

Anderson, New Mexico College of Agriculture and Mining, State College.)

6-8. American Inst. of Chemists, Atlantic City, N.J. (L. Van Doren, American Inst. of Chemists, Inc., 60 E. 42 St., New York 17.)

6-8. American Pediatric Soc., Buck Hill Falls, Pa. (A. C. McGuinness, 2800 Quebec St., Washington 8.)

6-9. National Science Fair, 10th, Hartford Conn. (Science Clubs of America, 1719 N St., NW, Washington 6.)

6-10. Infectious Pathology, intern. cong., Milan, Italy. (A. Janussi, Secretary General, via Boccaccio 25, Milan.)

7-9. Midwestern Psychological Assoc., Chicago, Ill. (I. E. Farber, Dept. of Psychology, Univ. of Michigan, Ann Arbor.)

7-9. World Cong. on Agricultural Research, International Confederation of Agricultural Engineers and Technicians, Rome, Italy. (CITA, Regional Secretariat, 86, via Barberini, Rome.)

8-10. Uranium, 4th annual symp., Moab, Utah. (AIME, 29 W. 39 St., New York 18.)

9-11. International Soc. of Acupuncture, 10th cong., Paris, France. (SIA, 8 avenue Franklin Roosevelt, Paris 8^e.)

10-15. Society of American Bacteriologists, St. Louis, Mo. (E. M. Foster, Univ. of Wisconsin, Madison 6.)

10-14. American Soc. of Maxillofacial Surgeons, Chicago, Ill. (O. H. Stuteville, 700 N. Michigan, Chicago 11.)

11-13. Instrumentation and Computation in Process Development and Plant Design, symp., London, England. (Institute of Chemical Engineers, 16, Belgrave Sq., London, S.W.1.)

11-13. Microwave Theory and Techniques, natl. symp., Boston, Mass. (H. Pratt, Inst. of Radio Engineers, 1 E. 79 St., New York 21.)

11-13. Power Instrumentation, natl. symp., Kansas City, Mo. (H. H. Johnson, Consolidated Edison Co. of New York, Room 1515-S, 4 Irving Pl., New York 3.)

13-16. Human Biochemical Genetics, Ciba Foundation symp., London England. (G. E. W. Wolstenholme, Ciba Foundation, 41 Portland Pl., London, W.1.)

14-15. Operations Research Soc. of America, Washington, D.C. (H. J. Miser, Rt. 2, Box 211, Vienna, Va.)

14-16. Acoustical Soc. of America, Ottawa, Canada. (W. Waterfall, 335 E. 45 St., New York 17.)

14-17. American Acad. of Dental Medicine, 13th annual, Atlantic City, N.J. (H. A. Lentz, 619 Main Ave., Passaic, N.J.)

14-16. American Assoc. of Physical Anthropologists, Madison, Wis. (E. E. Hunt, Jr., Peabody Museum, Harvard Univ., Cambridge 38, Mass.)

17-21. American Ceramic Soc., 61st annual, Chicago, Ill. (C. S. Pearce, ACS, 4055 N. High St., Columbus 14, Ohio.)

17-21. Institute of Food Technologists, 19th annual, Philadelphia, Pa. (C. S. Lawrence, IFT, 176 W. Adams St., Chicago 3, Ill.)

17-23. Antibiotics, intern. symp., Prague, Czechoslovakia. (M. Heřmanský, Antibiotics Research Inst., Roztoky near Prague, Czechoslovakia.)

17-23. Mass Spectrometry, 7th, Los Angeles, Calif. (A. G. Sharkey, Jr., U.S. Bureau of Mines, 4800 Forbes Ave., Pittsburgh 13, Pa.)



*No. 24268 Beckman line-operated DU Spectrophotometer, complete with photo-multiplier, dual source unit, pair of silica cells. \$2995.00

Will keeps your lab equipment performing

Whether you purchase a spectrophotometer, a pH meter, a microscope, or any other instrument from Will, you can be sure that an experienced Will technician is ready to keep it in top working order.

At each supply and service center, Will maintains a staff of factory-trained experts and complete facilities for the repair of Beckman, Coleman, Spinco and other electronic devices. At Rochester, there's a Will service center for renovating your microscopes, too.

Throughout the Eastern U.S., Will specialists are ready to render prompt and effective emergency service, whenever you may need it. Periodic maintenance of Will-supplied apparatus is always available at reasonable cost . . . and major overhauls are handled efficiently and without delay.

The next time you invest in complicated and costly apparatus, *be sure* that the finest local service is behind it. It's easy to do! Just order from Will!

A progressive past . . .



. . . a progressive future

Will CORPORATION
and subsidiaries



**Specialists in
Scientific Supply**

ROCHESTER 3, N.Y. • ATLANTA 1, GA. • NEW YORK 52, N.Y. • BALTIMORE 24, MD.
BUFFALO 5, N.Y. • SO. CHARLESTON 3, W. VA.

IS YOUR GUESS WORTH \$100?



