

ondary development of single or multiple regenerating structures appear to be related to breaks in the polarized communications which normally result in morphogenetic equilibrium. The nature of the polarized control is still very poorly known, but Rose presents evidence linking this control, at least in part, with the bioelectric fields which are normally present in living organisms.

In several places in the book the "totipotent reserve cell" concept in regeneration is examined and dismissed as an unnecessary genetic crutch for regeneration theory since essentially all cells are assumed to possess a complete genetic blueprint. The author cites numerous examples of cell transformations which, in his view, obviate the need for postulating reserve cells, but he supports a greater extent of cell transformation (for example epidermal dedifferentiation in limb regeneration) than some people in the field are willing to accept.

Several times Rose mentions that at the forefront of knowledge there are always differences of opinions. The test of a good hypothesis is not only that it ultimately proves to be correct but that it presents the problem in such a manner that means toward its solution are clearly evident. In this respect, I think Rose has succeeded in presenting his ideas admirably. They should prove to be a stimulus for a significant amount of fundamental experimental work in the years to come.

BRUCE M. CARLSON

Department of Anatomy,
University of Michigan, Ann Arbor

Studying Development

Methods in Mammalian Embryology. JOSEPH C. DANIEL, JR., Ed. Freeman, San Francisco, 1971. xviii, 532 pp., illus. \$22.50.

No new data are presented; there is no effort to summarize, point to new frontiers, or define a commonality of research goals. And yet, this book could not be more engrossing for the scientist with embryological tendencies. We've all marveled at R. J. Blandau's intimate and beautiful films of ovulation and egg transport in the mammal. The report of how this photography is achieved is equally intriguing. The evolution of techniques by B. Mintz and colleagues permitting the combination of embryos into mosaic mice is nothing short of inspirational, as are

several other success stories contained in these pages. Of course, all of this methodology has been available previously in the literature and from the investigators themselves, but usually in fragmented, abbreviated form. Further, many clear photographs and diagrams are included which will greatly assist anyone adopting these methods.

Technically, the growing of babies in test tubes of *Brave New World* is both farther away than sensationalists would have us believe and closer than we are prepared for as scientists and human beings. Fertilization in vitro and the transplantation of eggs and even blastocysts between uteri followed by essentially normal maturation are all feasible. The progress of D. A. T. New and associates in the culture of embryos in vitro comprises an exceedingly effective chapter in the book. It should be noted, however, that the excellent chapters on these subjects all deal with rodent or rabbit material. It is unfortunate that no author chose to review progress (and failures) in these areas for human or even subhuman primate eggs and embryos. Only 3 of 34 chapters deal primarily with animals other than rodents and the rabbit. N. L. First covers thoroughly the collecting and storing of sperm from many mammals, including the prudent admonition to attempt direct collection of sperm only from "badly crippled bulls." P. J. Dziuk describes methods for obtaining eggs and embryos from sheep and pigs. The only attention given to primates is a lucid chronicle by E. M. Ramsey of the struggle to understand the circulation of the placenta. But for rodents and the rabbit, the coverage of experimental techniques is exceedingly thorough, running the gamut from ovulation to organ culture.

Inevitably, there are some repetitions, omissions, and inclusions which are not entirely appropriate. Methods for inducing superovulation in the mouse are clearly described in the chapter by A. H. Gates and then given again (with slightly different recommendations for hormone dosages) by several other authors. No mention is made of the exact means for eliciting superovulation in the rat, whose eggs in abundance are a prelude for several other techniques contained in the volume. Occasionally, methods creep in that are in common use. Cases in point are the descriptions for autoradiography, routine histochemistry, and liquid scintillation counting, which are covered more thoroughly in other cur-

rent books. Fortunately, these are only minor flaws in a nicely rounded assemblage of major techniques in current use for studying mammalian development.

As happens with multiple authorship, the descriptions of techniques vary greatly in detail and extent of presupposed background on the part of the reader. R. E. Rumery and colleagues in discussing the culture of embryonic ovaries and oviducts leave nothing to chance, even describing how to grasp a mouse in order to search for a vaginal plug. Other chapters are more remote, summarizing the kinds of techniques available for a particular type of study and providing useful references.

The trend toward symposia and many-authored books has resulted in a plethora of expensive volumes emerging in a given field every year. Unfortunately, each book may contain only a chapter or two of prime interest. For most of us, dealing with a bewildering array of laboratory problems and needing to provide consultant services to students and colleagues as a sort of embryologist-in-residence, this compilation will be a useful sourcebook for years to come.

W. ANN REYNOLDS

Department of Anatomy, University of
Illinois College of Medicine, Chicago

Books Received

Aboriginal Man and Environments on the Plateau of Northwest America. Armand H. Strydom and Rachel A. Smith, Eds. The Students' Press, University of Calgary, Calgary, Alberta, 1971. 262 pp., illus. Paper, \$4.

Acoustic Surface Wave and Acousto-Optic Devices. Thomas Kallard, Ed. Optosonic, New York, 1971. viii, 222 pp., illus. Paper, \$15.

