

are beryllium 7, sodium 22, arsenic 73 and 74, iron 59, zinc 65, and iodine 125.

A total of 793 shipments of cyclotron-produced radioisotopes with a total activity of 4065 millicuries was distributed from June 1949 through June 1955.

■ The Nuclear Science and Engineering Corp. of Pittsburgh, Pa., is the first private American firm to produce radioisotopes in cyclotrons in order to supply industrial and medical users. Under the new program the company will produce, on request, any isotope that can be made with a cyclotron; in addition, long-lived isotopes for which a demand exists will be stockpiled. At present, prices are comparable to Atomic Energy Commission rates. A catalog of current radioisotopes can be obtained by writing to the firm at Box 10901, Pittsburgh 36, Pa.

■ Consolidated Engineering Corp.'s systems division has moved into new and larger quarters in Pasadena, Calif. The division has leased 4200 square feet of a new \$75,000 building near the company's main plant for its engineering and administrative operations. Formed only 18 months ago, the division has expanded its engineering staff fivefold in that time. Following careful study of customer requirements, systems engineers assume full responsibility for engineering, building, installing, and servicing automatic data-processing and industrial control systems.

■ The United Transformer Co., New York, has announced the start of operations at its new UTC-Pacific Division plant, located at 4008 W. Jefferson Blvd., Los Angeles, Calif. The plant is equipped with modern production facilities for the manufacture of all types of transformers, reactors, solenoids, variable-voltage transformers, control reactors, high-Q coils, and filters. Complete laboratory and test facilities have been provided.

■ Smith, Kline and French Laboratories will add a \$2,487,000 wing to the firm's present building in Philadelphia, Pa. This structure will complete the company's \$8-million expansion program started in 1954. The new wing will be completed by late 1956.

Miscellaneous

■ *Behavioral Science*, a new quarterly journal, official publication of the new Mental Health Research Institute at the University of Michigan, will begin appearing in Jan. 1956. It will contain articles on general theories of behavior and on empirical research specifically oriented toward such theories. An inter-

disciplinary approach to problems of behavior will be stressed. Although the scope of the journal will include all aspects of behavior which can be subsumed under broadly general interdisciplinary theory, in the field of application special emphasis will be placed on contributions relating to research in mental health and disease.

The editorial board will include Franz Alexander (psychoanalysis), Alex Bavelas (social psychology), David Easton (political science), Ralph W. Gerard (neurophysiology), Donald G. Marquis (psychology), James G. Miller (psychology and psychiatry), Jacob Marschak (economics), Anatol Rapoport (mathematical biology), Ralph W. Tyler (education), and Raymond W. Wagoner (psychiatry).

Subscriptions will be \$6 a year. Manuscripts and subscription orders may be sent to Dr. James G. Miller, Mental Health Research Institute, University of Michigan, Ann Arbor, Mich.

■ *Medical Horizons*, a television series on accomplishments in medical research, presented the first of some 26 half-hour programs on 12 Sept. This initial production of the Monday evening series, which is being sponsored by CIBA Pharmaceutical Products, Inc., of Summit, N.J., in cooperation with the American Medical Association, showed a demonstration of the heart-lung "by-pass" machine recently developed at the Mayo Clinic; this instrument facilitates surgery on the interior of the human heart.

The program will present live telecasts featuring outstanding leaders in clinical and experimental medicine; it will be telecast from major medical centers throughout the country. The next six programs will emanate from the State University of New York College of Medicine of New York City; the Kessler Institute, West Orange, N.J.; the Sloan-Kettering Institute; Memorial Center for Cancer and Allied Diseases, New York; Georgetown University Hospital, Washington, D.C.; University of Pennsylvania School of Medicine, Philadelphia, Pa.; and Johns Hopkins Hospital, Baltimore, Md.

■ A weekly series of 40 television programs dealing with vital problems in the fields of medicine and community health will be telecast beginning this fall over Station WGBH-TV, Boston, Mass., as a result of an educational grant made jointly to Harvard University and the Lowell Institute by the John Hancock Mutual Life Insurance Co. The series, entitled *The Facts of Medicine*, will originate in the department of preventive medicine at the Harvard Medical School. The first program will be presented on 6 Oct. at 8:30 p.m.

The selection of medical topics and their treatment as significant matters of public interest will be the responsibility of David D. Rutstein, head of the department of preventive medicine. The purpose of the series will be to provide accurate, up-to-date, and useful information about the newer developments in medical research and their applications.

■ *Frontier to Space*, a new series of 26 programs dealing with the fundamentals of rocketry and space exploration, has been accepted for national distribution by the Educational Television and Radio Center, Ann Arbor, Mich. The series was released the week of 18 Sept. and is available to all 14 educational television stations now broadcasting.

Intended to acquaint viewers with the basic problems of jet propulsion and the capabilities and limitations of rockets in their present state of development, the series was produced by the physical science laboratory of the New Mexico College of Agriculture and Mechanical Arts. Two of the programs deal with the development and the reasons for launching artificial earth satellites.

The series features discussions of rocketry by an authority on upper air research, R. K. Sherburne of the physical science laboratory of New Mexico A. and M. Sherburne is narrator for all 26 programs, which include demonstrations of rocket launching.

Frontier to Space was filmed with the assistance of the White Sands Proving Ground in Fort Bliss, Tex.; the Applied Physics Laboratory of Johns Hopkins University; the Naval Research Laboratory; the Upper Air Research Center of Sunspot, N.M.; and Holloman Air Force Base. Producers of the show are Paul Rader and Fred Lawrence and the director is Joe Lacovic. The Educational Television and Radio Center later will offer *Frontier to Space* to schools, colleges, and universities and other community organizations through its extended services program.

■ A survey of the scientific literature on radiation sterilization is contained in four Federal Government research reports recently made available to industry by the Office of Technical Services, U.S. Department of Commerce. The reports were prepared by Quartermaster Food and Container Institute for the Armed Forces.

Experimental treatment of foods such as meat, dairy products, vegetables, and flour with low doses of radiation has resulted in extended storage life of the foods. Meat can be stored for several weeks after such treatment. The radiations also serve as growth inhibitors that eliminate or delay potato and onion sprouting.