

27-30. American Soc. of Agronomy, jointly with Crop Soc. of America, Council on Fertilizer Application, and Soil Science Soc. of America, St. Louis, Mo. (ASA, 2702 Monroe St., Madison, Wis.)

27-30. Entomological Soc. of America, Miami, Fla. (R. H. Nelson, 4603 Calvert Rd., College Park, Md.)

29-1. Communication Wires and Cables, symp., Asbury Park, N.J. (H. Kingsley, U.S. Army Research and Development Laboratory, Fort Monmouth, N.J.)

29-1. Western Surgical Assoc., San Francisco, Calif. (W. W. Carroll, 700 N. Michigan Ave., Chicago 11, Ill.)

30. American Geographical Soc., New York, N.Y. (C. W. Bastable, Columbia Univ., New York 27)

30-1. Conference on Graduate Medical Education, Philadelphia, Pa. (P. Nemir, Jr., Dean, Graduate School of Medicine, Univ. of Pennsylvania, Philadelphia)

30-1. Vehicular Communications, Minneapolis, Minn. (J. Kahnke, Minneapolis-Honeywell, Aero Div., 1541 Edgewater Ave., St. Paul 13, Minn.)

30-2. Purest Substances in Science and Technology, intern. symp., Dresden, Germany. (Sekretariat, Chemische Gesellschaft in der Deutschen Demokratischen Republik, Unter den Linden 68/70, Berlin W.8, Germany)

December

1. Symposium on Insulin, New York Diabetes Assoc., New York, N.Y. (New York Diabetes Assoc., 104 E. 40 St., New York 16)

1-2. Linguistic Circle of New York, 7th annual conf., New York, N.Y. (L. Urdang, Random House, Inc., 501 Madison Ave., New York 22)

2. International College of Surgeons, intern. executive council, Chicago, Ill. (H. E. Turner, 1516 Lake Shore Dr., Chicago 11)

2. New York State Registry of Medical Technologists, annual seminar, New York, N.Y. (S. H. Keeling, 1719 Midland Ave., Syracuse, N.Y.)

2-7. American Acad. of Dermatology and Syphilology, annual, Chicago, Ill. (R. R. Kierland, Mayo Clinic, Rochester, Minn.)

3-6. American Inst. of Chemical Engineers, New York, N.Y. (F. J. Van Antwerpen, AIChE, 345 E. 47 St., New York 17)

4-6. Institute of the Aerospace Sciences, Aerospace Support and Operations, natl., Orlando, Fla. (R. J. Kotowski, 318 Virginia Dr., Melbourne, Fla.)

4-8. International Colloquium on Ionic Bombardment, Bellevue, France. (Natl. Scientific Research Center, 15 Quai Anatole France, Paris 7^e, France)

4-9. Mathematics Instruction at Secondary and University Levels, Inter-American conf., Bogota, Colombia. (M. Alonso, Div. of Science Development, Pan American Union, Washington 6)

4-9. World Federation of Neurology, Problem Commission of Tropical Neurology, Buenos Aires, Argentina. (P. Bailey, Natl. Inst. of Neurological Diseases and Blindness, Bethesda, Md.)

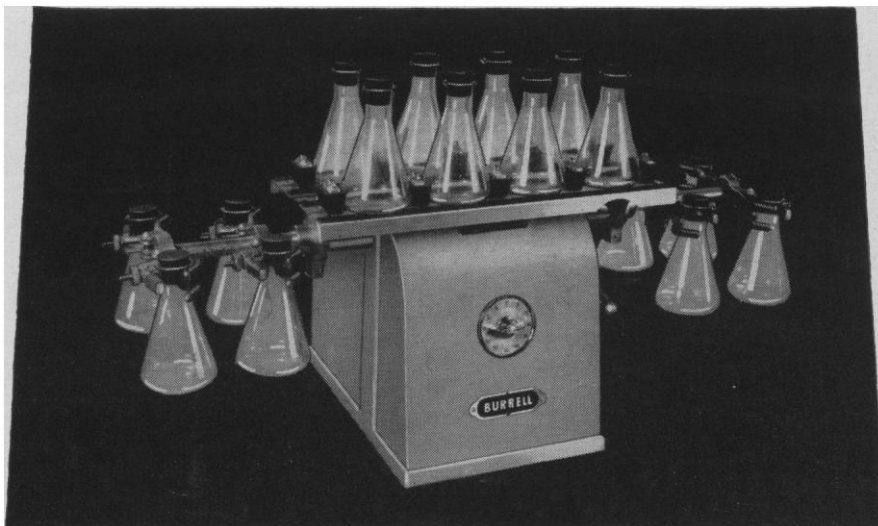
(See issue of 20 October for comprehensive list)

