

rect attack on the pathogen by some element of the soil fauna or flora, perhaps the major mechanism is of an indirect nature, or through the creation of greater stresses for the pathogen in its competition for moisture, air, food, and space. It also seemed clear that even slight modifications in crop culture could greatly improve the effectiveness of biological control. This in itself struck a note of hope.

Enthusiasm and interest ran high throughout the sessions, a fact which attests to the promise and optimism felt for the future of biological control. In the minds of the organizing committee this alone was evidence of success for one of the prime objectives of the symposium—to stimulate research in what seems now to be a potentially rewarding approach to plant disease control.

The program was supported by grants from the National Institutes of Health, National Science Foundation, and the Agricultural Research Service; the other sponsor was the Agricultural Board of the National Academy of Sciences—National Research Council. The meeting was organized by its Committee on Biological Control of Soil-borne Plant Pathogens whose members include W. C. Snyder (chairman), K. F. Baker, R. R. Baker, F. E. Clark, A. W. Dimock, W. A. Kreutzer, J. D. Menzies, L. I. Miller, and Z. A. Patrick. The Department of Plant Pathology at the University of California in Berkeley served as host for the symposium.

In order to make available the invited papers and discussions, it is planned to publish the proceedings of the symposium.

WILLIAM C. SNYDER

University of California, Berkeley 4

Forthcoming Events

September

9-11. **Weak Interactions**, intern. conf., Brookhaven, N.Y. (G. C. Wick, Brookhaven Natl. Lab., Long Island, N.Y.)

9-11. **Soils**, Laboratory Shear Testing, Ottawa, Ont., Canada. (American Soc. for Testing and Materials, 1916 Race St., Philadelphia 3, Pa.)

9-12. **Production Engineering Research**, intern. conf., Pittsburgh, Pa. (Carnegie Inst. of Technology, Pittsburgh)

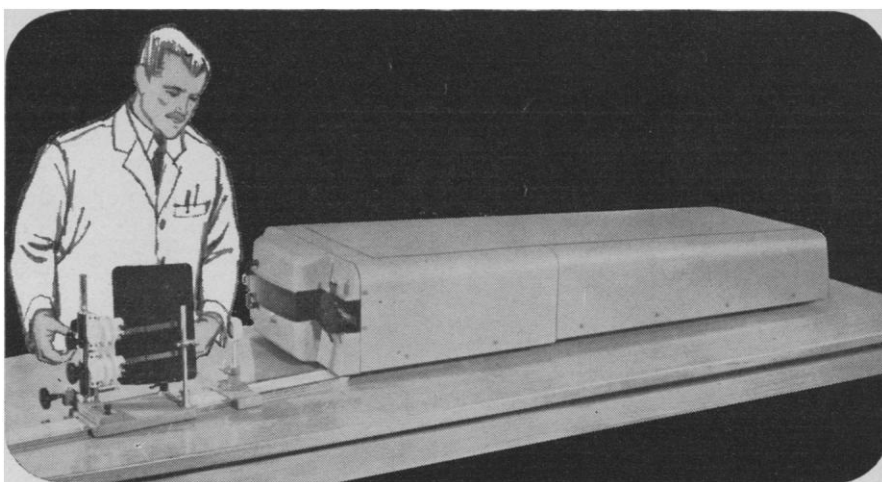
9-12. **Instrument Soc. of America**, conf. and exhibit, Chicago, Ill. (T. A. Abbott, American Oil Co., 2400 New York Ave., Whiting, Ind.)

9-13. **International Union against Cancer**, conf., Amsterdam, Netherlands. (H. G. Kwa, UICC Cancer Conf., c/o Congresdienst Gemeente Amsterdam 4, St. Agnietenstraat, Amsterdam-C)