Advances in Cancer Research. Vol. 14. George Klein, Sidney Weinhouse, and Alexander Haddow, Eds. Academic Press, New York, 1971. xiv, 418 pp., illus. \$22.50.

Advances in Comparative Physiology and Biochemistry. Vol. 4. O. Lowenstein, Ed. Academic Press, New York, 1971. xiv, 410 pp., illus. \$22.

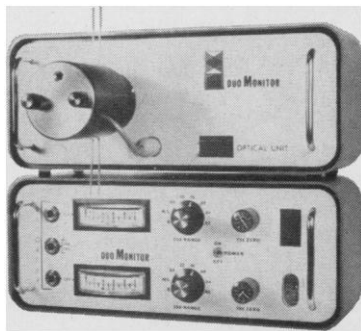
Advances in Cryogenic Engineering. Vol. 16. A conference, Boulder, Colo., June 1970. K. D. Timmerhaus, Ed. Plenum, New York, 1971. xii, 510 pp., illus. \$30.

Advances in Human Genetics. Vol. 2. Harry Harris and Kurt Hirschhorn, Eds. Plenum, New York, 1971. xiv, 318 pp., illus. \$25.

Aircraft Wake Turbulence and Its Detection. A symposium, Seattle, Wash., September 1970. John H. Olsen, Arnold Goldberg, and Milton Rogers, Eds. Plenum
(Continued on page 440)

Meet Our New Baby!

... the DUO-MONITOR simultaneously measures UV absorbance at 254 and 280 nm.



CHECK THESE FEATURES:

- Linear Read-out in absorbance
- High sensitivity 0.0002A
- Double beam stability
- Micro cell volume

Only Laboratory Data Control offers a complete family of uvMonitors for liquid chromatography. Models 1205 and 1280 for 254 and 280 nm respectively — Model 1222 for both 254 and 280 nm simultaneously. No matter how difficult your column monitoring problem, LDC has a detector to suit your needs.



For additional information on UV, RI, fluorescence and conductivity monitors for chromatography write or call today. Our engineers welcome the opportunity to work with you on special applications.

LABORATORY DATA CONTROL

P.O. Box 10235, Interstate Industrial Park, Riviera Beach, Fla. 33404 (305) 844-5241

Circle No. 73 on Readers' Service Card

Social Control and Social Change

John Paul Scott
and
Sarah E. Scott
editors

Man's treatment of his fellow man is the main concern of this important work. The contributors discuss how social change can be effected without resort to destructive force, as they deal with the biological basis of social behavior, masculine/feminine roles, play and game controls, political alienation and the American radical right, population controls, and social control in a mass society. That word "relevant" can truly be applied to this study from the Center for Research on Social Behavior at Bowling Green State University. \$7.95



THE UNIVERSITY OF
CHICAGO
PRESS · CHICAGO 60637

Circle No. 110 on Readers' Service Card

"The Estuary—

Septic Tank of the Megalopolis"

This is but one of 71 scientific papers making up the comprehensive volume

ESTUARIES

published by AAAS in 1967 and reprinted in 1968. Based on the 1964 Conference on Estuaries, Jekyll Island, Georgia, the volume treats basic considerations, physical factors, geomorphology, sediments and sedimentation, microbiota, nutrients and biological production, ecology and populations, physiology and evolution, fisheries, human influences; a summary is included. 776 pages. 2036 literature citations, 525 illustrations, 85 tables, over 14,000 index entries.

Cash orders by AAAS members, \$24; regular price, \$27.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

1515 Massachusetts Ave., NW
Washington, D.C. 20005

BOOKS RECEIVED

(Continued from page 399)

New York, 1971. xiv, 602 pp., illus. \$29.50.

Al-Bitruji: On the Principles of Astronomy. An edition of the Arabic and Hebrew versions with translation, analysis, and an Arabic-Hebrew-English glossary. Bernard R. Goldstein. Yale University Press, New Haven, 1971. Two volumes, xxiv, 610 pp., illus. \$35. Yale Studies in the History of Science and Medicine, 7.

The Alkaloids. Vol. 1. A Review of the Literature Published between January 1969 and June 1970. J. E. Saxton with 14 others. Chemical Society, London, 1971. xiv, 506 pp., illus. £ 11. A Specialist Periodical Report.

Annual Report of the Director of the Pan American Sanitary Bureau Regional Office of the World Health Organization, 1970. Pan American Health Organization, Washington, D.C., 1971. xxiv, 318 pp., illus. Paper. Official Document No. 109.

Annual Reports in Organic Synthesis—1970. John McMurry and R. Bryan Miller, Eds. Academic Press, New York, 1971. xvi, 340 pp., illus. Paper, \$7.50.

The Antecedents of Man. An Introduction to the Evolution of the Primates. W. E. Le Gros Clark. Quadrangle, Chicago, ed. 3, 1971. xii, 396 pp., illus. \$8.95.

Application of Green's Functions in Science and Engineering. Michael D. Greenberg. Prentice-Hall, Englewood Cliffs, N.J., 1971. xiv, 142 pp., illus. \$6.95.