27 OCTOBER 1961

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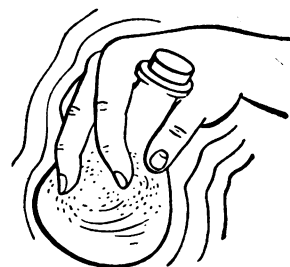
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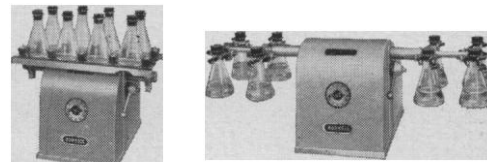


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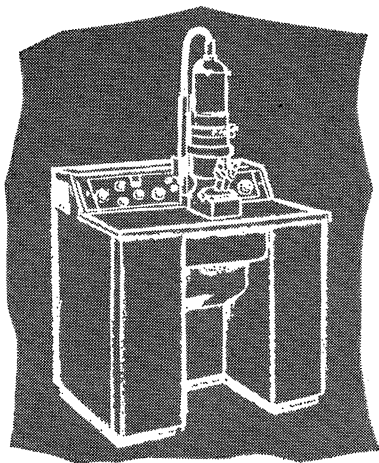
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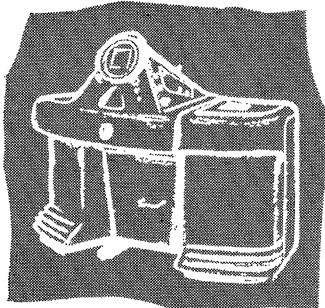
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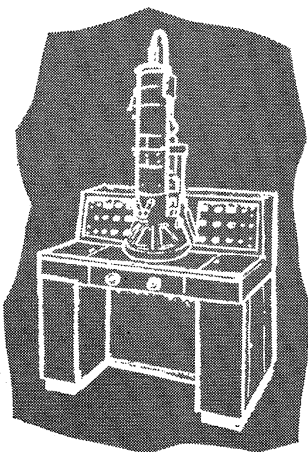


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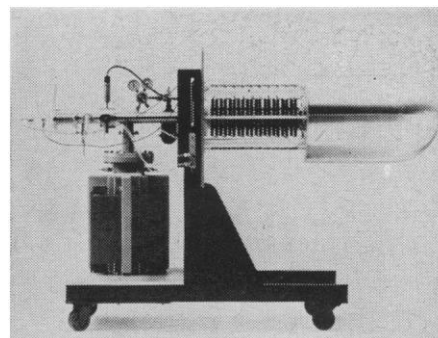
New Products

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to the manufacturer. Include the department number in your inquiry.

Electron spin resonance spectrometer is designed especially for experimental use in the physics laboratories of schools. The instrument consists of a magnet power supply; a magnetic field unit; a unit containing an oscillator, detector, and amplifier; a sample holder; and an oscilloscope display unit. Operating frequency is variable from approximately 35 to 70 Mcy/sec; a calibration chart is supplied. Both the d-c magnetic field strength and the a-c sweep are controlled. The sweep may be varied from 0 to approximately 50 gauss (peak to peak) at 60 cy/sec. The sample holder accepts samples approximately 1 cm long by 4 mm in diameter. Larger samples require special holders. Sensitivity is sufficient to provide a signal suitable for lecture demonstrations. (Alpha Scientific Laboratories, Inc., Dept. Sci415, P.O. Box 333, Berkeley 1, Calif.)

Remote-handling system includes a vehicle with a telescoping mast, a model 150 mechanical arm, and an associated cable-linked control system. Optional equipment includes a remotely controlled hoist winch, dual television cameras, and a space microphone or intercom system. The handler can move through restricted openings and can work in confined areas. Minimum and maximum operational speeds are rated at approximately 8 and 100 ft/min, respectively. The vehicle travels up a 25-deg slope at 58 ft/min and surmounts minor irregularities or obstacles. Vehicle length and width are 30 and 24 in., respectively, and retracted height is 45 in. Vertical reach is 96 in., and horizontal reach is 41.5 in. in all directions. (General Mills, Inc., Dept. Sci441, 419 N. 5 St., Minneapolis 1, Minn.)