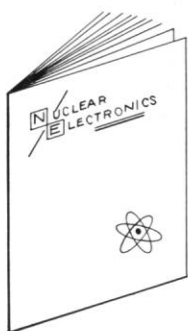
SCALER RATEMETER SERIES

COMBINATION
No. 222

In January, 1959 this standard production model single channel analyzer, selected at random, was placed in operation. Since that time it has been counting the 0.662 mev gamma of Cs^{137} . HOW LONG WILL IT OPERATE WITHOUT A FAILURE OF ANY COMPONENT INCLUDING VACUUM TUBES?

\$100 Prize for the Closest Guess

EASY . . . Just put your guess, name and company address on the back of a post card and mail it now. Contest is open to anyone . . . your colleagues may enter. Entries are limited to one per person.



There will be only one winner. In case of ties, earliest postmark will determine winner. Entries become property of Nuclear-Electronics Corporation and must be received before April 11, 1959. Decision of the judges is final. Employees and representatives of Nuclear-Electronics Corporation are excluded.

WRITE "New Catalog" on post card to receive your copy which describes this and other instruments.

**NUCLEAR
ELECTRONICS**
CORPORATION

2925 N. BROAD ST., PHILADELPHIA 32, PA. • BALDWIN 6-2300

Export Representatives: AD. AURIEMA, INC., New York

P. S. See us at the Atom Fair, April 6-10
Cleveland Public Auditorium
Booth #701

Equipment

The information reported here is obtained from manufacturers and from other sources considered to be reliable, and it reflects the claims of the manufacturer or other source. Neither Science nor the writer assumes responsibility for the accuracy of the information. A coupon for use in making inquiries concerning the items listed is included in the postcard insert.

■ **RADAR TARGET SIMULATOR** for X-band radar provides a delayed target to a pulse radar at its microwave frequency. The target pulse is locked to the radar frequency by an automatic frequency control loop. Power output is adjustable from -10 to -80 dbm. Target velocities up to 5000 ft/sec, acceleration up to 30 g, and ranges up to 30 mi are available. (Remanco, Inc., Dept. 626)

■ **PRESSURE-GAGE PROTECTOR** is designed to protect such pressure-measuring devices as manometers, draft gages, pressure switches, and low-pressure transducers. The device will reopen after sealing at 2 percent below the cut-off point. Four ranges are available, covering pressures from -15 to +85 lb/in.² (gage). (Industrial Engineering Corporation, Dept. 632)

■ **TELEVISION CAMERA** for industrial applications automatically accommodates a light range of 120 to 1, equivalent to adjustment from $f/1.5$ to $f/16$, with 50 percent change in output level. Beam, target, and electrical focus circuits are also automatically adjusted to optimum values. Dimensions are $6\frac{3}{4}$ by $5\frac{1}{8}$ by $11\frac{3}{16}$ in.; weight is 10 lb. (Thompson Products Inc., Dept. 633)

■ **DIGITAL VOLT-OHMMETER** provides four switchable bipolar voltage ranges from 1 to 1000 v and four switchable resistance ranges from 1 to 1000 kohm. Polarity is automatically detected and indicated, and the decimal point is automatically indicated. Transistor circuitry, with no moving parts, is used. Reading time is less than 10 msec. Voltage accuracy is better than ± 0.1 percent for d-c and better than ± 0.25 percent for a-c. Accuracy of resistance measurement is within ± 0.25 percent of range. Measurement may be triggered at a rate up to 100 per second or may be controlled by pushbutton. Indication is in line and in plane. The instrument can drive printers, punches, and memory storage units. (Epsco, Inc., Dept. 635)

■ **PROJECTION COMPARATOR** for work in the 3 to 20 \times magnification range provides up to 3 in. of field coverage on the subject at one time. The optical system of the instrument is completely contained within the body of the unit. Observations may be made in ordinary light. (Stocker & Yale Inc., Dept. 648)

■ **POTENTIOMETER LINEARITY TESTER** evaluates the linearity of 1-, 3-, and 10-turn potentiometers. The device includes power supply, test voltage supplies, d-c amplifier, master potentiometer, and angular-position scale. Connections are provided for recording the data. For production testing, the unit will stop automatically when nonlinearity exceeds a preselected tolerance and will indicate percentage deviation from linearity on a panel meter. (Boller and Chivens, Inc., Dept. 656)