As We Live and Breathe. The Challenge of Our Environment. National Geographic Society, Washington, D.C., 1971. 240 pp., illus. \$4.65.

Astronautics and Aeronautics, 1969. Chronology on Science, Technology, and Policy. Science and Technology Division, Library of Congress. National Aeronautics and Space Administration, Washington, D.C., 1970 (available from the Government Printing Office, Washington, D.C.). viii, 536 pp., illus. Paper, \$2.25. NASA SP-4014.

Astronomy and Astrophysics Abstracts. Vol. 4. Literature 1970, Part 2. S. Böhme, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, and G. Zech, Eds. Published for Astronomisches Rechen-Institut by Springer-Verlag, New York, 1971. x, 562 pp.

The Autonomic Nervous System. For Students of Physiology and of Pharmacology. J. Harold Burn. Blackwell, Oxford, ed. 4, 1971 (U.S. distributor, Davis, Philadelphia). viii, 166 pp., illus. \$5.50.

Bicentenary of the James Watt Patent. For a Separate Condenser for the Steam Engine. A symposium, Glasgow, Scotland, September 1969. Robert Donaldson, Ed. Published for the James Watt Bicentenary Committee by the University of Glasgow, Glasgow, 1971. 224 pp., illus. £2.

Bonds between Atoms. Alan Holden. Oxford University Press, New York, 1971. xii, 108 pp., illus. Paper, \$2.95.

Carbonate Cements. A conference, Bermuda, September 1969. Owen P. Bricker, Ed. Johns Hopkins Press, Baltimore, 1971. xx, 376 pp., illus. \$15. Johns Hopkins University Studies in Geology, No. 19.

Cell Interactions and Receptor Antibodies in Immune Responses. A symposium, Helsinki, Finland, June 1970. O.

SCIENCE, VOL. 174

Mäkelä, Anne Cross, and T. U. Kosunen, Eds. Academic Press, New York, 1971. xx, 472 pp., illus. \$21.

Cellular Interactions in the Immune Response. A convocation, Buffalo, N.Y. June 1970. S. Cohen, G. Cudkovicz, and R. T. McCluskey, Eds. Karger, Basel, 1971 (U.S. distributor, Phiebig, White Plains, N.Y.). viii, 310 pp., illus. \$26.05.

Cognitive Development and Epistemology. A conference, Binghamton, N.Y., September 1969. Theodore Mischel, Ed. Academic Press, New York, 1971. xvi, 424 pp. \$16.40.

The Coming Revolution in Medicine. David D. Rutstein. M.I.T. Press, Cambridge, Mass., 1971. xii, 180 pp., illus. Paper, \$1.95. Reprint of the 1967 edition.

The Common Base of Social Work. Harriett M. Bartlett with the assistance of Beatrice N. Saunders. National Association of Social Workers, New York, 1970. 224 pp., illus. Paper, \$4.

Computers and Crisis. How Computers Are Shaping Our Future. A conference, New York, 1970. R. W. Berner, Ed. Association for Computing Machinery, New York, 1971. x, 413 pp. Paper, \$7.50; cloth, \$15.

Current Topics in Clinical and Community Psychology. Vol. 3. Charles D. Spielberger, Ed. Academic Press, New York, 1971. xii, 220 pp., illus. \$12.50.

Decision-Making on the Efficacy and Safety of Drugs. A conference, Elkridge, Md., May 1970. Joseph D. Cooper, Ed. Interdisciplinary Communication Associates, Washington, D.C., 1971. xviii, 194 pp., illus. Paper, \$5.50. Philosophy and Technology of Drug Assessment, vol. 1.

Defined Immunofluorescent Staining. A conference, Stockholm, May 1970. Ernst H. Beutner, Ed. New York Academy of Sciences, New York, 1971. 530 pp., illus. Paper, \$34. *Annals of the New York Academy of Sciences*, vol. 177.

The Domesday Geography of Midland England. H. C. Darby and I. B. Terrett, Eds. Cambridge University Press, New York, ed. 2, 1971. xviii, 490 pp., illus. \$32.50.

East African Mammals. An Atlas of Evolution in Africa. Vol. 1. Jonathan Kingdon. Academic Press, New York, 1971. x, 446 pp., illus. \$35.

Ecological Isolation in Birds. David Lack. Main illustrations by Robert Gill-mov. Harvard University Press, Cambridge, Mass., 1971. xii, 404 pp. \$12.

Ecology of Fresh Water. Alison Leadley Brown. Harvard University Press, Cambridge, Mass., 1971. xii, 130 pp., illus. \$4.

The Economics of Educational Costing. Inter-Country and Inter-Regional Comparisons. Part 3B, Conclusions, Bibliography, and Index. Manuela Ferreira Leite, Patrick Lynch, Keith Norris, John Sheehan, and John Vaizey. Centro de Economica e Finanças, Lisbon, 1970. 58 pp. Paper.