Neutron generator systems are available in various models. A standard system consists of a small mobile accelerator, a 150-kv power supply, and a remote-control console. A more sophisticated system offers pulsed operation. A radio-frequency type ion



source with an atomic-molecular ratio of 90 percent is used to deliver currents greater than 1 ma. Controllable yields of 4×10^{10} fast neutrons per second are said to be obtainable. A getter-type pumping assembly provides a vacuum of 10^{-7} mm-Hg. With a suitable moderator, a thermal neutron flux of 5×10^7 neutrons per square centimeter per second may be obtained. Neutrons are generated by the reaction $D^2 + T^3 = He^4 + n^1 + 17.577 \text{ Mev}$. (Nuclear-Chicago Corp., Dept. Sci431, 359 E. Howard Ave., Des Plaines, Ill.)

JOSHUA STERN

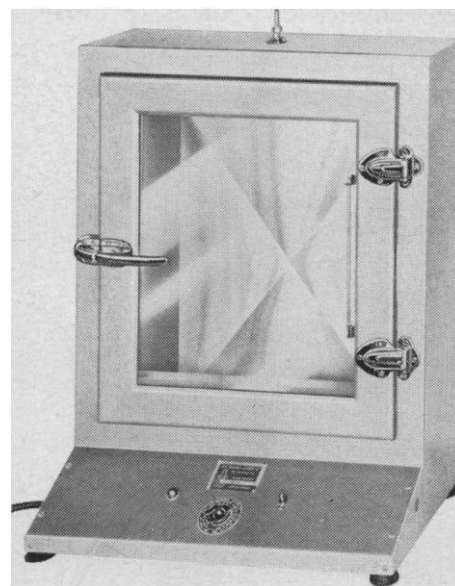
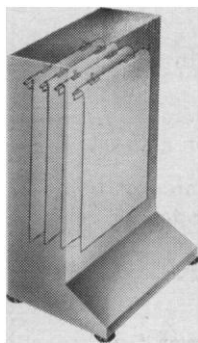
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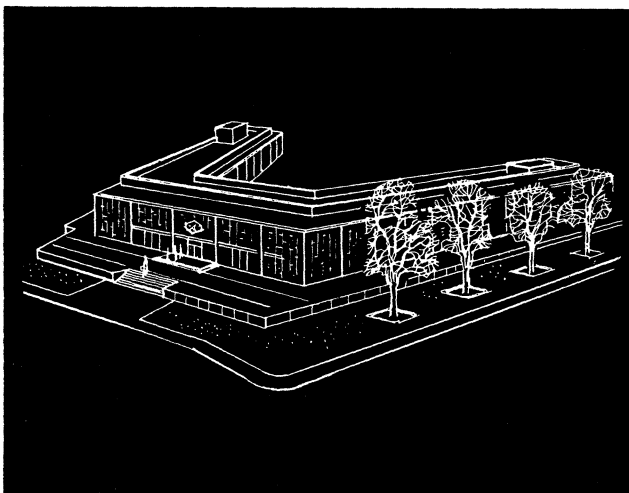
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Dr. R. A. McCracken (Personal discussions can be arranged at your convenience, including Saturdays, in Elkhart, Indiana)

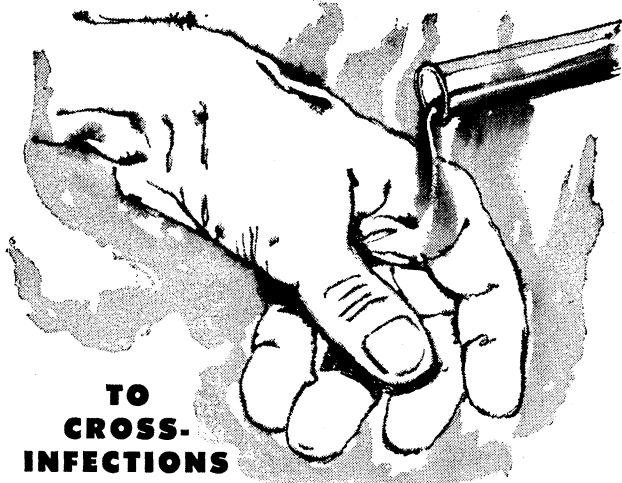
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* In April 1960 issue of *Lab World*.

