LETTERS Jobs for Mathematicians: D. W. Lick; Religion and Scholarship: W. Hirsch; B. Merker; D. L. Davis; F. N. Greville; K. R. Hardy; History of “Ecology”: R. Goodland

EDITORIAL Academy Forum: Science and Its Critics: W. Gaylin and S. Gorovitz

ARTICLES Terrestrial Timekeeping and General Relativity—A Discovery: W. H. Cannon and O. G. Jensen

On the Role of Themata in Scientific Thought: G. Holton

Thematic Analysis in Science: Notes on Holton’s Concept: R. K. Merton

NEWS AND COMMENT Congress: House Votes Veto Power on All NSF Research Grants

Nuclear Industry Girds for Battle

Arms Controllers Are Pessimistic on Eve of Non-Proliferation Treaty Review

Health Manpower Bill: Catch is Distribution of Doctors

RESEARCH NEWS Diabetes: Epidemiology Suggests a Viral Connection

BOOK REVIEWS The Physiological Basis of Starling’s Law of the Heart, reviewed by C. P. Bianchi; Fertilization in Higher Plants, W. S. Hillman; The Biology of Nitrogen Fixation, L. E. Mortenson; Chemical and Biochemical Applications of Lasers, S. R. Leone; Organophosphorus Pesticides, W. C. Dauterman; The Chemistry of Organolithium Compounds, D. Seyferth; Nuclear Magnetic Resonance Spectroscopy of Nuclei Other Than Protons, O. A. Gansow; Superfluid Hydrodynamics, P. H. Roberts; Books Received
Introducing the expanded 3.5Å Zeiss EM-10 system.

We call it the Logical Electron Microscope because it was designed with the researcher and his needs in mind. Forty years of electron microscope experience went into its planning. The result is an instrument that, in the 3.5Å, 500,000X range, is the easiest-to-operate, most versatile electron microscope ever made.

The only truly automatic camera system.

You can select any one of three cameras (3½" x 4", 70mm rollfilm, and 35mm) instantaneously.

Pushing just one button
1. switches off the white panel light,
2. raises the fluorescent screen,
3. imprints the negative with a 5-digit consecutive number, the magnification, the accelerating voltage, the year, and an operator key letter,
4. sets the automatic exposure according to selected-area electron-density measurement in screen center,
5. takes a perfectly exposed electron micrograph, and
6. advances the negative.

You can take pictures all day, every day with unequalled efficiency. The large built-in dessicator holds 500 pre-loaded cassettes, so you always have an ample supply at hand. And since all information you need is recorded automatically on the negative, you don't even have to pause for record-keeping.

Designed for flexibility.

The most valuable accessories, such as the uniquely easy-to-use High Resolution Goniometer and any X-Ray analyzer of your choice, can be added without exchanging specimen stages or lenses. Without re-alignment. Without restricting the microscope in any way for other uses.

The High-Resolution Goniometer, for example, can be permanently attached to the column for convenient motorized sample manipulation without affecting the focal length, magnification, or resolution. It takes just a few seconds to change from the Goniometer specimen holder to any other, standard or special. You can see why it's the Logical Electron Microscope. The logical thing for you to do now is to get complete details.

Nationwide Service.

Synapse between two glomus cells of the rat carotid body at various angles of tilt. Without tilt the pre- and postsynaptic membranes are indistinct, because the plane of the section is tangential to the plane of the synapse. At -40°, the synapse appears as if cut in cross-section. At + 40° a view of the synapse is obtained nearly orthogonal to that of -40° tilt. Taken with the EM-10 by Dr. Donald McDonald, Cardiovascular Research Institute, University of California, San Francisco.

(Since publication printing cannot show the incredible detail, send for full size glossies.)


Circle No. 122 on Readers' Service Card