Effects of High-Power Laser Radiation. John F. Ready. Academic Press, New York, 1971. xiv, 443 pp., illus. \$17.50.

Existential Humanistic Psychology. Thomas C. Greening, Ed. Brooks/Cole, Belmont, Calif., 1971. viii, 200 pp. Paper, \$6.

The Face of Emotion. Carroll E. Izard.

Appleton-Century-Crofts (Meredith), New York, 1971. xii, 468 pp., illus. \$14.95. Century Psychology Series.

Frontiers of Quantitative Economics. A meeting, New York, 1969. Michael D. Intriligator, Ed. North-Holland, Amsterdam, 1971. xii, 472 pp., illus. \$26.25. Contributions to Economic Analysis, vol. 71.

Genetics Lectures. Vol. 2. Ralph Bogart, Ed. Published for Oregon State University Genetics Institute by Oregon State University Press, Corvallis, 1971. 126 pp., illus. Paper, \$4.

Group Selection. George C. Williams, Ed. Aldin-Atherton, Chicago, 1971. xii, 210 pp., illus. Cloth, \$6.95; paper, \$2.95. An Atherton Controversy.

Grundriss der Vogelzugkunde. Ernst Schüz with the collaboration of Peter Berthold, Eberhard Gwinner, and Hans Oelke. Parey, Berlin, ed. 2, 1971. x, 392 pp., illus. DM 88.

Handbook of Fluorescence Spectra of Aromatic Molecules. Isadore B. Berlman. Academic Press, New York, ed. 2, 1971. xiv, 474 pp., illus. \$19.

Homotopy Theory. George W. Whitehead. Compiled by Robert J. Aumann. M.I.T. Press, Cambridge, Mass., 1971. x, 124 pp., illus. Paper, \$1.95. Reprint of the 1966 edition.

Hour of the Beaver. Hope Sawyer Buyukmihci. Rand McNally, Chicago, 1971. 176 pp., illus. \$5.95.

In the Matter of J. Robert Oppenheimer. Transcript of Hearing before Personnel Security Board and Texts of Principal Documents and Letters. U.S. Atomic Energy Commission. M.I.T. Press, Cambridge, Mass., 1971. xii, 1084 pp. Cloth, \$17.50; paper, \$5.95. Reprint, with additions of the 1954 editions.

International Encyclopedia of Pharmacology and Therapeutics. Section 36, Hematopoietic Agents. J. C. Dreyfus, Ed. Vol. 1, Hematinic Agents. With contributions by A. Aschkenasy and ten others. Pergamon, New York, 1971. xxxiv pp., 380 pp., illus. \$18.75.

International Environmental Action. A Global Survey. Thomas W. Wilson, Jr. Dunellen, New York, 1971. xviii, 364 pp. \$12.50.

Introduction to Phase Transitions and Critical Phenomena. H. Eugene Stanley. Oxford University Press, New York, 1971. xx, 308 pp., illus. \$9.50.

Laser Lines in Atomic Species. C. S. Willett. Pergamon, Oxford, 1971. Paper, £1.75. Progress in Quantum Electronics, vol. 1, part 5, pp. 273-358.

Liver Cancer. A conference, London, June 1969. International Agency for Research on Cancer, Lyon, 1971 (U.S. distributor, American Public Health Association, Washington, D.C.). 176 pp., illus. \$10. IARC Scientific Publications, No. 1.

Mass Spectrometry. Vol. 1. A Review of the Literature Published between June 1968 and June 1970. D. H. Williams and eight others. Chemical Society, London, 1971. x, 324 pp., illus. £7.

Mendelian Inheritance in Man. Catalogs of Autosomal Dominant, Autosomal Recessive, and X-Linked Phenotypes. Victor A. McKusick. Johns Hopkins Press, Baltimore, ed. 3, 1971. xlvii, 738 pp. \$17.50.

Caretaking Costs For 1700 Cages

	Direct labor per year
Cage washing	\$4,073
Bottle washing	584
Fill bottles	632
Change cages & clean	2,632
Feeding	586
Water daily	6,273
Issue & deliver	818
Sex & place wean	2,988
Wash down rooms	519
	<u>11,676</u>
	\$19,189

*Automatic watering
saves \$7,489*

Scratch 30% of animal care costs.

Our story is straightforward. Automatic animal watering systems work — they're cutting out bottles all across the country. And they save money—easily 30% of total animal care labor in most facilities. Our appeal is equally straightforward. If most animal facilities can save that kind of money—yours should find out more. Hence, the coupon.



Please send us the facts about how automatic watering works, how it saves money . . . catalog, specifications, user list.

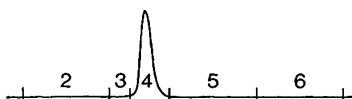
name _____ SC
firm _____
address _____
city _____ state _____ zip _____

Hardco Automatic Watering

Hardco Scientific Div., Fieldstone Corp.
3229 Omni Drive
Cincinnati, Ohio 45245
Circle No. 72 on Readers' Service Card

Don't play
hide and seek
with every L/C peak

ISCO absorbance
recorders deposit
each peak into a
separate test tube.