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Two copies of the application stating research experience, publications, and the names of at least two referees, should be sent to the Secretary, Association of Universities of the British Commonwealth, Marlborough House, Pall Mall, London, S.W.1. (from whom copies of the memorandum giving further details about the post should be obtained) by 31 December 1961. A third copy of the application should be sent (by airmail if necessary) to the Registrar, University of Cape Town, Private Bag, Rondebosch, Cape Town, South Africa, to reach him by the same date.

It is essential that the program of research which the applicant proposes to undertake while at Cape Town should accompany his application.

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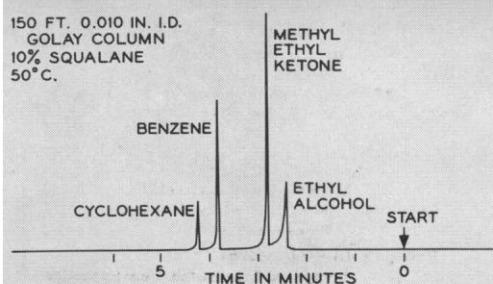
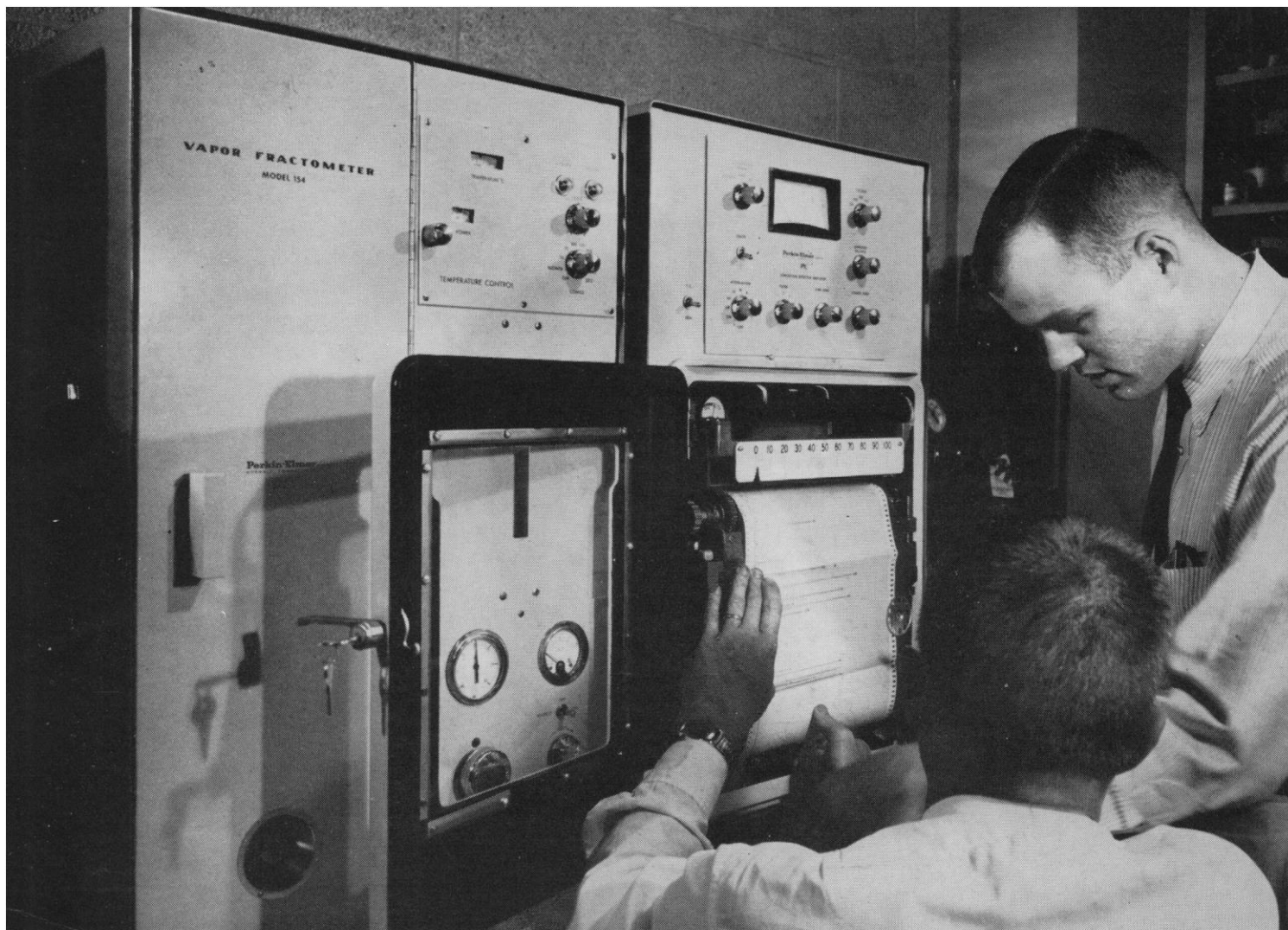
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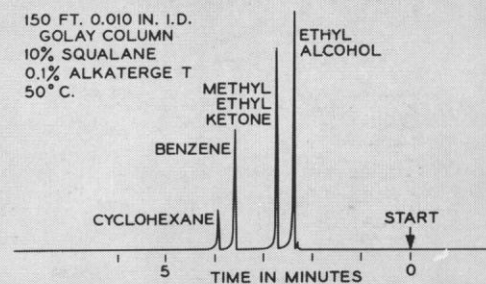
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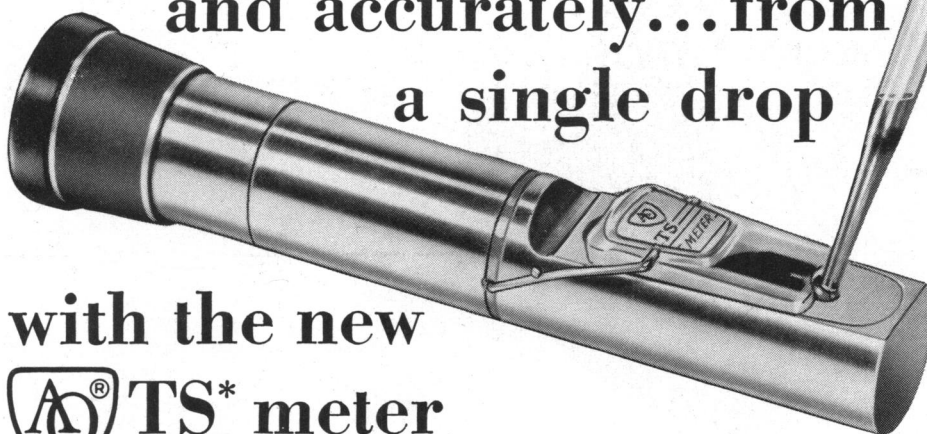
Perkin-Elmer Corporation

