

New 2 Kg optical projection balance ...0.1g accuracy, fast, rugged

New Torbal PL-12 top loader (2000g capacity, tare to capacity plus 325g, 0.1g accuracy) provides optical projection readout... fast, easy-to-read, foolproof weighing.

Easy reading of optical projection with high-quality optics, coated first-surface mirrors, high illumination.

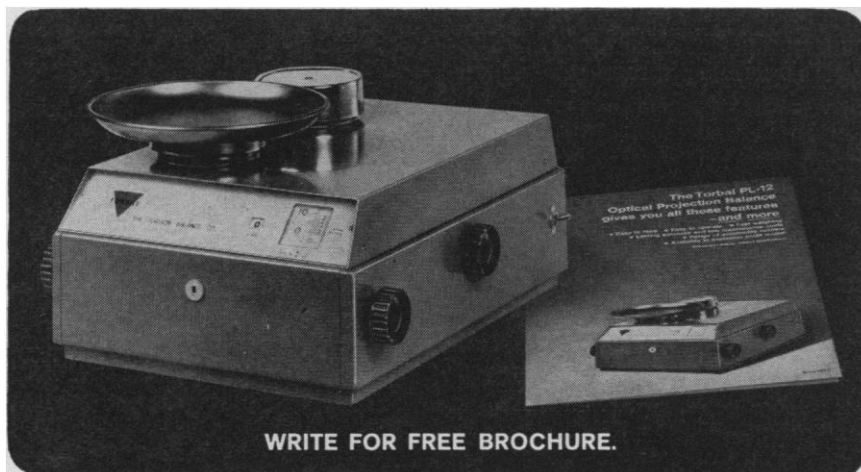
Easy-to-operate internal weight handling to achieve weighing by substitution with 100 gram increments to 1 kilogram.

Long-lasting accuracy—rugged, thanks to superior friction-free torsion-band weighing

mechanism; no knife edges to dull or chip.

Fast weighing—with no friction to overcome or to build up over the life of the balance, dash pot can be adjusted to attain rest point immediately without undue oscillation.

As is typical in Torbal optical balances, minor changes in level do not change the zero point. Long-lasting accuracy of the Torsion construction has been proved by continuous weighings (over 1,750,000 operations) 24 hours a day for 6 months. Also available in an explosion proof model.



THE TORSION BALANCE COMPANY Clifton, New Jersey. Sales offices in Chicago, Ill.; San Mateo, Cal.; Pittsburgh, Pa.; Montreal, Quebec; and Windsor, England. Balances manufactured in Waterford, Ireland and Clifton, New Jersey.

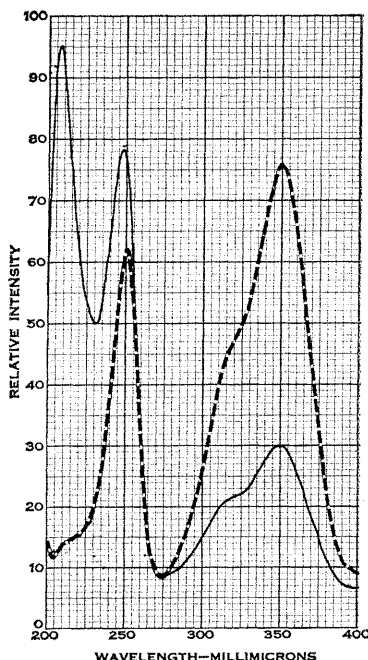


AAAS Socio-Psychological Prize

Through the generosity of the late Arthur F. Bentley, the AAAS offers an annual prize of \$1000 for a theoretical and experimental essay that furthers understanding of the psychological-social-cultural behavior of human beings. The prize is intended to encourage studies and analyses of social behavior based on explicitly stated assumptions or postulates leading to conclusions or deductions that are tested by systematic empirical research or, stated in other terms, to encourage in social inquiry the development and application of the kind of dependable methodology that has proved so fruitful in the natural sciences.