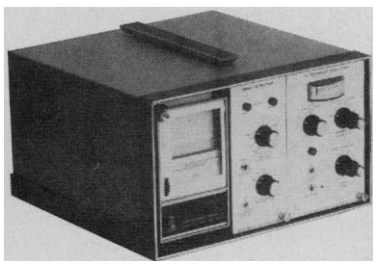


The ISCO Peak Separator detected a UV absorbing peak while tube three was filling, and signaled the fraction collector to move tube four into position to collect it. At the conclusion of the peak, tube five was moved into position to resume normal collection.

Separation is based on change of slope of the curve and is independent of baseline movement. Multiple peaks are accurately resolved even though the curve between them does not return to the baseline.

In addition to the unique Peak Separator, ISCO absorbance monitors offer full scale linear absorbance ranges of .02 to 2.0 A, plus %T; a built in recorder; operation at 254 nm, 280 nm, and other wavelengths to 950 nm; and lowest cost. They have the capability of monitoring two columns at once or one column at two wavelengths.

These are only some of the reasons ISCO UV monitors have been so popular for years. Over 3000 are in use throughout the world. Our current catalog contains a complete description of all models and accessories.



 **INSTRUMENTATION
SPECIALTIES COMPANY**

4700 SUPERIOR LINCOLN, NEBRASKA 68504
PHONE (402) 434-0231 TELEX 48-6453

Circle No. 78 on Readers' Service Card

442

Mobility of PhD's before and after the Doctorate with Associated Economic and Educational Characteristics of States. Office of Scientific Personnel, National Research Council. National Academy of Sciences, Washington, D.C., 1971. xvi, 200 pp., illus. Paper, \$5.95. Career Patterns Report No. 3.

Moon Rocks and Minerals. Scientific Results of the Study of the Apollo 11 Lunar Samples with Preliminary Data on Apollo 12 Samples. Alfred A. Levinson and S. Ross Taylor. Pergamon, New York, 1971. xiv, 222 pp., illus. \$11.50.

NDEA Fellowships for College Teaching, 1958-68. Title IV, National Defense Education Act of 1958. Clarence B. Lindquist. U.S. Office of Education, Washington, D.C., 1971 (available from Superintendent of Documents, Washington, D.C.). x, 180 pp. Paper, \$2.

The Nature of Atoms. Alan Holden. Oxford University Press, New York, 1971. xii, 92 pp., illus. Paper, \$2.50.

The Nature of Reinforcement. A symposium, Pittsburgh. Robert Glaser, Ed. Academic Press, New York, 1971. x, 380 pp., illus. \$13.

The New Ego. Pitfalls in Current Thinking about Patients in Psychoanalysis. Nathan Leites. Science House, New York, 1971. x, 302 pp. \$15.

Numerical Weather Prediction. George J. Haltiner. Wiley, New York, 1971. xviii, 318 pp., illus. \$10.95.

On Being Stoned. A Psychological Study of Marijuana Intoxication. Charles T. Tart. Science and Behavior Books, Palo Alto, Calif., 1971. xviii, 334 pp., illus. \$7.95.

Organic Peroxides. Vol. 2. Daniel Swern, Ed. Wiley-Interscience, New York, 1971. xii, 964 pp., illus. \$39.95.

The Origins of Theoretical Population Genetics. William B. Provine. University of Chicago Press, Chicago, 1971. xii, 202 pp. \$7.75. Chicago History of Science and Medicine.

Outcasts from Evolution. Scientific Attitudes of Racial Inferiority, 1859-1900. John S. Haller, Jr. University of Illinois Press, Urbana, 1971. xvi, 228 pp., illus. \$7.50.

Photochemistry. Vol. 2. A Review of the Literature Published between July 1969 and June 1970. D. Bryce-Smith, A. Gilbert, W. M. Horspool, and D. Phillips. Chemical Society, London, 1971. xviii, 818 pp., illus. £12. A Specialized Periodical Report.

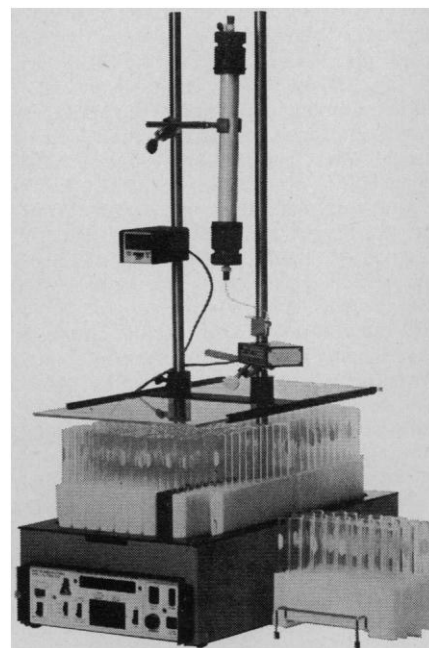
Place and People. An Ecology of a New Guinean Community. William C. Clarke. University of California Press, Berkeley, 1971. xiv, 266 pp., illus. \$9.

