

A HIGH YIELD NEUTRON SOURCE FOR ACTIVATION ANALYSIS

Texas Nuclear's activation analysis laboratory is built around a new, more powerful neutron source—the series 9900 neutron generator. By means of the prolific T (d,n) reaction and a positive ion beam current of 2.5 ma, the 9900 produces a 4-pi yield of 2.5×10^{11} n/sec and a fast neutron flux ranging from 5×10^9 to 5×10^{10} n cm⁻² sec⁻¹.

In addition to the continuous-output 9900, other models of neutron generators are available with ion source pulsing, beam deflection pulsing, or dual pulsing—a combination of both ion source and beam deflection pulsing which minimizes residual beam current. Both 100 kv and 150 kv models are available. All come with ion-type vacuum systems and remote control consoles.

The instruments in the activation analysis laboratory include a rapid sample transfer and programmer system, a dual-crystal (3" x 3") scintillation detector and shield, a flux monitoring system, and a newly developed analyzer system designed for the reduction of as many as four gamma-ray lines in a complex spectrum. This system includes a 400 channel pulse-height analyzer, a multi-scaler programmer, and associated power supplies and readout. Descriptive literature is available on request.

NUC:N-4-220



TEXAS NUCLEAR

A SUBSIDIARY OF NUCLEAR-CHICAGO CORPORATION
349 Howard Ave., Des Plaines, Illinois 60018

various subjects in fisheries and aquatic resources of North America and other global regions. A wide range of subjects is covered, such as pollution, limnology, ichthyology, fish culture, fishery management, fish nutrition, fish parasitology, and so forth.

Two index issues of the *Transactions* are available, one covering 1872–1928, the other from 1929–1952. Special Publication No. 2, "A List of Common and Scientific Names of Fishes from the United States and Canada," is published by the Society. This reference is the only publication of its kind available and is in wide demand.

A *Newsletter* for the membership is published six times a year. The Society also has available a brochure entitled "Fisheries as a Profession" which serves as a career guide for students interested in entering the field of fisheries. This publication is made available to all high schools or to individuals who are seeking information on this career field.

The Society issues professional certificates to its members who are qualified by academic standing or experience in the field of fishery biology.

ELWOOD A. SEAMAN,
Secretary-Treasurer

1404 New York Avenue, NW,
Washington, D.C. 20005

Medical Library Association

The Medical Library Association came into being with a meeting of eight persons—four physicians and four librarians—in the editorial offices of the *Philadelphia Medical Journal* on 2 May 1898. At first the organization was called "Association of Medical Librarians" but at the 10th annual meeting (1907) the name was changed to its present form.

The objectives of the Association are the fostering of medical and allied scientific libraries, the exchange of medical literature among its members, and the improvement of the professional qualifications and status of medical librarians.

Membership may be on an institutional basis, provided that the medical or allied scientific library concerned meets standards of size, organization, and maintenance. Membership is also open to individuals engaged in professional medical library work, and in an associate status to persons in-

terested in medical and scientific libraries. The total membership of the MLA at present is approximately 1800, with over 750 institutional members included.

Annual meetings of 4 to 5 days are held in various parts of the United States and Canada; regional group meetings of 1 to 3 days occur between regular conventions. There are now nine such regional groups. Medical school, medical society, dentistry, pharmacy, hospital, and public health libraries are represented in the organization. The 63rd annual meeting of the Association will be held in San Francisco, Calif., 1-5 June 1964.

The Association publishes a quarterly journal, the *Bulletin of the Medical Library Association*, which has gained an enviable international reputation. Other publications include: *Vital Notes on Medical Periodicals*, local checklists of serial holdings, the *Handbook of Medical Library Practice*, and the beginnings of a new monographic series.

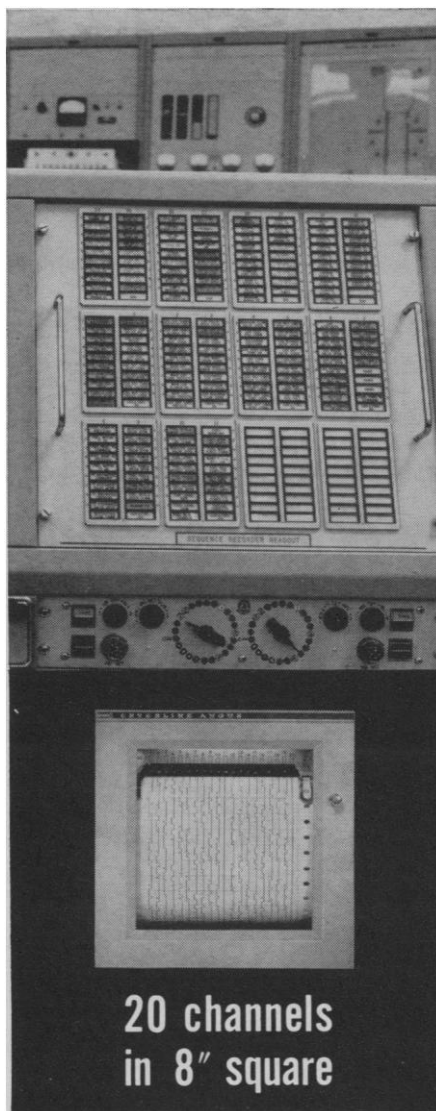
A prime activity of the organization is its exchange program whereby libraries "trade" their duplicate materials with one another. A certification program was initiated in 1947, which in turn encouraged special internship training programs and courses in medical librarianship offered in a number of universities throughout the country. Sponsorship of training of foreign students in medical librarianship has been one of the Association's more successful ventures.