Entries should present a completed analysis of a problem, the relevant data, and an interpretation of the data in terms of the postulates with which the study began. Unpublished manuscripts and manuscripts published after 1 January 1970 are eligible. The deadline for receipt of entries in the 1971 contest is *1 September*. For instructions on how to submit an entry, write to: **Socio-Psychological Prize Contest, 1515 Massachusetts Ave., NW, Washington, D.C. 20005.**

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FOR All present owners of the Aminco-Bowman Spectrophotofluorometer (SPF), Aminco now offers a new Ratio Attachment to bring the stability of the oldest instrument up to the level of the newest ratio model.

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- ☐ Increase instrument stability to state-of-the-art levels by compensating for arc wander and electronic drift.
- ☐ Bring excitation and emission spectra closer to known spectral characteristics. Note the absorption peak at 208 nm and the ratio of the 250 nm and 350 nm peaks.
- ☐ Correct for peak shift due to low intensity in far UV.
- ☐ Increase signal-to-noise ratio by automatically subtracting detector dark current.

Curves showing excitation of 1 ppm quinine sulfate in .1 N H₂SO₄ (Emission at 450 nm).

Dotted curve, run in the standard non-ratioing mode, shows peaks at 250 nm and 350 nm. The 250 peak is less than the 350 peak because of decreased UV excitation radiation at 250 nm caused by use of an old lamp. Note the slight shoulder at 313 nm and the absence of peaks below 250 nm.

The solid curve is taken from the same sample run in the same instrument, but operating with the ratio attachment. An absorption peak at 208 nm becomes evident. The peak at 250 nm is now larger than the peak at 350 nm approaching the known ratios of these peaks. The shoulder at 313 nm is now well defined. There is also a slight shift toward the UV in the 250 nm peak. This shift reveals the true absorption peak, unaffected by lamp output.

To receive complete information and specifications, write to:



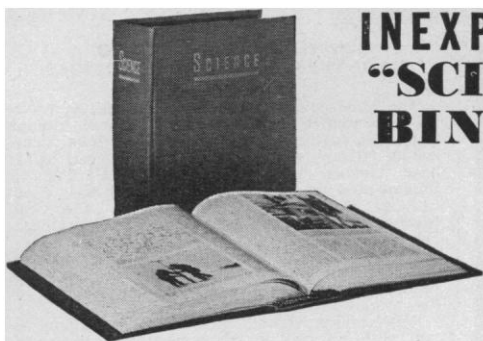
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Bernard Greenberg

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Behavior Research position desired by the Physicist Ph.D., postdoctoral. Extensive training in mathematics, statistical physics. Write P. Mikes, CWRU, OLIN Centre for Materials, Cleveland, Ohio 44106. Available June. X

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Biologist, Ph.D., 35, 9 years' university experience. Desires teaching and/or administrative position in undergraduate-oriented institution. Particular interest in core curriculum development, innovative teaching. Box 150, **SCIENCE**. X

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Biophysicist, Ph.D. Principal experience in radiation biology, electron microscopy, sensory physiology and electrophysiology. Patents, publications, interests, and ideas in both biology and physics. Background of contract and grant research. Desires cancer/medical research position. Can direct graduate students. Box 152, **SCIENCE**. X

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Postdoctoral Fellowship or Research Wanted: Medical Science-Chemistry-Radiobiology B.A., B.S., M.S., plus. Graduate honors 3.6/4.0. Three years' VA isotopes research. Honorably discharged. Interest: Cancer. 1613-74th Street, Kenosha, Wisconsin (414) 657-3702.

Physiologist, 37, Ph.D. Postdoctoral training in reproductive physiology, industrial research experience in artificial organs research seeks teaching/research position. Box 154, **SCIENCE**. 4/9

Physiological-Operant Psychologist, Ph.D. 1968. Postdoctoral. Experience in teaching and research. Publications concern aggression, eating, drinking, and brain stimulation. Desires teaching and/or research position. Box 155, **SCIENCE**. 4/9

Physiological Psychologist, 7 years of research teaching and administrative experience; over 30 publications; associate director of well-known laboratory investigating psychopharmacology, biochemistry and psychophysiology of sleep. Desires position commensurate with training and experience. Box 156, **SCIENCE**. X

Research, M.D., Biometrician. Background in anatomy and physiology. Six years' experience in advanced computer programming, some systems programming and hospital computerization. Extensive publications in animal physiology and clinical medicine, including two books and several conferences. Wants work in computer and biometrics field, or organization of interdisciplinary research. Box 157, **SCIENCE**. X