Plants and Man. Samuel R. Rushforth and William D. Tidwell. Burgess, Minneapolis, 1971. xii, 200 pp., illus. Spiral bound, \$4.75.

Polyhedron Models. Magnus J. Weninger. Cambridge University Press, New York, 1971. xii, 208 pp., illus. \$14.50.

Power Generation and Environmental Change. Symposium of the Committee on Environmental Alteration, American Association for the Advancement of Science, Boston, December 1969. David A. Berkowitz and Arthur M. Squires, Eds. M.I.T. Press, Cambridge, Mass., 1971. xxiv, 440 pp., illus. \$16.95.

Only ISCO
fraction collectors
have the
time-saving
delay.



Effluent peaks between recorded event marks aren't always deposited in the indicated test tube. Event marks locate tube changes, but the adjacent curve monitors the effluent as it is passing through the flow cell, not into the tubes. The resulting discrepancy can be quite large if the effluent tubing, flow rate, and collected sample size are not perfect. Manual chart corrections are inaccurate and time consuming.

ISCO linear and circular fraction collectors are available with an automatic time delay. This solid state, electronic timer will delay the tube change the required period after event marking the recorder curve. Easy adjustment from one second to 9.9 minutes gives you perfect curves for any run.

The automatic delay is only one of the many features of ISCO fraction collectors. Completely solid state circuitry, easy cleanup after spillage, and low cost are other features completely described in the current ISCO catalog. It has a brown square on the cover—if you don't have your copy, send for it today.

 **INSTRUMENTATION
SPECIALTIES COMPANY**

4700 SUPERIOR LINCOLN, NEBRASKA 68504
PHONE (402) 434-0231 TELEX 48-6453

Circle No. 79 on Readers' Service Card

SCIENCE, VOL. 174

Predicament of the University. Henry David Aiken. Indiana University Press, Bloomington, 1971. x, 404 pp. \$11.95.

Preparative Inorganic Reactions. Vols. 6 and 7. William L. Jolly, Ed. Wiley-Interscience, New York, 1971. Vol. 6, viii, 254 pp., illus.; vol. 7, vi, 218 pp., illus. \$17.50 each.

Price Indexes and Quality Change. Studies in New Methods of Measurement. Zvi Griliches, Ed. Harvard University Press, Cambridge, Mass., 1971. x, 288 pp., illus. \$7.

The Problems of Drug-Resistant Pathogenic Bacteria. A conference, October 1970. Eugene L. Dulaney and Allen I. Laskin, Eds. New York Academy of Sciences, 1971. 416 pp., illus. Paper, \$36. *Annals of the New York Academy of Sciences*, vol. 182.

Proceedings of the Symposium on Submillimeter Waves. New York, March 1970. Jerome Fox, Ed. Polytechnic Press, Brooklyn, N.Y., 1971. xlviii, 726 pp., illus. \$25. Polytechnic Institute of Brooklyn Symposia Series.

Psychobiology. Behavior from a Biological Perspective. James L. McGaugh, Ed. Academic Press, New York, 1971. xvi, 366 pp., illus. \$14.50.

Psychology. Harry F. Harlow, James L. McGaugh, and Richard F. Thompson. Albion, San Francisco, 1971. x, 482 pp., illus. \$10.

Rapid Population Growth. Consequences and Policy Implications. Published for the National Academy of Sciences by Johns Hopkins Press, Baltimore, Md., 1971. xiv, 696 pp., illus. Cloth, \$20; paper, \$2.45.

Recent Progress in Hormone Research. Vol. 27, Proceedings of a conference, Mont Tremblant, Quebec, August 1970. E. B. Astwood, Ed. Academic Press, New York, 1971. xii, 672 pp., illus. \$35.

Regulation of Micronutrient Status of Plants by Chelating Agents and Other Factors. Arthur Wallace. Published by the author, Los Angeles, 1971. x, 310 pp., illus. \$6. UCLA 34P51-33.

Residue Reviews. Residues of Pesticides and Other Foreign Chemicals in Foods and Feeds. Vols. 37 and 38. Francis A. Gunther and Jane Davies Gunther, Eds. Springer-Verlag, New York, 1971. vol. 37, xii, 204 pp., illus. \$14.80; vol. 38, viii, 122 pp., illus., \$14.20.

The Reticuloendothelial System and Immune Phenomena. Proceedings of a meeting, Freiburg, Germany, August 1970. N. R. DiLuzio and K. Flemming, Eds. Plenum, New York, 1971. xiv, 442 pp., illus. \$22.50. *Advances in Experimental Medicine and Biology*, vol. 15.

Ring-Disc Electrodes. W. J. Albery and M. L. Hitchman. Clarendon (Oxford University Press), New York, 1971. xiv, 176 pp., illus. Paper, \$8. Oxford Science Research Papers.

Risk-Taking Behavior. Concepts, Methods, and Applications to Smoking and Drug Abuse. Richard E. Carney, Ed. Thomas, Springfield, Ill., 1971. xii, 212 pp. \$13.75.