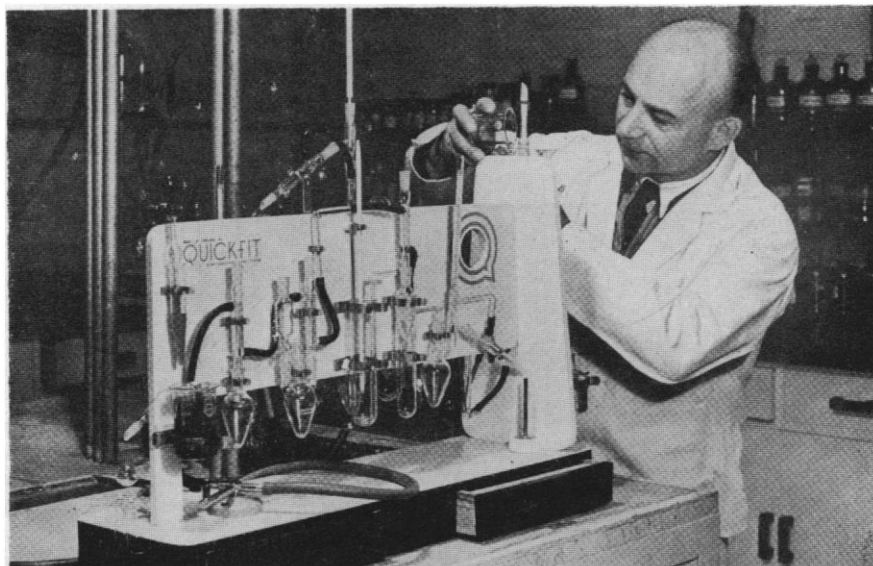
■ **PRESSURE-TO-FREQUENCY TRANSDUCER** is basically a variable inductance transducer in which the transducer coil is part of an integral oscillator tank circuit. Variation of the coil inductance caused by pressure acting on a diaphragm causes the oscillator frequency to vary from the pretuned value. Repeatability is ± 1 percent or better. Any of the 18 telemetering channel frequencies from 400 cy to 70 kcy/sec may be used. (Datron Electronics, Dept. 641)

■ **HIGH-TEMPERATURE FURNACE** provides temperatures to 3000°F. The resistance of the heating element used does not change with use; hence new and used elements may be connected in parallel or series. Standard models include a controller, platinum-rhodium thermocouple, and a transformer. Tube and box types are available. (Lucifer Furnaces Inc., Dept. 642)

■ **SAMPLE APPLICATOR** for paper chromatography accepts paper sheets up to 18¼ by 22½ in. A stream of air of adjustable temperature impinges on the under side of the paper for rapid drying. A pipette bracket pivots on a moving carriage so that vertical and horizontal positions of the pipette are conveniently controlled. The working area at the line of origin on the paper is back-lighted. (Research Specialties Co., Dept. 645)

■ **MICROWAVE ABSORBER** material is supplied as wet sand that is to be packed in place and cured with heat to a rigid absorber body. Three different bulk resistivities are available. Curing is accomplished at 300°F. (Emerson & Cuming, Inc., Dept. 640)

■ **COLORIMETRIC ANALYZER** automatically monitors chemical properties such as pH, water hardness, chlorine and phosphate concentration, and others. Sample liquid enters a metering chamber by gravity feed, and a measured volume is siphoned into a reaction chamber. At the same time a precise volume of reagent is added to the chamber, and the combined mixture is siphoned again into a lighted optical cell. Here the color may be compared with color standards or



PORTABLE LABORATORY

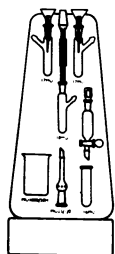
In recent years, semi-micro techniques have gained increased popularity, particularly in the analytical and organic fields. To meet the growing demand for a standard set of apparatus incorporating interchangeable joints. "Quickfit" has been developed for the research worker or student for whom it provides a very useful nucleus of apparatus.

All flasks are pear-shaped, the most effective form when liquids are evaporated down to a small bulk, bumping being eliminated in most cases. Heat-sensitive materials are heated under favorable conditions and decomposition is reduced to a minimum because the surface area of the liquid is small in proportion to its volume. Even at small volumes, the surface area exposed to the glass is relatively small. Any micro-burner—electric heater—or common Bunsen burner may be used as the source of heat.

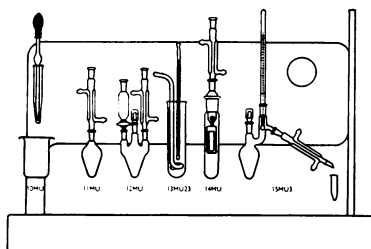
The apparatus is conveniently mounted on both sides of a board 28" x 16" x 8" and weighs only 14 pounds complete with the glassware. In this compact form, it is ideally suited for demonstrations as the assemblies are always kept together, ready assembled. When not in use, the entire set takes up only a small amount of storage space—in fact, the set is a complete organic laboratory in miniature. It may easily be carried in the back of a car as a travelling laboratory.

The base has a chemical and heat-resistant plastic top and includes 2 drawers for storage of spare parts, filter papers, etc. There are 3 built-in test tube racks to accommodate reagents. The condenser jackets are rubbered together in series and the apparatus is supplied completely assembled so that only one connection to water supply and drain has to be made. For transport, the thermometers and receiver tubes are dismantled and packed in the drawers.

