

## Dow Grows In Torrance; Products Told

The Dow Chemical Company's plant at Torrance is continuing to grow.

The latest indication of this came early in 1962, when it was announced that an expansion of facilities for the production of high impact polystyrene was under way. The expansion was completed later in the year. Dow first started production of high impact polystyrene at Torrance in June, 1958.

Growth at Dow's Western Division facilities at Torrance has been steady since 1953, when production of plastics was started here by Dow.

During the past few years, for instance, two new products have been added to the plant's list: polypropylene, a versatile, comparatively new plastic expected to find a wide range of use; and Roofmate, which in essence consists of asphalt laminated Kraft paper wrapped around a 2-foot by 4-foot board of Styrofoam.

For several years, Dow has also produced two other products at Torrance — Styron, the trademark name for the Dow family of thermoplastic molding compounds made from styrene; and Styrofoam, a lightweight plastic foam material with a long record of successful use in building insulation and other applications.

Dow also maintains a Plastics Development and Service Laboratory at Torrance. Staff members of the laboratory work with engineers and customers throughout the West, the object being to make the most of the properties and characteristics of Dow plastics. In addition, the laboratory works on potential new uses for plastics.

"Too, the fact that the West as a whole and southern California in particular are growing can't be overlooked as a factor of growth at Torrance.

"We're proud of what's happened here during the past decade, and we're optimistic about the future."

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## Douglas Experiments With Light Beams To Send TV Programs, Phone Calls

A significant step toward the use of powerful laser light beams for mass transmission of television, radio and telephone signals has been announced by National Engineering Science Co. and Douglas Aircraft Co.

The firms jointly reported the development of a laser demodulator, a prime component in the receiver portion of any laser communications system.

To date, several of the demodulator tubes have been assembled and successfully used in laboratory tests to receive light signals known to be modulated at microwave frequencies.

"This is a significant advance toward a revolutionary communication system," said scientists, pointing out that a laser light beam potentially has a far greater message-carrying capacity than any means of communication now in use.

Scientists have estimated that one pencil-thick laser beam is capable of transmitting simultaneously 100 million television programs or of transmitting more than the total of all the television and radio programs and telephone conversations occurring throughout the world at any one time.

Schuyler Kleinbans, director of advanced research for Douglas, said the company is very interested in the potential of the laser beam for communication over the vast distances of outer space.

"Scientists have demonstrated the range capabilities of a laser beam by focusing it on the moon and detecting its reflection," he said. "In addition, a laser beam communication system has the military advantage of being virtually eavesdrop-proof, unlike radio transmissions," he said.

### NEW TECHNIQUES

Through new techniques in surgery, developed with heart valves now can be repaired, inborn heart defects corrected and diseased arteries replaced.

A group of Stanford University scientists had succeeded in demodulating laser signals some time ago.

In their experiments they

used a photo emissive cathode.

The goal of the Douglas program has been to develop a simpler device.

## Military, Civilians Served By Douglas Torrance Plant

The Douglas facility at Torrance, part of the Aircraft Division headquartered at Long Beach, has become so diversified that it makes an unusual variety of products.

"We are in a significant position," Howard Cleveland, assistant general manager, said, "to undertake production for both military and commercial customers."

"Our facility always has been fortunate in its abundance of special skills and modern machinery," Cleveland said. "For these reasons we have been able to make intricate components for the company's missiles and space division, along with work for the DC-8 Jetliner and the Navy's newest attack airplane, the A-4E Skyhawk."

More than 1000 of the

versatile Skyhawks have been delivered to the U.S. Navy.

In addition to the fabrication of parts for the Skyhawk, the facility makes all military spares for aircraft formerly built by Douglas and now in service with the Navy and Air Force. A multimillion dollar business, spares are produced for the A-1 Skyraider, the A-3 Skywarrior, the F-6A fighter, and the C-47 transport.

For many years, the Torrance facility has produced bomb racks for both Navy and Air Force airplanes. This line continues to be a high-volume operation which should extend long into the future.

Employment has stabilized at approximately 3100 employees and is expected to remain at that figure this year.

## A 'Home Away from Home' For Visiting Friends

Anticipating an influx of friends and relatives of South Bay residents, the neighboring Pen and Quill Hotel in Manhattan Beach announces that excellent accommodations will be available to help thwart an "invasion of privacy" by these 1963 vacationists.