The Rust Fungi of Cereals, Grasses, and Bamboos. George Baker Cummins. Springer-Verlag, New York, 1971. xvi, 570 pp., illus. \$19.50.

Science Fair Experiments. Byron G.

FRACTO-SCAN™

Ultraviolet Photometer for Monitoring Liquid Effluent

The highly stabilized deuterium light source provides a uniform energy band thus permitting the selection of any wave length in the UV range. Simplicity of operation, automatic base line compensation, four sensitivity ranges and an output linear in optical density are combined in the most stable and advanced UV monitor now available.

The versatile Fracto-Scan can be used with any fraction collector. Write today for complete information.



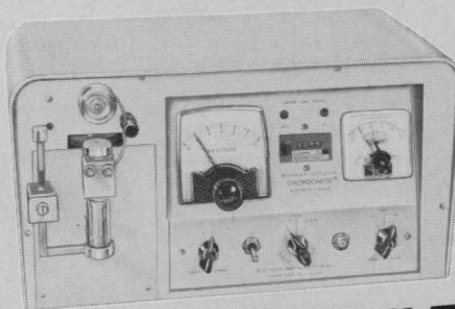
BUCHLER INSTRUMENTS DIVISION
NUCLEAR-CHICAGO CORP.

A SUBSIDIARY OF G. D. SEARLE & CO.

1327 SIXTEENTH STREET, FORT LEE, NEW JERSEY, 07024

Circle No. 74 on Readers' Service Card

Request Bulletin SC-3-5100A



Determine
Serum Chloride
in 40 Seconds

The Direct
Readout...

BUCHLER-COTLOVE CHLORIDOMETER

Fast, direct readout in seconds and mEq/L • Sensitivity better than 1 ppm • Accuracy $\pm 0.5\%$ in wide range of concentrations
• High reproducibility with only 10 μ l sample • Ideal for sweat chloride determination in pediatric and clinical applications
• Recognized method for standardizing automatic analyzers and for individual or multiple chloride determinations



BUCHLER INSTRUMENTS DIVISION
NUCLEAR-CHICAGO CORP.

A SUBSIDIARY OF G. D. SEARLE & CO.

1327 SIXTEENTH STREET, FORT LEE, NEW JERSEY, 07024

Circle No. 75 on Readers' Service Card

Request Bulletin SC 4-2000

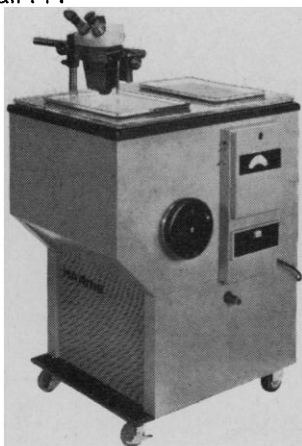
The First Wide Range Microtome-cryostat... Temperatures from -15°C to -50°C... Frozen Sections from 40 μ to 1 μ .

The Harris LoTemp model WRC is two microtome-cryostats in one. A single unit that can do both routine diagnostic procedures and such sophisticated research procedures as thin section light microscopy, autoradiography, fluorescence microscopy and other histological procedures, at a cost comparable to presently available routine cryostats.

The Harris model WRC is compact... can be moved anywhere it's needed. The cold chamber has extra room for tissue handling, storage or freeze drying. Full opening top with special access ports combines the features of a totally closed system with the easy accessibility of open top models.

Available equipped with Jung or International Equipment Corp. microtomes, or cryostat only prepared for installation of your present I.E.C. microtome. Installed stereo zoom microscope also available.

For a full description of the Harris WRC and its wide range of additional features write or call...



Harris Manufacturing Co., Inc.
308 River St., Cambridge, MA 02139
(617) 864-4000

Wels. Auerbach, Princeton, N.J., 1971. x, 146 pp., illus. \$5.95. A Vertex Book.

Science for Society. Proceedings of a conference, Atlanta, Ga., October 1970. John E. Mock, Ed. Georgia Science and Technology Commission, Atlanta, 1971. viii, 194 pp., illus.

Scientific Activities, 1970. Weizmann Institute of Science, Rehovot, Israel, 1971. viii, 406 pp. Paper.

Spectroscopic Tricks. Vol. 2. Leopold May, Ed. Plenum, New York, 1971. xiv, 374 pp., illus. \$9.50. Reprinted from the 1966-1969 editions of *Applied Spectroscopy*.

Studies of Fossiliferous Amber Arthropods of Chiapas, Mexico. Part 2. Contributions by Alexander Petrunkevitch and others. University of California Press, Berkeley, 1971. vi, 106 pp. + plates. Paper, \$4.50. University of California Publications in Entomology, vol. 63.

Symposia Mathematica. Vol. 6. A symposium, Rome, February 1970. Instituto Nazionale di Alta Matematica. Academic Press, New York, 1971. vi, 404 pp., illus. \$17.50.