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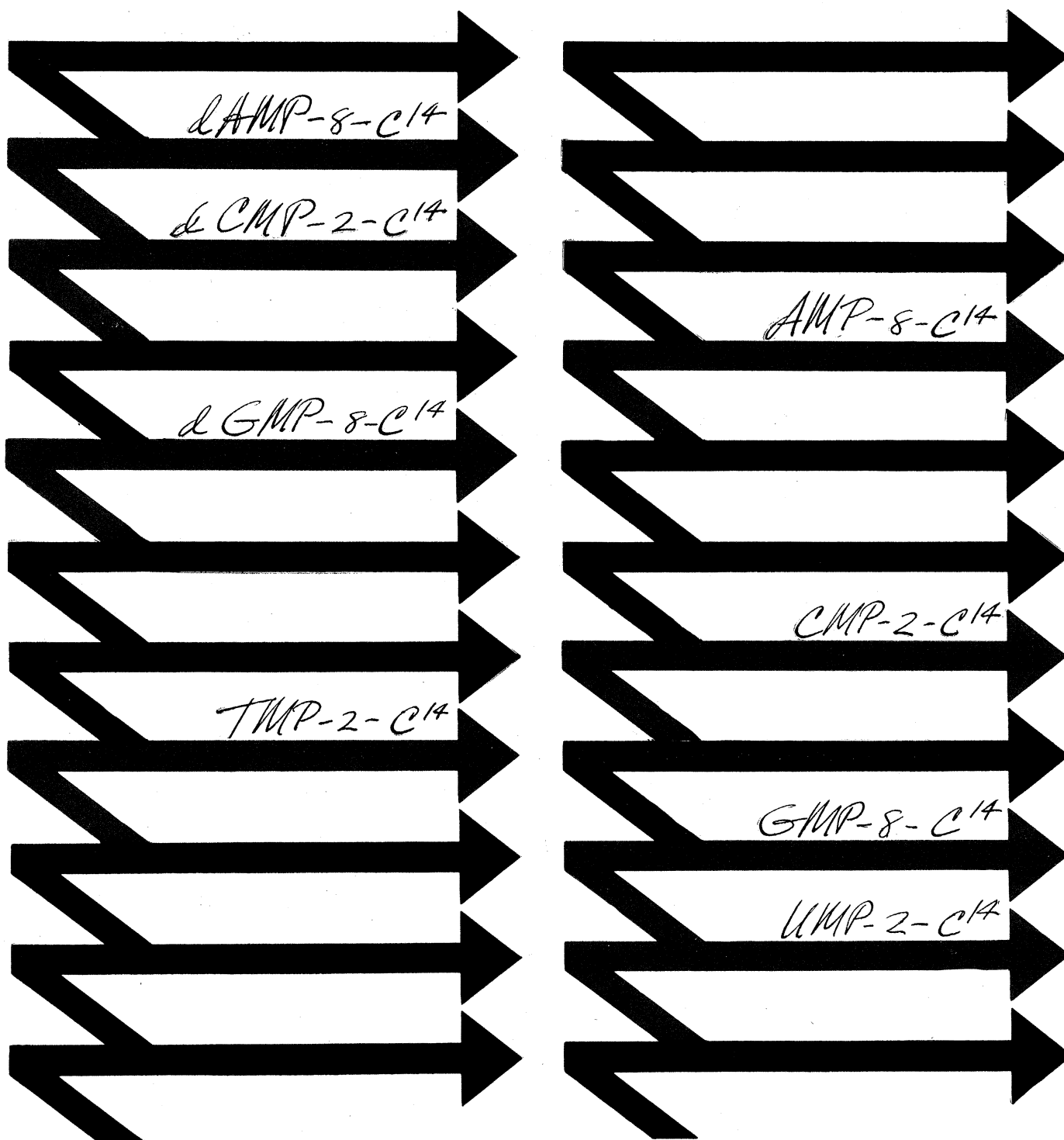
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Magnetometer (type MF-4000) is a multipurpose transistorized instrument powered by four standard flashlight cells. It is designed to be used for a variety of measurements by changing probes. Push-button controls energize the particular measurement range and values are read on a 15.2-cm meter. Probes are available for measuring magnetic field, magnetic gradient, permeability, residual magnetism or coercive force, fields of ferrous bodies at fixed distances, and leakage fields due to flaws, cracks, or defects. Magnetic field and gradient ranges are 1000, 300, 100, 30, 10, and 3 mgauss; permeability ranges are 3.0, 1.0, 0.3, and 0.1. Accuracy is said to be ± 3 percent in all ranges.—J.S. (Forster/Hoover Electronics, Inc., Dept. S921, Saline, Mich.)