Cat. No. S-71675 "Quickfit" semi-micro portable laboratory, consisting of fourteen assemblies of apparatus mounted on a board . . . Each \$175.00



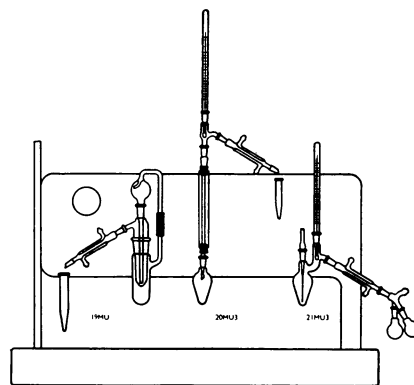
END VIEW



BACK VIEW

ASSEMBLIES SUPPLIED IN PORTABLE LABORATORY

Willstatter Filter (2) • Schwinger Filter • Separation • Ice Bath • Water Bath • Reflux • Reflux with Addition of Reactants • Melting Point Apparatus • Extraction • Distillation • Steam Distillation • Fractional Distillation • Vacuum Distillation



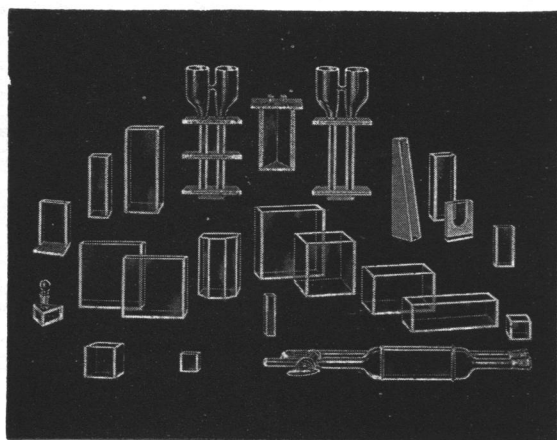
FRONT VIEW

STANDARD SCIENTIFIC
Supply Corp. 808 BROADWAY
NEW YORK 3, N.Y.

LABORATORY
APPARATUS
REAGENTS
AND
CHEMICALS

GLASS ABSORPTION CELLS

made by **KLETT**

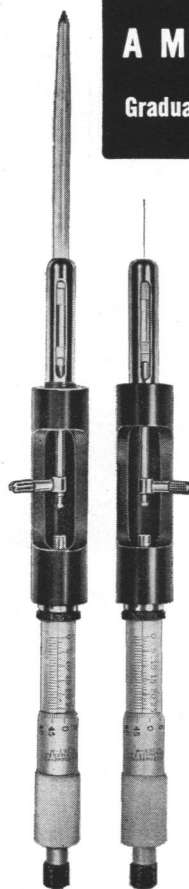


SCIENTIFIC APPARATUS
Klett-Summerson Photoelectric Colorimeters—
Colorimeters—Nephelometers—Fluorimeters—
Bio-Colorimeters—Comparators—Glass Stand-
ards—Klett Reagents.

Klett Manufacturing Co.
179 East 87 Street, New York, New York

A MICRO SYRINGE/BURETTE

Graduated In Units Of 0.0001 ml.



Volume of liquid delivered is precisely measured with a micrometer—down to 0.0001 ml.

Total capacity 0.25 ml.

Volume setting can be maintained for repeated deliveries of identical volumes.

Quickly converted from micro-syringe to micro-burette.

Teflon, glass, and stainless steel construction.

Write for Brochure SM

CALIFORNIA LABORATORY EQUIPMENT CO.
98 Rincon Road • Berkeley 7, California

Palo

DIRECT DRIVE STIRRER FOR THE MAJORITY OF A LABORATORY'S STIRRING OPERATIONS!



- Agitates 5 gallons of water thoroughly and continually
- Several of these can be used in place of multiple stirring units
- Inexpensive yet completely reliable

Model 7605
\$27.00

SPECIFICATIONS:

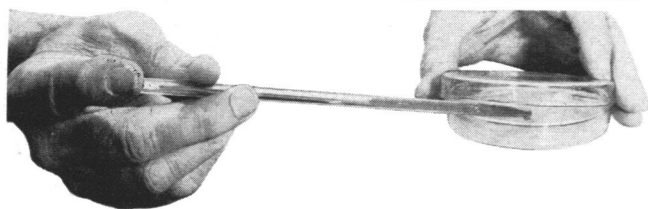
- Sturdy Bodine Series wound motor with bronze sleeve type bearings, 1/100 HP.
- Rheostat Speed Control to 5000 RPM.
- True running chuck 1/4" rods.
- Support rod—5".
- Weight 3 pounds.
- 110 Volts AC-DC.
- Stainless Steel mounting rod.
- Continuous duty.
- Can be mounted to any laboratory support with ordinary clamp holders.

7608 S—Paddle, stainless steel, 1/4" shaft diameter, 10" long, with 2", three bladed propeller. \$2.00

WRITE TODAY FOR THE NEW PALO PLASTIC CATALOG PA-81



PALO LABORATORY SUPPLIES, Inc.
81 Reade Street • New York 7, N. Y.



RELIABILITY is a must when tissue culture research demands special serums

Tissue culture laboratories throughout the nation find the imperative ingredient... reliability... at Colorado Serum Co.

Thirty-five years of serum production experience and constant research are embodied in every product. To insure the highest quality in a wide selection of animal bloods and serums, Colorado Serum Co. maintains a variety of fine animals.

Order with confidence from Colorado Serum Co.

NOW AVAILABLE
BOVINE FOETAL SERUM

WRITE FOR
FREE CATALOG
TODAY
No salesman
will call



COLORADO SERUM CO.