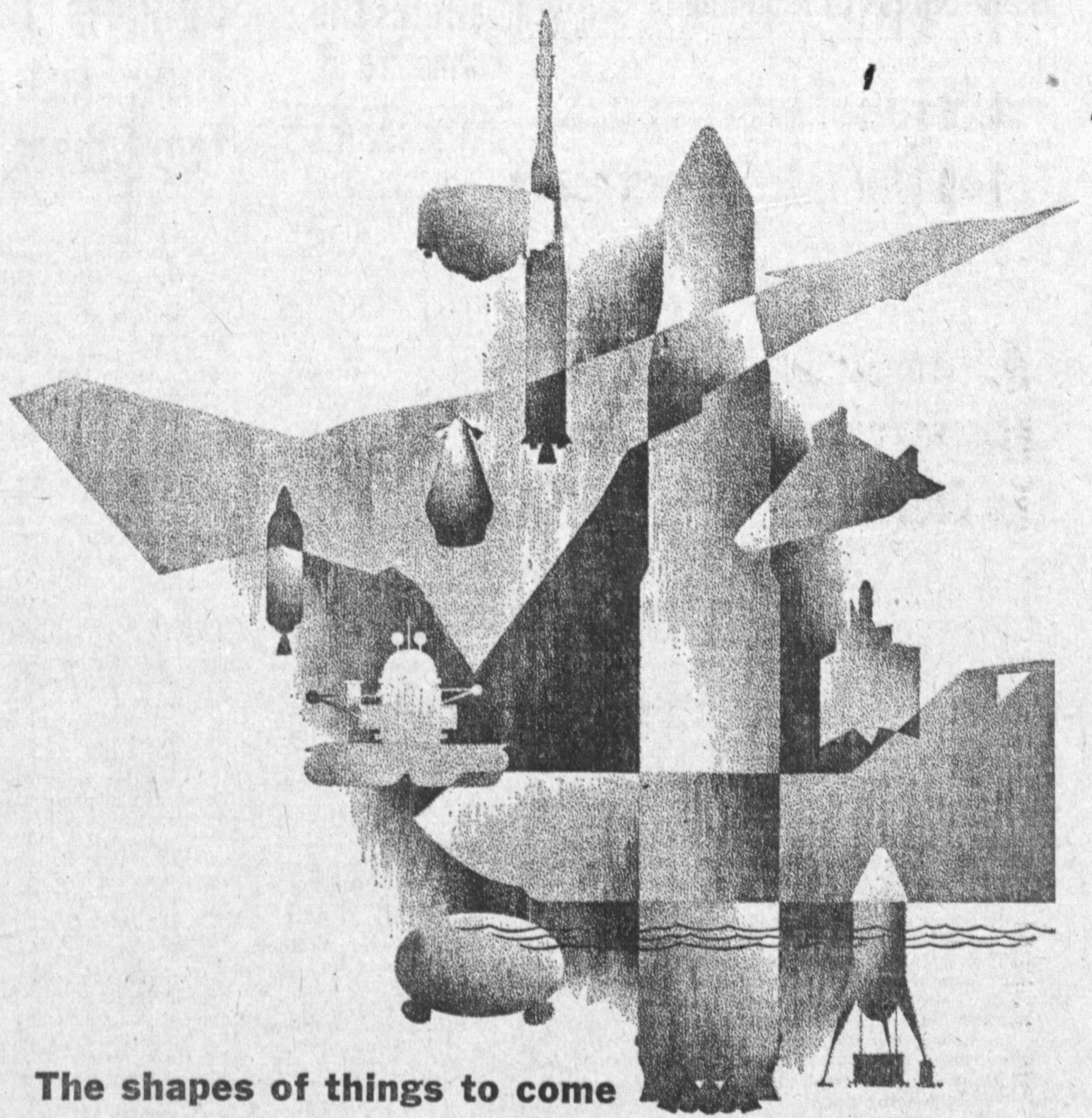
"No matter how dear your house-guests are to you, no matter how large your house or apartment may be," cautions Robert Reuben, president of The Pen and Quill, "no home affords complete privacy to both hosts and guests. An elegant hotel in close proximity to your home is the best solution to this vexing problem."

Primarily a resort hotel for peripatetic businessmen, the number of non-commer-

cial guests at The Pen and Quill has more than doubled in the past three months. Superb facilities, beautiful appointments and its convenient location are attributable to the hotel's upswing in occupancy by casual travelers.

"Warmth of welcome is never lessened by impressive 'out-side' accommodations," reminds Reuben. "In today's mode of living, such hospitality is widely favored by weekend visitors and over-night guests as a luxurious compliment — especially when those elegant facilities are so near their hosts."

Attesting to this opinion are some 600 signed hotel questionnaire cards, returned by guests who expressed a preference for freedom of movement to an invasion of privacy.



## The shapes of things to come

At Douglas we're planning many years ahead on ways to increase man's control of his space, air, earth and sea environments.