Symposia on Theoretical Physics and Mathematics. Vol. 10. Lectures from a symposium, Madras, 1969. Alladi Ramakrishnan, Ed. Plenum, New York, 1970. xiv, 158 pp., illus. \$15.

Thermodynamics: Principles and Applications. Frank C. Andrews. Wiley-Interscience, New York, 1971. xiv, 288 pp., illus. \$9.95.

Thin-Layer Chromatography. Cumulative Bibliography II, 1967-1969. Dieter Jänchen, Ed. Camag, New Berlin, Wis., 1971. 224 pp. Paper, \$9.75.

Topics in Stereochemistry. Vol. 6. Norman L. Allinger and Ernest L. Eliel, Eds. Wiley-Interscience, New York, 1971. xii, 296 pp., illus. \$19.95.

Transactions of the Astronomical Observatory of Yale University. Vol. 30, Catalogue of the Positions and Proper Motions of Stars between Declinations -40° and -50°, Reduced to the Equinox of 1950 without Applying Proper Motions. Dorrit Hoffleit, with the major collaboration of Dorothy Eckert, Phillip Lü, and Katharine Paranya. Yale University Observatory, New Haven, Conn., 1970. 270 pp., illus. Paper.

200,000,000 Years beneath the Sea. Peter Briggs. Holt, Rinehart and Winston, New York, 1971. xii, 228 pp. + plates. \$7.95.

The Use and Abuse of Social Science. A conference, New Brunswick, N.J., November 1969. Irving Louis Horowitz, Ed. Transaction Books, New Brunswick, N.J., 1971 (distributor, Dutton, New York). x, 350 pp. Cloth, \$8.95; paper, \$3.95. *Transaction Studies in Social Policy*, vol. 2.

The Vertebrate Body. Shorter Version. Alfred Sherwood Romer. Saunders, Philadelphia, ed. 4, 1971. viii, 452 pp., illus. \$8.75.

Vinyl and Diene Monomers. Part 3. Edward C. Leonard, Ed. Wiley-Interscience, New York, 1971. xii pp. + pp. 1205-1704, illus. \$24.95. *High Polymers*, vol. 24, part 3.

What You Should Know About Blood Types, Transfusions, Rh, and Heredity. Addine G. Erskine. Altamont, Berkeley, Calif., 1970. xii, 156 pp., illus. Paper.

Personnel Placement

POSITIONS WANTED

Editor, Writer, Literature Reviewer. Chemical training (Zurich ETH, Columbia University) and experience. New York City vicinity preferred. Available part-time. Box 375, SCIENCE. X

Physiologist, Ph.D. desires interesting and responsible position in health sciences or biology. Experience in teaching/research/administration/program and facility planning. Box 376, SCIENCE. X

Administrative Position sought in medical or biological research or educational institution. Molecular biologist, efficient organizer, skilled communicator, extensive experience in research and teaching, seeks full utilization of abilities. Box 372, SCIENCE. X

Cell Biologist, Ph.D. (Berkeley 1968), 29, broad university teaching experience (freshman biology through specialized graduate courses), interesting published research. Desires a new teaching position. Box 373, SCIENCE. X

Chemical Oceanography—analytical/inorganic chemistry. Experience in spectrochemical, radiochemical, and electrochemical techniques. Ph.D. 1968 in analytical chemistry. Postdoctorals and publications. Currently employed in teaching and research position. Desires faculty appointment in chemistry and/or chemical oceanography. Box 374, SCIENCE. X

Physiologist-Lipid Biochemist, Ph.D., 1968. Three years of postdoctoral experience. Desires position in university or pharmaceutical industry. Broad background in lipid metabolism, methodology, and use of isotopes. Capable of working in multidisciplinary program. Box 371, SCIENCE. X

Systems and Quantitative Ecologist. Ph.D. postdoctorate research, teaching experience. Publications in plant ecology. Age 27. Extensive computer experience. Training and experience in systems analysis. Prefers research and teaching in university. Box 361, SCIENCE. 10/22; 11/5, 19

POSITIONS OPEN

UNIVERSITY OF AARHUS, DENMARK

Applications are invited for position as assistant professor at the Institute of Anatomy. Preferred research interest: neuroanatomy or ultrastructural cell biology. Well-equipped laboratories for electron microscopy, tissue fractionation, histochemistry, and neuroanatomy.

Further information concerning research facilities, teaching responsibilities and salary may be obtained from the Institute of Anatomy, University of Aarhus, 8000 Aarhus C, Denmark.

Applications with curriculum vitae should be sent to the **Administration Office, University of Aarhus, 8000 Aarhus C**, not later than 1 December 1971.

BIOENGINEERING SCIENTIST

Well-known Bioinformation Systems group has an opening for an experienced scientist in sensory research related to the following fields: Basic vision and tactile research, vision related instrumentation, sensory aids, psychophysics, human control and display studies. Send inquiries to

Box 377, SCIENCE

RADIOIMMUNOASSAY CLINICAL LAB TESTING

Part-time consultant needed who knows marketing and technology.

Box 378, SCIENCE