Laboratory and General Office
4950 York Street—Denver 16, Colorado—MAin 3-5373

monitored by a photocell. Accuracy of measurement of pH , for example, may be ± 0.5 pH unit with proper selection of indicators. (Florida Instrument Co., Dept. 653)

■ **NEUTRON COUNTER** is enclosed in an 8-in.-diameter paraffin-filled cylinder which moderates fast neutrons and discriminates against thermal neutrons. A concentric 15-in. diameter shield attenuates fast neutrons from the side. Ratio of front sensitivity to side sensitivity is 2 to 1 for 4.5-Mev neutrons. Detection efficiency is essentially independent of neutron energy from 50 kev to 5.0 Mev. Electronic components include a linear amplifier with pulse-level discriminator, a count-rate meter with eight ranges from 20 to 10,000 count/sec, a three-decade scaler, and a four-digit register. (Tullamore Electronics Laboratory, Dept. 651)

■ **SECTION-PROFILE PROJECTOR** permits inspection of turbine blade sections and the like. Two mercury-vapor lamps illuminate the two sides of the blade with a bright line of light. The line of light is viewed by two lens systems. The blade section contour appears on the screen as a dark image outlined by a bright band of light. The projector will inspect work up to 16 in. long, with $2\frac{1}{4}$ -in. chord and 45 deg or more twist. Dimensions can be measured to ± 0.0005 in. and twist to ± 5 min. (Eastman Kodak Co., Dept. 657)

■ **HIGH-SPEED CAMERA** operates at an upper rate of 25,000 16-mm frames/sec. Framing rate is indicated continually on a built-in meter. Exposure times are adjustable between 1 and 5 μ sec, and total writing time is 9 msec at the maximum rated speed. The camera measures 12 in. in diameter by 10 in. long. Weight is 28 lb. (Beckman & Whitley, Inc., Dept. 637)

■ **TRITIATED TARGET** consists of a titanium coating approximately 0.7μ thick containing 1 c of tritium per square inch. The films are on 2-mill thick stainless steel or molybdenum. The material produces ion currents greater than 10^{-7} amp/in.² in air. Absolute desorption rate is less than 0.1μ c/c day. (Radiation Research Corp., Dept. 638)

■ **CLOCK MOTOR** for d-c operation provides accuracy of 1 in 20,000 in a 24-hour period. Instantaneous speed is accurate to 1 in 3600. Power input is approximately 900 μ w. Power is supplied from mercury batteries which will operate the motor for more than 1 year. The output shaft rotates at 2.4 rev/min. Operating temperature range is 20° to 110° F. (Park Products Co., Inc., Dept. 654)

■ **NEUTRON GENERATOR** is a portable, self-contained unit in which neutrons are produced by the D-T reaction at a controlled rate up to a maximum of 10^8 per second. Essentially monoenergetic 14-Mev neutrons are produced. Components of the equipment are a neutron source tube, power supplies, and a control unit. The source tube is a small accelerator tube connected by a 16-ft cable to the high-voltage supply. Maximum ambient temperature is 35° C. Power requirement is 115 v, 60 cy/sec, 5 amp. (Schlumberger Well Surveying Corporation, Dept. 650)

■ **AUTOMATIC ANALYZER** performs automatically each step of a chemical analysis usually performed manually. Steps such as measuring, mixing, purifying, processing, comparing, and recording are integrated into a continuous flow system. The system is capable of single- or multiple-component determinations including cyanides, sulfur dioxide, silica, phosphates, iron, chlorides, copper sulfate, ammonia, sugar, and aluminum. Traces down to parts per 10^9 are said to be determined with accuracy ± 1 percent. (Technicon Controls Inc., Dept. 658)

JOSHUA STERN

National Bureau of Standards,
Washington, D.C.

(Continued from page 438)

sponsible for German war policy. These men expected an early decision of the war, even in 1942, and any major project which did not promise quick returns was specifically forbidden. To obtain the necessary support, the experts would have been obliged to promise early results, knowing that these promises could not be kept. Faced with this situation, the experts did not attempt to advocate with the supreme command a great industrial effort for the production of atomic bombs.

"From the very beginning, German physicists had consciously striven to keep control of the project, and had used their influence as experts to direct the work into the channels which have been mapped in the foregoing report. In the upshot they were spared the decision as to whether or not they should aim at producing atomic bombs. The circumstances shaping policy in the critical year of 1942 guided their work automatically towards the problem of the utilization of nuclear energy in prime movers."

In view of these excerpts, Jungk's representation of a humanitarian reluctance of German physicists to develop nuclear weapons appears to be an afterthought.

WILLIAM G. SCHLECHT

1851 Columbia Road, NW,
Washington, D.C.



PRINTING COUNTERS

FOR POSITIVE, ERROR-PROOF COUNT RECORDING



Model F272

A STURDY, ABSOLUTELY
ACCURATE AND LONG-SERVICE
INSTRUMENT... COUNTING
AND PRINTING ELECTRICALLY
ON TAPE OR CARD, WITH
AUTOMATIC RESET TO ZERO

- A completely machined instrument with parts subject to wear of case hardened steel, hard chrome plated.
- Exclusive parallel printing and visual registers yield count accumulation instantly and continuously.
- Printing and resetting to zero simultaneously, or separately.
- Counting rate 5 per sec. Reset and print 1 sec. For 110 VAC or 12 and 24 VDC operation.
- The finest instrument of its class — yet half the price of any other printing counter!

