL PACKED UP** — Ready for their duties as hosts of the Regional Meeting of the Sweet Adelins in the Masonic Temple this weekend these members of the South Oakland Chapter pause for a moment before setting up shop in Detroit. From left are: Ann Courville and Bobbie Reid, co-chairmen of the Friday evening after glow; and Show Chairman Joyce Little. The trio are members of the SMOMS octet which will perform during the Saturday night show featuring the South Oakland chapter.

## Set Dept. Of Urban Planning

**ANN ARBOR** — A department of urban planning has been established in the University of Michigan College of Architecture and Design. Regents voted to set up the unit and appointed Prof. Gerald E. Crane, a faculty member since 1965, as its chairman.

With the increasing urgency of urban problems throughout the state and nation, it had become imperative that this need be recognized by the establishment of such a department, Dean Reginald F. Malcolmson said.

"For the past 22 years a graduate program in city planning has been in existence as part of the department of architecture. The establishment of a separate department of urban planning will enable the university to attain a position of leadership in planning education by attracting exceptional students and a distinguished faculty."

## 3-D Laser Images May Be Invaluable As Optic Aid

A Wayne State University engineering professor who lives in Farmington is producing three-dimensional images in a unique process which already promises to be invaluable in the detection and correction of eye abnormalities such as glaucoma.

The process, called holography, is being perfected by Dr. Joseph D. Hovanesian, of 34855 Freedom Rd., who utilizes the laser beam to reproduce images suspended in mid air.

The laser, developed in 1961, emits an intense parallel high quality beam of light which has been used in surveying, aligning precision tools, transmitting sounds, welding and, if strong enough, burning holes in metal and concrete.

At Wayne State, Dr. Hovanesian hopes to use holograms—3-D images—to measure the optical properties of the cornea of his eyes and abnormalities such as skewed muscle tension, and record the stress of fluid pressure on the cornea, a cause of glaucoma. The medical process being used now is tedious and not very accurate, says Dr. Hovanesian.

With the unique process, measurement changes in the eye as minute as one one-thirtieth of an inch can be detected.

In making a hologram, the process begins similar to any regular photographic process. Dr. Hovanesian exposes a photographic plate to an object, but instead of regular light, the crimson red laser beam is used to illuminate the object.

After developing the plate, the object is not visible like an object on a regular photographic negative. It cannot be seen by the human eye until the plate is again exposed to the beam. But once the plate is perfectly aligned to the laser beam, the results are almost unbelievable.

Recently, Dr. Hovanesian has been using the Old English type beer mug as his subject. By manipulating the four-by-five-inch photographic plate in front of the beam, Dr. Hovanesian can make the suspended image of the mug turn right or left, making the handle become dominant or almost disappear; or he can make the image move up and down, as if a person was concentrating his sight on the mug's broad base or peering into its depths. "The actual object in 3-D," says Dr. Hovanesian.

The plate, instead of being a replica of an object, acts as a scrambled storehouse of information about the object which does not become visible until exposed to the laser. Theoretically, an infinite number of holograms can be put on one four-by-five-inch plate.

Another exciting part of Dr. Hovanesian's research is the application of the holographic process to education. The holographic image could be projected onto a screen so an instructor, trying to emphasize a specific part of an object under study, could by manipulating the plate, actually "bring forward" vital areas not easily visible by the classroom audience.

## LIT Honors 6 Livonia Area Pupils

Six area residents have been named to the Dean's Honor Roll at the Lawrence Institute of Technology for academic excellence during the past term. All have maintained better than a 3.5 scholastic average out of a possible 4 point.

They are: Merle J. Poplars, of 38525 Pembroke, Livonia. He is a sophomore in Electrical and Electronic Technology and graduated from U. of D. High School.

Glen E. Russell, 15075 Hubbard, Livonia, a senior in the school of Industrial Management. He graduated from Taylor High School.

Thomas C. Wallace, of 40294 Colvins, Livonia. He is a sophomore in the school of Mechanical Engineering and graduated from Redford High School in Detroit.

Gordon W. Jewell, of 39963 Ross, Livonia. Jewell is a junior in the school of Industrial Management and graduated from Plymouth High School.

Harold Brown of 14243 Cayell, Livonia. He is a junior in Industrial Management and graduated from Pershing High in Detroit.

Carl L. Scott, of 19412 Wal-kenden, Detroit. He is a senior in Electrical Engineering and graduated from Redford High School in Detroit.



**COMPLEX EQUIPMENT** — Dr. Joseph D. Hovanesian of Farmington stands in his Wayne State University laboratory with apparatus needed to produce a hologram. At top is the laser with a beam jetting forth. The crimson red beam is split and refracted by the apparatus, making possible the illumination of an object. The Old English mug is one of Dr. Hovanesian's recent subjects.

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