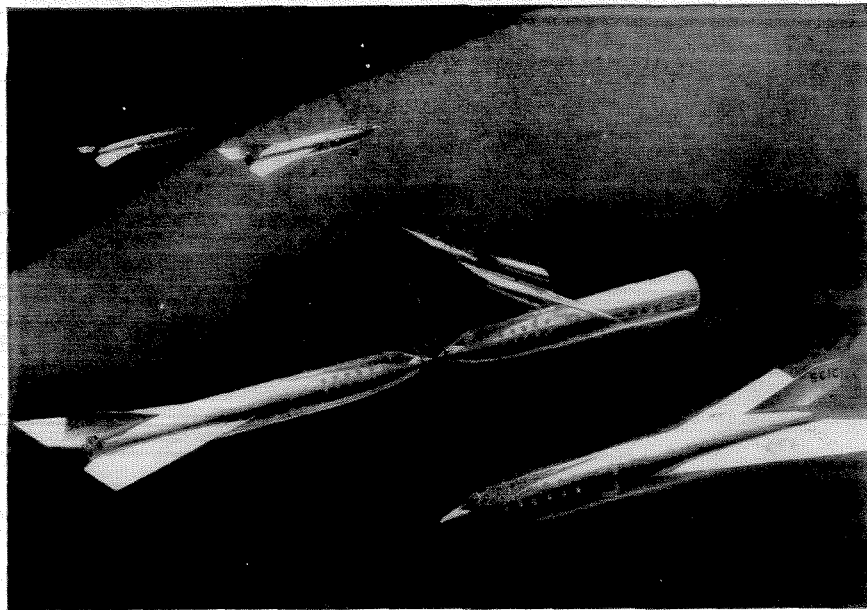


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MARS outstanding design **SERIES**



birth of a satellite

Most new ideas, like this inhabited satellite, start out as drawings on a sheet of paper. Here artist Russell Lehmann shows the first step in building the space station proposed by Darrell C. Romick, aerophysics engineer at Goodyear Aircraft.

Two ferry ships, one stripped of rocket units, are joined end to end. As others are added, this long tube forms temporary living quarters for crews. Eventually, outer shell will be built around core, making completed station 3,000 feet long, 1,500 feet in diameter.

No one can be sure which of today's bright ideas will become reality tomorrow. But it is certain that in the future, as today, it will be important to use the best of tools when pencil and paper translate a dream into a project. And then, as now, there will be no finer tool than Mars — from sketch to working drawing.

Mars has long been the standard of professionals. To the famous line of Mars-Technico push-button holders and leads, Mars-Lumograph pencils, and Tradition-Aquarell painting pencils, have recently been added these new products: the Mars Pocket-Technico for field use; the efficient Mars lead sharpener and "Draftsman's" Pencil Sharpener with the adjustable point-length feature; and — last but not least — the Mars-Lumochrom, the new colored drafting pencil which offers revolutionary drafting advantages. The fact that it blueprints perfectly is just one of its many important features.

The 2886 Mars-lumograph drawing pencil, 19 degrees, EXEXB to 9H. The 1001 Mars-Technico push-button lead holder. 1904 Mars-lumograph imported leads, 18 degrees, EXB to 9H. Mars-lumochrom colored drafting pencil, 24 colors.



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Books

The Universe
The Planet Earth
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Lives in Science

Scientific American Books
 Simon and Schuster

\$1.45 each

In 1956 the editors of *Scientific American* launched a series of paper-backed books with the publication of five titles—*The New Astronomy*, *The Physics and Chemistry of Life*, *First Book of Animals*, *Automatic Control* and *Atomic Power*. The books were made up of articles from the magazine, re-edited and grouped together to form reasonably comprehensive reports on specific fields of research. These first books were so well-received that the editors have now come up with five new titles.

The new books cover cosmology (*The Universe*), geophysics (*The Planet Earth*), research with plants (*Plant Life*), new developments in the field of chemistry (*New Chemistry*), and a collection of biographies of scientists (*Lives in Science*).

The articles in the new books are as clear and comprehensive as those in the original set, and the subjects covered this time should prove even more interesting to the general reader. The list of authors reads like the roster of *American Men of Science*, and Caltech is well represented in two of the volumes.

Plant Life includes articles by Frits Went, professor of plant physiology; James Bonner, professor of biology; and Frank Salisbury, who got his PhD at Caltech in 1956—and started his science-writing career in the same year by winning the *Engineering and Science* writing contest.

The Universe includes a collection of spectacular Palomar photographs; articles by H. P. Robertson, professor of theoretical physics; William A. Fowler, professor of physics; Fred Hoyle, visiting professor of astronomy; and Walter Baade, Rudolph Minkowski, and Allan Sandage, staff members of the Mount Wilson and Palomar Observatories.