Missile and space systems are being developed of prime importance to America's defense now and in the future. Others will aid in the prediction and control of weather or be involved in world-wide telephone and television systems. Solar observatories and space stations are being planned, as

are giant manned space vehicles for solar system exploration.

Also receiving considerable attention is a complete space city in which men and women can live and work on the airless moon.

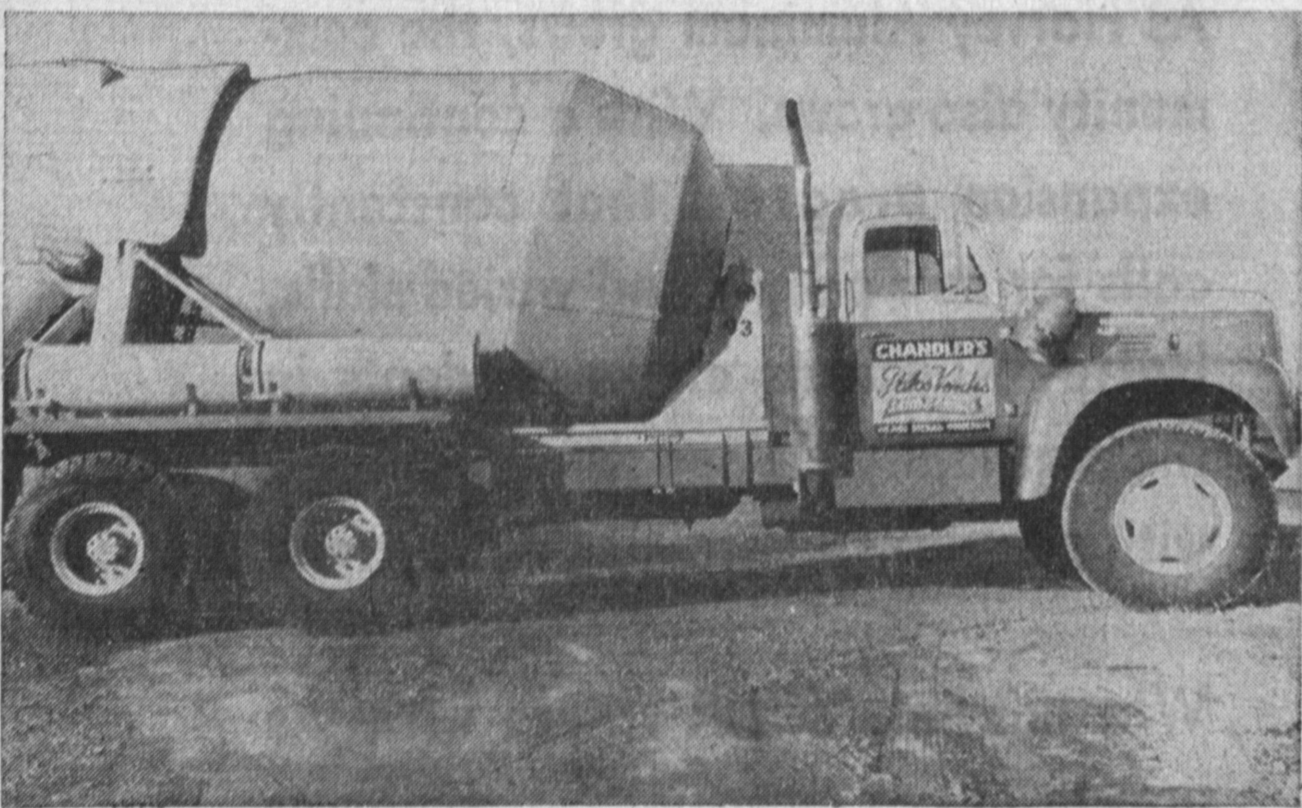
Closer to our home planet, Douglas has designed a jetliner that will fly three times faster than sound. Also under study are giant transports and freighters that will ride on a cushion of air only a few feet over sea or land.

And Douglas operates one of the world's most complete floating laboratories for research on what's happening in the depths of our oceans.

To do all these things, we'll need a lot of help. And we feel extremely fortunate in having a facility in the Torrance area, where so much skill and capability are available.

# DOUGLAS

## Three Locations To Serve Our Customers



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PALOS VERDES SAND AND GRAVEL COMPANY

## A TIME OF GROWTH

Particularly during the past few years, both the City of Torrance and The Dow Chemical Company's facilities at Torrance have grown.

The path to much of this progress has been paved by a willingness to work and grow together.

The year 1962 was no exception. Going into 1963, Dow believes that the future looks even brighter than ever before, both for the City of Torrance and Dow employees at Torrance.



## THE DOW CHEMICAL COMPANY

WESTERN DIVISION

Torrance, California