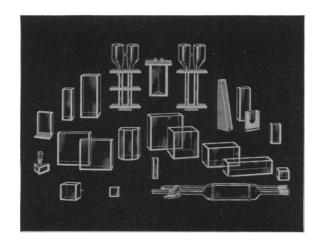
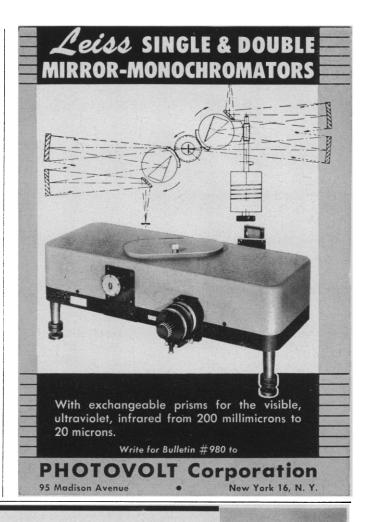
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Edited by Benjamin Pasamanick

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- ATMOSPHERIC PARTICLE MONITOR presents on a strip-chart recorder a record of aerosols present in the range from 0.03 μ to any desired upper limit. Counting rate is 1000 particles per minute with a 1-percent coincidence loss at a standard flow rate of 100 cm³/min. The record is divided into 15 subranges that are recorded in sequence at intervals that can be predetermined in length. The unit is continually selfcalibrated. An alarm system can be set to operate if concentration in any of the subranges exceeds a predetermined value. (Royco Instruments, Inc., Dept. Sci569, 365 San Antonio Rd., Mountain View, Calif.)
- CURRENT-SURGE GENERATOR furnishes single half-wave sinusoidal surge currents adjustable between 5 and 75 amp at a maximum repetition rate of four per minute. Provision is made to monitor the output with an oscilloscope through a 50-mv shunt. A synchronization signal is provided. (Wallson Associates, Dept. Sci570, 912 Westfield Ave., Elizabeth, N.J.)
- TEMPERATURE SENSOR is designed for in-wall locations in steel structures having a section thickness ¼ in. or greater. Chromel-Alumel is the junction material offered as standard. Body lengths are available in ⅓ in. increments from ¼ to 3½ in. Thermocouple junction location is determined to ±0.002 in. or less in standard increments of ⅙ in. from 0.001 in. (from heated surface) to 0.005 in. (from unheated surface). (American Standard, Dept. Sci571, 369 Whisman Rd., Mountain View, Calif.)
- RESOLVER TEST STAND is a shaft-rotation-positioning device consisting of an optical coincidence reading system said to have ±2-sec accuracy, a rack and gear for positioning, and an adapter plate and coupling. Angular position is read directly to the nearest second of arc. (W. and L. E. Gurley, Dept. Sci-573, Troy, N.Y.)
- CATHODE RAY TUBE is designed for low deflection voltage, less than 15 v/in., to permit design of compact equipment and transistor circuitry. Light output is said to be high in relation to the accelerating voltage used (500 volts). Post acceleration is used to minimize distortion. (Allen B. Du-Mont Laboratories, Inc., Dept. Sci574, Clifton, N.J.)

- REFERENCE-VOLTAGE SOURCE provides a-c voltage output from 1 to 501 volts r.m.s. adjustable in 0.1-volt steps and by multiturn potentiometer within steps. Output is 5 amp or 25 watts, whichever is less. Frequencies selectable are 60, 400, and 1000 cy/sec. Accuracy is said to be ±0.1 percent or ±5 mv, frequency stability 1.0 percent, and harmonic distortion less than 0.3 percent. Output impedance with a constant resistive load is approximately 0.01 ohm. (Cohu Electronics Inc., Dept. Sci572, 5725 Kearny Villa Rd., San Diego 12, Calif.)
- PHOTOMETER measures the difference in intensity of two light sources or measures and records each intensity independently. Sensitivity of each scale is adjustable over a ten to one range. Accuracy is said to be ± 0.5 percent in each channel and stability ± 0.1 percent per channel per day. Five ranges from 0.001 to 10 μ a full scale are provided. Commercially available phototubes or multiplier phototubes may be used. (Eldorado Electronics, Dept. Sci575, 2821 Tenth St., Berkeley 10, Calif.)
- OSCILLOSCOPE CAMERA, for 5-in. oscilloscope, is of modular design for adaptability to a wide range of object-to-image ratios. Accessories include a binocular viewing hood; adaptor to record up to ten traces on a single frame; 35-mm pulse camera; 35-mm continuous motion camera; data chamber with watch, platen, and counter; data card; external focusing control; and electric shutter actuator. (Beattie-Coleman Inc., Dept. Sci566, 1090 N. Olive St., Anaheim, Calif.)
- DISPLACEMENT TRANSDUCERS of differential-transformer types are said to have nonlinearity of 0.3 to 0.4 percent over ¾ of full-range length. Six models range in length from 1½ to 17 in. with diameter 0.5 in. Operating temperature range is −100° to +350°F. Operating frequency is 400 cy/sec. Repeatability is said to be ±0.01 percent. (Pacific ElectroKinetics, Dept. Sci577, 329 S. Vermont Ave., Glendura, Calif.)
- TIMER uses a filtered power supply feeding an RC network through a transistor to operate a relay at the end of the timing cycle. No warmup time is required. The instrument is rated at $3 \times 10^{\circ}$ operations, with accuracy said to be ±1 percent. Contacts are rated 15 amp at 115 volts a-c. Direct-current models are available. Full scale ranges are available from 1 to 120 sec. (Automatic Timing and Controls Inc., Dept. Sci581, King of Prussia, Pa.)

