



SHOOTING AT THE MOON—An artist's conception of a rocket striking the moon, a possible achievement in the coming year, was made on a photograph taken by the 100-inch telescope at Mount Wilson Observatory. New close-up views of the moon will be made in 1948 with the 200-inch Mount Palomar telescope.

ations, such as killing weeds by flaming them or treating them with 2,4-D chemical.

Under the U. S. Atomic Energy Commission, several high-powered research centers are getting underway. It will take many months for them to begin producing on a large scale, but the long time benefits will be great and some immediate results can be expected in 1948. Brookhaven on Long Island, N. Y., Argonne near Chicago, and Oak Ridge in Tennessee, are the principal laboratories devoted to general exploration of the results of atomic fission, as well as those that have military applications. Add to these the outstanding Radiation Laboratory at Berkeley, Calif., General Electric's atomic laboratory near Schenectady, N. Y., and dozens of projects in university and industrial labora-

tories and you have a full-blown attack upon the secrets of the atomic nucleus in all its ramifications.

Mental illness continues to be a great economic and social loss as well as personal disaster. Group psychotherapy is likely to grow in favor in the coming months and the general practitioner will be found to take a greater interest in the psychological aspects of medicine. Electric shock therapy is likely to be used less in the treatment of mental disorders.

Television broadcasting will continue to grow slowly, dependent upon the operation of radio relays and co-axial cables between cities as well as the sale of receivers. The New York to Boston radio relay for high frequency and frequency modulation will go into operation regularly.

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GENERAL SCIENCE

'47 Predictions Come True

➤ YOU had advance information on what would happen in science when a year ago you read the Science Service forecast for 1947. (See *SNL*, Jan. 4, 1947.)

In aviation, for instance, it was pre-

dicted that instrument push-button landings would come into use and the round-trip across the Atlantic was one of the past year's major flights.

The first jet-propelled transport took to the air, as foretold.

The CAA ordered radar installed in some transport planes as an anti-collision device. Availability of such radar commercially was forecast.

Doubt was expressed as to whether the National Science Foundation would be created. Congress and the President were unable to agree on how it should be operated and it is still unfinished national business.

The solar eclipse in May was observed by extensive expeditions. This was a sure thing, of course.

The great 200-inch telescope did not actually go into service, as hopefully predicted, but its mirror did make the journey to the top of Mt. Palomar.

Some new and useful insecticides were made known as foreseen.

Soilless gardens in Japan did begin providing our occupation forces with fresh vegetables.

The U. S. Atomic Energy Commission got its peacetime development and research program underway.

Some of the admittedly long shots predicted for 1947 did not come through, but are still future possibilities:

Discovery of the secret of photosynthesis.

Control and prevention of some kinds of cancer.

Discovery of a new chemical element.

Operation of an atomic energy plant.

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PHOTOGRAPHY

New Full Color Process For Movies Announced

➤ PRINTING motion pictures in full color, by a new process revealed by Polaroid Corporation, of Cambridge, Mass., produces three separate color images on a single layer of standard black-and-white film from three color separation negatives.

The new process is known as Polacolor. Use of this standard film and essentially the same processing equipment employed in black-and-white movies makes the process relatively inexpensive. The new full-color movies are suitable for showing in standard projectors.

Printing the three color images is effected by conventional devices. All the film materials, chemicals and processing agents are available commercially. The Polacolor silver sound track is exposed and developed along conventional lines and has the same characteristics as conventional sound tracks for black-and-white moving pictures.

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