The Association became affiliated with AAAS during the 1962 meeting in Philadelphia. The current officers of the MLA are: president, Louise Darling (University of California); vice president and president-elect, Estelle Brodman (Washington University); secretary, Myrl Ebert (University of North Carolina); treasurer, Carroll Reynolds (University of Pittsburgh); past president, Frank B. Rogers (University of Colorado Medical Center). The council representative to the AAAS is Sanford V. Larkey (Johns Hopkins University). The office of the Association is at 919 N. Michigan Ave., Chicago 11, Ill., and the executive secretary is Helen B. Schmidt.

FRANK B. ROGERS

Denison Memorial Library, University of Colorado Medical Center,
4200 East 9th Avenue,
Denver, Colorado

13 MARCH 1964



20 channels
in 8" square

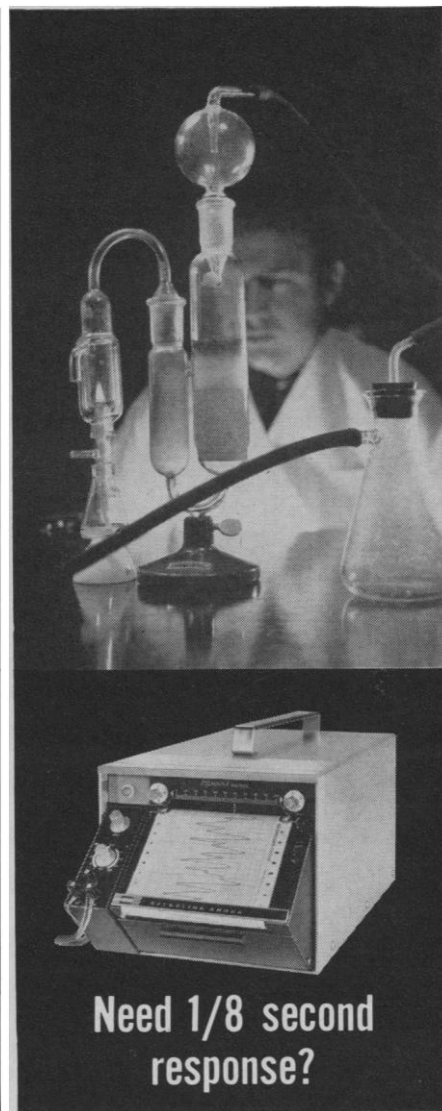
That's all the space you need to install flush model Esterline Angus inkless or ink-type Event Recorders. And the portable with sloped writing surface occupies comparable small bench top space.

Data can be recorded on charts moving as fast as 6" per second or as slow as $\frac{1}{4}$ " per hour. Any number of instruments can be remotely switched from low to high speed. And 14 immediately adjustable chart feeds can be selected.

With both flush and portable models, you get 20 channels of continuous records, instead of hard-to-interpret "skip" writing of other event recorders. You get full $\frac{1}{4}$ " pen deflection when an event occurs.

Write for catalogs which describe Event Recorders.

ESTERLINE ANGUS INSTRUMENT COMPANY, INC., Box 596L, Indianapolis, Indiana 46206



Need $\frac{1}{8}$ second
response?

Only the Esterline Angus Speedservo has it. Eight times faster than most, the Speedservo records 4 cycle per second signals without significant attenuation, and handles virtually all signals, even those of one millivolt level.

Its unique shuttle servo motor has no drive cords to break or gears to wear. One-piece construction of drive coil, pen assembly and sliding contact provides low inertia and accompanying high response speed.

The Speedservo's feedback potentiometer has virtually unlimited life.

The Speedservo is available in the illustrated portable, sloped writing surface model or in a flush model with 8" x 8" case front.

Write for Series "S" catalog.

ESTERLINE ANGUS

Excellence in instrumentation for over 60 years