Joshua Stern

National Bureau of Standards, Washington, D.C.

1688 SCIENCE, VOL. 131



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Zoologist, aquatic invertebrate, Ph.D.; 6 years of research experience, taxonomy, ecology, A.E.C. accredited. Desires teaching and research. Box 128, SCIENCE.

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Anatomy Department, Dalhousie University, Halifax, Nova Scotia. Applications are invited for two positions at the rank of Assistant Professor in the Department of Anatomy. Experience in the teaching of gross anatomy is essential and a willingness to undertake some teaching in neuroanatomy, histology, or embryology desirable. The successful candidates will be expected to participate in the active research program of the department, for which good facilities are available. Applicants with a medical degree will be preferred although those with an honors degree in medical science or biology will receive special consideration. The salary for a medical graduate with minimum qualifications will be \$6500. The salary will depend upon qualifications and experience. Applications should be made to Professor R. L. deC. H. Saunders at the above address.

3/4; 4/1; 5/6; 6/3

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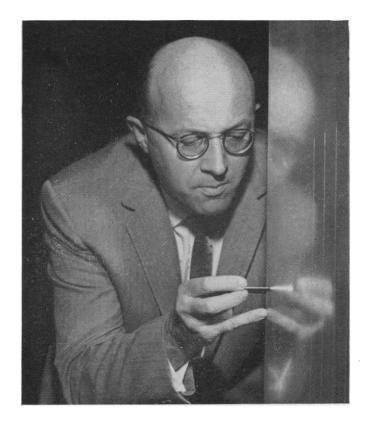
BACTERIOLOGICAL AND GROSS TISSUE STUDY TECHNIQUES USED IN OUR QUALITY CONTROL

HUNTINGDON FARMS, INC. 2548 NORTH 27th ST. PHILA. 32, PA.

How Boundary Layer Control Reduces Friction Drag on Aircraft in Flight, Can Increase Range 50% to 100%

by Dr. Werner Pfenninger

Dr. Pfenninger, internationally renowned for his work in laminar flow and low drag coefficients at the Federal Institute of Technology in Zurich, joined Northrop in 1949. Today he heads the scientific and engineering team working on Boundary Layer Control Research at Norair Division, Northrop Corporation.



The boundary layer is a very thin stratum of air that surrounds an aircraft in flight. Lying directly on the aircraft, it is formed by air that is slowed by the passage of the aircraft surface and flows more slowly than the free stream velocity of the air around it. Turbulence results. This increases air friction—waste friction drag (not to be confused with induced drag associated with lift).

Norair Low Drag Boundary Layer Control prevents this turbulence by smoothing the flow of air. BLC draws part of the turbulent air through slots in the aircraft skin with a suction compressor and exhausts it in the direction of thrust through the aft fuselage or the nacelle tailpipes. On wings and empennage this reduction can increase the aircraft's range or endurance 50 per cent. If BLC is applied to most of the airplane, this increase can go as high as 100 per cent.

BLC's reduction of friction drag increases endurance missions, flight efficiency, and amount of pay load. It reduces fuel consumption to the point where aircraft can remain on station for long periods of time. It reduces operating costs.

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For military applications, BLC means advances in aircraft performance as an air-to-surface missile carrier on air defense missions, airborne early warning systems, anti-submarine warfare, tactical air support, intercontinental communications link. On logistic missions, BLC allows nonstop flights without refueling to decrease dependence on overseas bases. On commercial aircraft BLC's increased range, payload and cost advantage mean a remarkably increased ability to carry air freight. For flights of 2000 miles or more, direct tonmile cost can be reduced by 10 to 50 per cent. On passenger flights, long distance nonstop flights would be possible to any point in the world. For nuclear powered aircraft of the future, BLC means smaller power plants with less heavy and costly radiation shielding that makes a lighter airplane

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Current papers by Dr. Werner Pfenninger include:

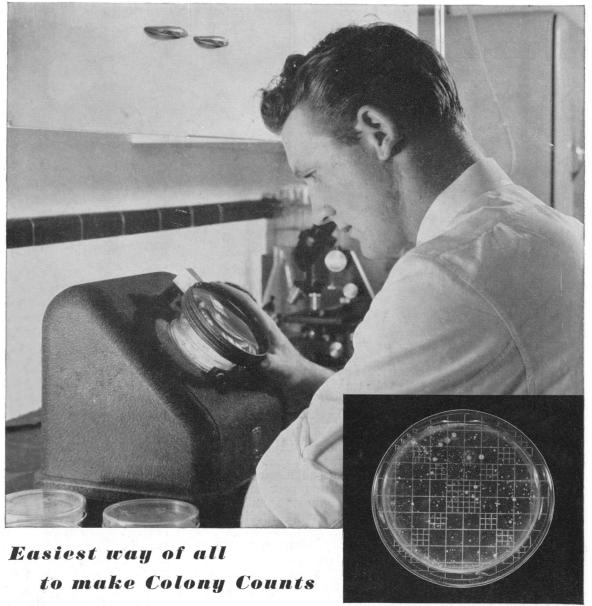
Design Considerations of Large Subsonic Long-Range Transport Airplanes with Low Drag Boundary Layer Suction.

Design Considerations of Propulsion Systems for Low Drag Boundary Layer Control Airplanes Cruising at High Subsonic Speeds.

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