MADE BY  ...MANUFACTURERS OF THE MOST COMPLETE LINE OF COUNTING DEVICES IN THE WORLD!

Write for our new catalog today

PRESIN CO. 2014 BROADWAY
SANTA MONICA, CALIF.

SCIENTISTS and ENGINEERS

Dynamic new subsidiary of **Ford Motor Company** is now in initial stages of expanding military and commercial programs.

Positions are at ASI's interim Glendale facility and will also be at ASI's new Research Center now under construction at Newport Beach in Southern California. Work in an intellectual environment as stimulating as the locations are ideal—close to most of So. California's cultural, educational, and recreational centers.

Outstanding growth opportunities for qualified engineers and scientists are open in following fields:

OFFICE OF ADVANCED RESEARCH THEORETICAL RESEARCH—Hydrodynamic and radiation processes in tenuous gases at very high temperatures, ionization produced by soft X-radiation, hydrodynamics of solids at high pressures including studies of equations of state, infrared properties of the atmosphere and of hot gases, conversion of chemical energy into sound and the condensation rate of supersaturated vapors. Theoretical physicists are needed to work in these fields. Specific experience is not necessary. However, a general background in theoretical and mathematical physics is required.

You are invited to address inquiries to M. H. Johnson, Advanced Research Staff at our Glendale, California address.

Other unusual opportunities are open for qualified engineers and scientists in the following areas:

SPACE TECHNOLOGY DIVISION

Astrodynamics • Space Environment • Theoretical Physics • Electronics • Radar • Information Links • Automatic Controls • Mathematics • Combustion • Materials • Aerochemistry & Propulsion

COMPUTER DIVISION

Input-Output Equipment
Storage Units •
• Display Devices

TACTICAL WEAPON SYSTEMS DIVISION

• Aerodynamics
• Electro-optics
• Guidance and control

Qualified applicants for the above three divisions are invited to send resumes and inquiries to Mr. K. A. Dunn, 1234 Air Way, Bldg. 16, Glendale, California. Phone CHapman 5-6651.

AERONUTRONIC SYSTEMS, INC.

a subsidiary of
FORD MOTOR COMPANY
NEWPORT BEACH, GLENDALE,
SANTA ANA AND MAYWOOD, CALIF.

Federal Recruiting of Research Scientists

The news article "Young research workers sought for Washington area laboratories" [*Science* 128, 1614 (1958)] stated that because of the great "need for productive and creative research personnel" the Civil Service Commission is seeking "more than 200 of the country's most capable young men and women." Although not explicitly stated in the article, it is clear from the Civil Service grades involved that this search is designed to attract those holding a bachelor's degree.

Because I do not feel that the bachelor's degree offers sufficient preparation for these capable people to make the best use of their talents in scientific research, I believe that it would be better both for the young people involved and for our nation if the "country's most capable young men and women" were to engage in full-time graduate study before accepting career employment in research. Surely these highly talented people can obtain scholarship and other financial assistance, if needed, to enable them to continue their studies.

In the past, the Federal Government has often hired research scientists by methods which have proven successful for hiring clerk-typists. The results from these methods have not always been satisfactory, so now, in the guise of "a new approach," research scientists are to be recruited by methods ("Research Scientist Examination") which have proven successful for hiring administrators ("Management Internship Examination"). Although this is indeed a step forward, it is still apparent that the Civil Service Commission does not recognize the need to hire research scientists by methods tailored to the specific problems involved.

The normal time to start a professional career in government service is after the award of the bachelor's degree. Apparently the Civil Service Commission feels that the start of a research scientist's career in the Government should also be at the bachelor-degree level and has planned its recruiting program accordingly. Clearly, it is not understood by the Civil Service Commission that a longer period of academic training is normally required by high-quality research scientists than by managers and administrators.

I suggest that "a new approach to the problem of recruiting . . . productive and creative research personnel" would be for the Civil Service Commission to actively seek to identify and attract into government employment the more promising young men and women who have recently received their advanced degrees, especially at the Ph.D. level.

ARNOLD PROSTAK

Ann Arbor, Michigan

NEW OPPORTUNITIES IN RESEARCH . . .

Expanding pharmaceutical company initiating a broadened and accelerated research program offers excellent opportunities in basic research for:

Senior Research Pharmacologist—

Ph.D. with training or interest in cardiovascular research to supervise acute and chronic cardiovascular screening programs and study potential cardiovascular compounds including in vitro and in vivo testing.

Senior Research Pharmacologist—

Ph.D. with general pharmacology training and experience to direct screening program, plan and develop specialized pharmacologic experiments and new testing methods.

Parasitologist—B.S. or M.S. with training and/or experience in parasitology and good background in parasitic protozoology and helminthology to assist in problems concerning development of compounds in both human and veterinary field.

Virology—M.S. with virology or tissue culture training or B.S. with several years virology, immunology or tissue culture experience to assist in problems concerning human and animal virus infection and immunology.