NORWALK, CONNECTICUT

Perkin-Elmer is a registered trademark of the Perkin-Elmer Corporation.

1. Patent applied for. 2. Averill, W., 1961 International Gas Chromatography Symposium. I.S.A., Michigan State University, East Lansing, Mich., June 13-16, 1961. 3. U.S. Patent No. 2,920,487.

Serum, Plasma or Urine
determinations...quickly
and accurately...from
a single drop



with the new



TS* meter

(a Goldberg Refractometer)

The new AO TS Meter requires just *one drop* of sample to provide immediate, accurate determinations of total solids, specific gravity, refractive index, protein concentration or water concentration in serum, plasma and urine.

Minute Sample Required: As little as 0.02 ml of sample is sufficient for the most precise determination. Minute sample previously reported "q.n.s." now can be read routinely for example, in pediatric urinalysis, in oliguric patients, and in collection from ureteral catheters or microhematocrit tubes.

Temperature-Compensated for Unsurpassed Accuracy: The AO TS Meter provides automatic temperature compensation for all aqueous solutions. Differences in room, instrument or sample temperatures do not affect readings. Error from these sources is reduced to less than 0.1% over the range of 65° to 95°F. Readings are consistently obtained with a degree of accu-

racy, speed and reproducibility significantly better than those obtained with urinometers, the falling-drop method or with instruments uncompensated for temperature.

Direct Readings: You make an immediate analysis directly from the built-in scale . . . without references to graphs, tables or thermometer readings. Two models are available. Model 10400 provides determinations of total solids in plasma or serum and urine specific gravity; model 10401 gives readings of protein concentration and refractive index.

***Total Solids Meter.** The AO TS Meter and this method of analysis was developed in close cooperation with Dr. A. V. Wolf, Head of the Department of Physiology, University of Illinois, College of Medicine, Chicago, Ill.

Write for complete information!

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INSTRUMENT DIVISION, BUFFALO 15, NEW YORK

Dept. X-4

Gentlemen: Please send Brochure SB10400—with complete information about the new AO TS Meter.

Name

Address

City Zone State

IN CANADA write — American Optical Company Canada Ltd., Box 40, Terminal A, Toronto, Ontario