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Toxicologist, Ph.D. pharmaceutical sciences, strong background in organic, analytical, and biochemistry; publications. Desires academic/industrial research position, any location. Box 160, **SCIENCE**. X

Virologist, Ph.D. Interferon expert with industrial experience seeks position as supervisor of industrial interferon development program. \$22,500. Box 159, **SCIENCE**. X

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The Department of Veterinary Anatomy at the University of Saskatchewan has an Assistant or Associate Professorship available in teaching and research in the electron microscopy of animal tissues. Salary is \$12,000 to \$15,000 per year depending on ability and experience. Inquiries should be addressed to **Dr. A. Horowitz, Head, Department of Veterinary Anatomy, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.**

Clinical research unit at Tulane Medical School desires young Ph.D. (biochemist or analytical chemist) interested in drug metabolism and human research. Salary and academic rank will be commensurate with background. Send curriculum vitae and references to **Therapeutics Section, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, Louisiana, 70112.**

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... capable of joining one of our surgical-suture equipment R&D teams (polymer chemists and product development engineers) working with animal surgery in an efficacy evaluation capacity for new product development.

The basic prerequisites: a B.S. or M.S. in Physiology, preferably with a biochemistry minor; several years in animal surgery, efficacy evaluation, and biomedical implants; good manual dexterity and familiarity with suture and/or surgical devices. In addition to technical proficiency the successful applicant needs the administrative capabilities requisite to supervising technicians; and proficiency in report writing. If your background and standards are on a par with ours, we'd like to hear from you. Write, including resume and salary history plus requirements, to:

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Applications are invited for the position of Dean of the Faculty of Graduate Studies. Applicants will be expected to have an established record of scholarship, experience in the supervision of graduate students, senior academic status and preferably a record of administrative competence.

Competition closes 30 June 1971.

Reply to: **Mr. Wm. F. Hyslop, Secretary**
Advisory Search Committee
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DEPARTMENT CHAIRMAN, BIOLOGY

Ph.D. required. Major in zoology or physiology and anatomy preferred. Previous teaching and/or administrative experience desirable. Salary and rank open. Applications should be addressed to **Dr. Ralph L. Van Beursem, Dean of Science, Rochester Institute of Technology, One Lomb Memorial Drive, Rochester, New York 14623.**

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Responsibilities will include teaching basic aspects of the subject in an integrated program, with more advanced elective and graduate work. Research is already under way in a number of the medically related cell sciences, including immunology and membrane science, in experimental pathology, and in other basic and clinical disciplines. Those appointed will develop research along nondepartmental lines, with collaborative work specially encouraged.

Please write to **Dr. K. B. Roberts, Associate Dean, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada**, preferably before 15 April 1971, including a full curriculum vitae.

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INSTITUTO VENEZOLANO DE INVESTIGACIONES CIENTIFICAS (I.V.I.C.)

The Venezuelan Institute for Scientific Research, an autonomous governmental research organization, is inviting for **Research Positions** Venezuelan citizens who are presently undertaking or have finished graduate work in the field of fundamental or applied Chemistry, Physics, Electronics, Hydrology, Geology, and Electrical, Mechanical, Chemical, Ceramics, and Metallurgical Engineering.

Candidates must possess aptitude and outstanding scholarly potential for challenging research responsibility in the science and technology of the aforementioned field.

Applications should include a curriculum vitae, with an outline of current and likely future research work and professional references to:

The Director

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ZOOLOGIST: Department Head with strong interests in active undergraduate and graduate teaching and research programs for Zoology Department. Duties include development of curriculums for undergraduate and graduate programs, development of research programs, as well as administration of general department affairs. Position available 1 July 1971. Some experience in administration desirable. Rank and salary dependent upon qualifications. Send vitae including three references, to: **Dr. Rufus K. Guthrie, Director, Division of Biology, Clemson University, Clemson, South Carolina 29631.**

Clemson University offers equal educational opportunities to all persons without regard to race, creed, color, or national origin. This policy applies in all matters, including employment and promotion of teaching and nonteaching personnel.

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