Bacteriologist—B.S. bacteriology training essential to perform in vitro screening procedures with chemotherapeutic agents.

Senior Research Biochemist—Ph.D.

with strong organic chemistry background to study bio-chemical transformation of drugs, especially their fate in animal metabolism.

Biochemist—B.S. with chemistry major, biology minor, to assist in biochemical investigations relating to drug mode of action. Work involves small animal experimentation and analytical biochemistry.

. . . AND MEDICAL WRITING, ABSTRACTING: SCIENTIFIC INFORMATION

Senior Medical Editor—B.S. or advanced degree graduate with training in basic medical sciences and experience in editing, abstracting and writing to edit technical manuscripts for publication and write material for manuscripts and brochures.

Senior Information Scientist—Ph.D. with training in one or more Biological Sciences to screen and abstract unpublished scientific information, to develop and utilize coding processes in correlation of research data and to conduct liaison among Scientific Staff.

Translator-Scanner—B.S. with advanced biology, chemistry, medical sciences training and knowledge of several languages to scan current medical and other scientific periodicals and translate scientific information.

Company is located in small, progressive community in semi-rural area of central New York State. Modern laboratories, complete benefit program.

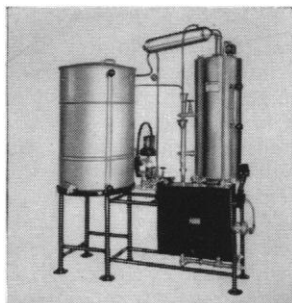
We will welcome your writing to us. Please forward résumé to:

Personnel Director
Eaton Laboratories Division
The Norwich Pharmacal Co.
Norwich, New York

BARNSTEAD

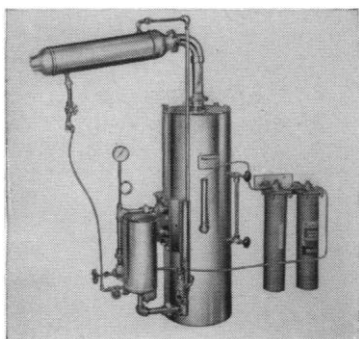
PURE WATER SPECIALISTS SINCE 1878

WATER STILLS and DEMINERALIZERS



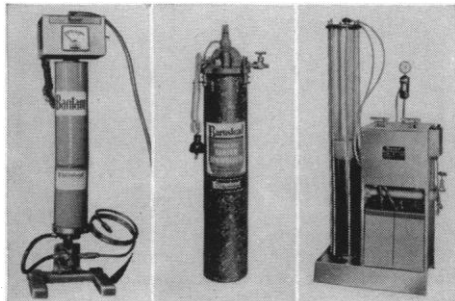
PUREST WATER AUTOMATICALLY

Barnstead Full Automatic Controls for water stills are self-starting . . . self-flushing . . . self-stopping. No human attention needed. Automatically guarantees a steady supply of distilled water of highest purity.



THE STILL YOU NEVER NEED CLEAN

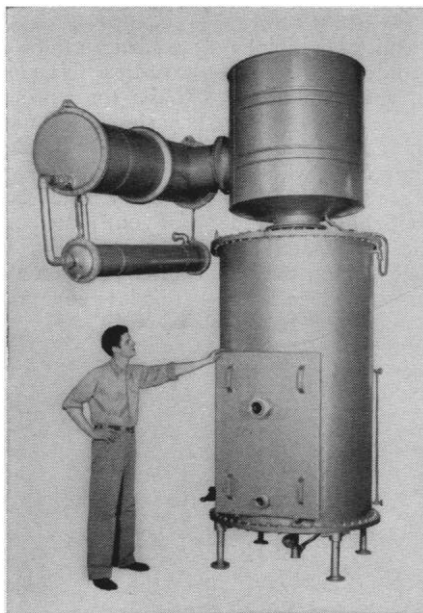
The NEW Barnstead Condensate Feedback Purifier for Barnstead Steam Heated Stills offers two important advantages. Produces distilled water of higher purity than ever before, and completely eliminates need for cleaning Still.



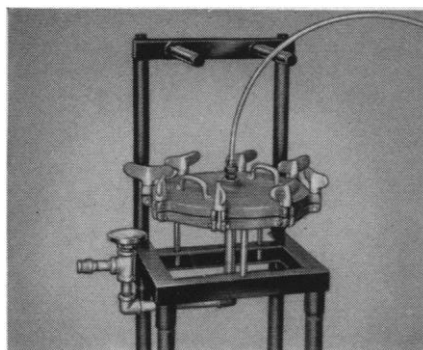
BANTAM DEMINERALIZER (BD-1) Connects directly to water supply. Disposable resin cartridge. Flow rate: 5 to 10 g.p.h.

PRESSURE BANTAM DEMINERALIZER (BD-2) Delivers demineralized water under pressure. 5 to 25 g.p.h. Pura-lite indicates cartridge change.

MIXED-BED DEMINERALIZERS (MM) in capacities ranging from 50 to 2500 g.p.h. Efficient and low cost in operation. Exceptionally high purity.