Integrator accessory for the manufacturer's G-14 recorder is an attachment that provides simultaneous measure of the area under the strip-chart curve. The combination features fast response, voltage spans down to 1 mv, accuracy to ± 0.5 percent of full scale, and solid-state circuitry. The integrating mechanism operates on the ball-and-disk principle and is capable of counting up to 30,000 per minute and of measuring the area beneath the curve within ± 0.1 percent of full scale. A separate readout pen operating over a 2.54-cm width on the right side of the chart records the integral information. Nominal full-scale pen travel of the main recording pen is 8.9 cm.—J.S. (Varian Associates, Dept. S922, 611 Hansen Way, Palo Alto, Calif.)

Liquid nitrogen handling and storage information is conveniently available in a 9-page bulletin. It is divided into six sections covering general properties, hazards, safety measures, transfer and storage, shipping, and recommended safety instructions. Details are given on chemical composition, general appearance, chemical nature, physical properties, solubility, and stability of liquid nitrogen. In addition, health, fire and explosion hazards, general safety measures, education of personnel, and personnel protection are also covered. Recommendations for liquid nitrogen transfer and storage including equipment specifications, loading and unloading instructions, applicable shipping laws, and specifications for shipping containers are outlined in this free bulletin.—R.L.B. (Cryogenators, Div. of North American Philips Co., Dept. S936, P.O. Box 2200, Ashton, R.I.)

The material in this section is prepared by the following contributing writers:

Robert L. Bowman (R.L.B.), with the assistance of Denis J. Prager (D.J.P.), Laboratory of Technical Development, National Heart Institute, Bethesda 14, Md. (medical electronics and biomedical laboratory equipment).

Joshua Stern (J.S.), Basic Instrumentation Section, National Bureau of Standards, Washington 25, D.C. (physics, computing, electronics, and nuclear equipment).