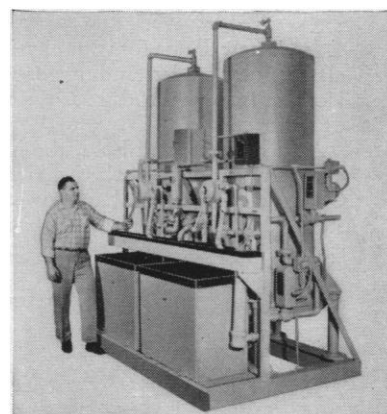


FOR PHARMACEUTICAL MANUFACTURERS. 300 G.P.H. PYROGEN-FREE WATER PRODUCED BY THIS MODEL SSQ-300 BARNSTEAD WATER STILL



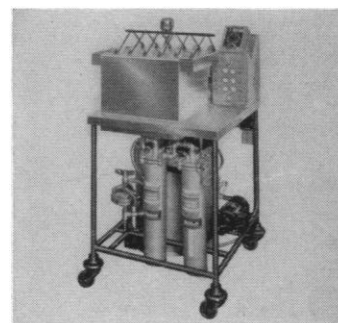
BARNSTEAD "MF" SUBMICRON FILTER FOR REMOVAL OF PARTICLES TO 0.45 MICRON

For either distilled or demineralized water . . . removes particulate matter which may cause trouble in some of the new processes in electronic and nuclear fields. Filters out particles as small as .000016 inches. Produces 15,000,000 ohm water in production quantities.



DEMINERALIZED WATER AT FLOW RATE OF 2500 G.P.H.

is produced by this Barnstead Model TM-6, Two-Bed Demineralizer. Complete package unit, factory assembled, ready to connect to raw water supply. Also Mixed-Bed, Single-Bed, Two-Bed, and Four-Bed Models. Write for catalog 127-A.



BARNSTEAD TRANSISTOR WASHER FOR WASHING TRANSISTORS, DIODES, RECTIFIERS, TUBE PARTS IN ULTRA PURE 15,000,000 OHM WATER

Faster rinsing and fewer rejects when hot, ultra-pure water is used in rinsing of electrical components. Barnstead Transistor Washer conserves thousands of gallons each day . . . as it repurifies the pure, hot water keeping it free of organic impurities and submicroscopic particles to 0.45 micron. Write for Bulletin #146.

BOSTON
Jamaica
4-3100

CHICAGO
Mulberry
5-8180

CLEVELAND
Academy
6-6622

Barnstead
STILL & STERILIZER CO. Inc.

SAN FRANCISCO
TEmplebar
2-5391

NEW YORK
Kingsbridge
8-1557

PHILADELPHIA
LOCust
8-1796

LOS ANGELES
RYan
1-6663

49 Lanesville Terrace, Forest Hills, Boston 31, Mass.

FIRST IN PURE WATER SINCE 1878

NOW!

you can have the most interesting class in your school!

Demonstrate complex phenomena of radioactivity easily, understandably with *Classmaster*®

Here's new drama for your physics, chemistry or biology classes, new understanding for your students of a subject that is so vital today . . . the why's, what's and how's of radioactivity.

You can get, and hold, the interest and attention of every student in every class, no matter how large, with the Classmaster. Even "the back-row gang" can see and understand Classmaster demonstrations, for a flashing light and speaker supplement the meter to indicate radioactivity.

In addition to its use as a complete demonstration and teaching unit in elementary courses, college level

students can use the Classmaster for biological tracer studies. Classmaster experiments provide a sound basis for advanced lab courses using more complex nuclear instrumentation.

Don't wait. Equip your students with the knowledge they need to live and function as useful citizens in this Atomic Age. Call this advertisement to the attention of your principal or board and urge immediate addition of this superb teaching tool. No progressive high school or college can afford to be without it . . . especially at this low, low price.



Nuclear-Chicago Model 1613A Classmaster consists of:

A Electronic radioactivity demonstrator with meter, flashing light, and speaker count indicators; regulated high voltage power supply. Operates on usual 110-volt circuits.

B, C and D Set of one each, lead, aluminum and cardboard cylinders to illustrate "scatter" produced by beta radiation.

E, F and G Set of 15 aluminum, 20 cardboard and 10 lead absorbers to demonstrate radiation absorption.

H Extendable probe with sensitive thin wall Geiger counter.

J Calibrated mounting fixture with probe clamp and slots for absorbers.

K Two completely safe radium beta-gamma radioactive sources for measuring detector efficiency, radiation intensity, coincidence losses, geometries.

L Instruction manual clearly outlines demonstrations and simple operation of Classmaster. Contains radiation theory, diagrams, exercises, experiments and test questions.

Nuclear-Chicago Model 1613A Classmaster is available for prompt shipment on receipt of order. Price complete as shown. Guaranteed 1 Year. **Only \$194.50**

For informative brochure listing experiments and demonstrations you can perform with Classmaster or for full information on other Nuclear-Chicago radiation laboratory instruments . . . scalars, monitors, detectors and accessories . . . write:



nuclear - chicago

C O R P O R A T I O N

237 WEST ERIE STREET • CHICAGO 10, ILLINOIS