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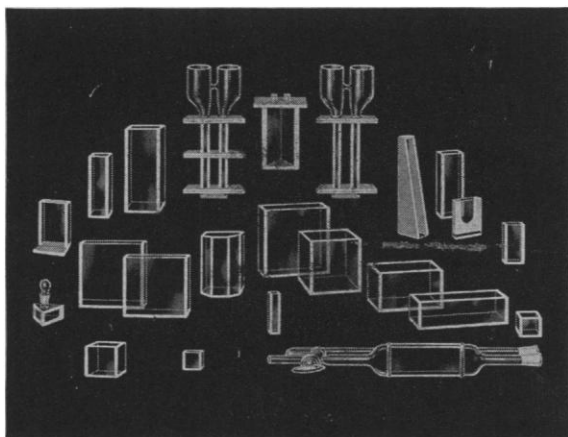
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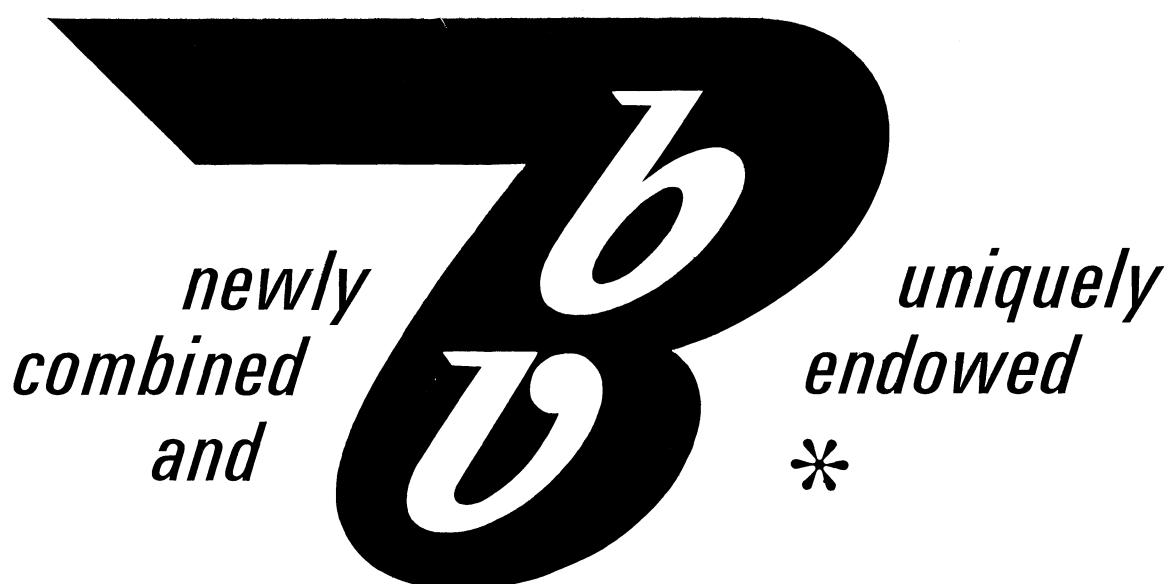
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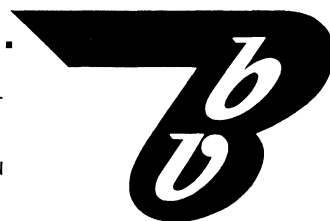
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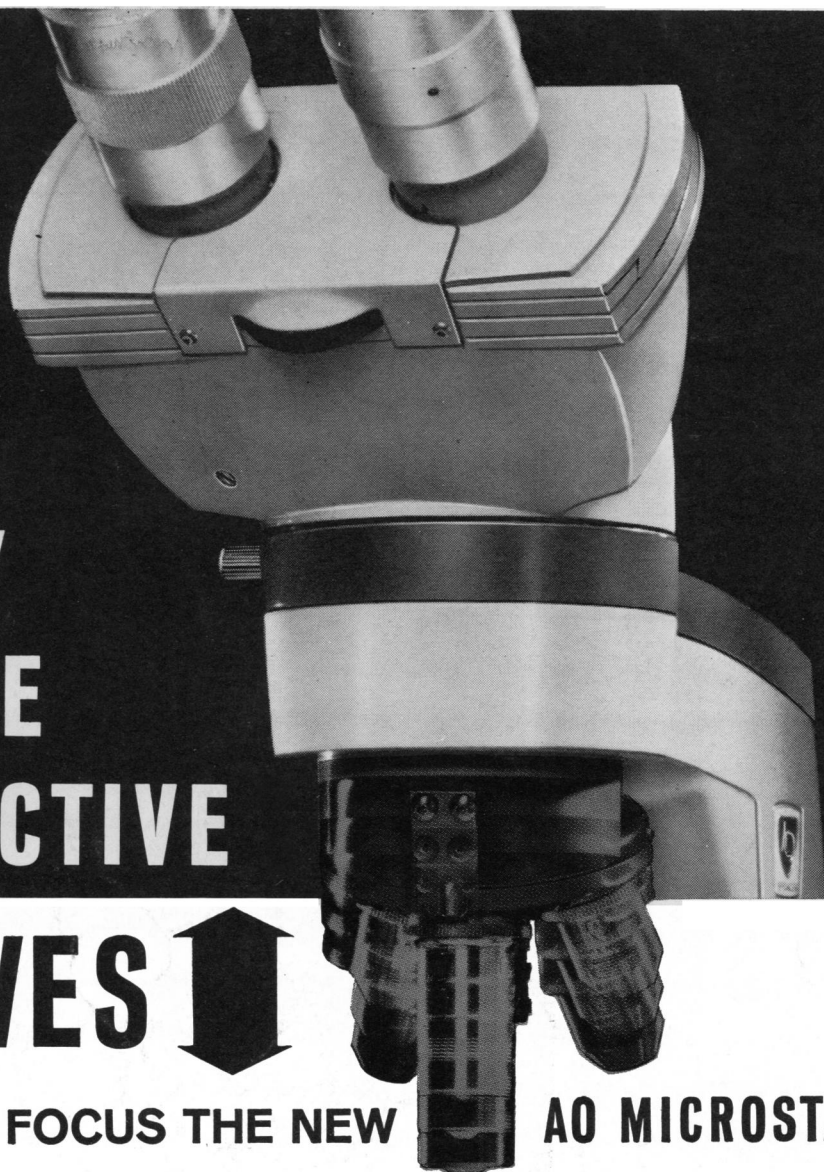
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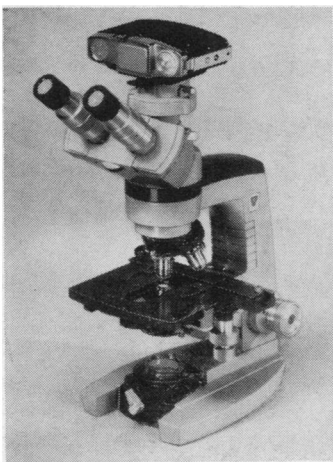
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