

# Science Exhibition

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The AAAS International Science Exhibition, held annually in conjunction with the meetings of the Association, will be housed this year in the Exhibition Hall of the Stevens Hotel, Michigan Boulevard and Eighth Street. The Stevens Hotel is conveniently located and can be reached easily from all points in Chicago.

The exhibition will be open on Friday, December 26, from 1:00 to 9:00 P.M.; on December 27, 28, and 29, from 9:00 A.M. to 5:00 P.M.; on December 30, from 1:00 to 9:00 P.M.; and on December 31, from 9:00 A.M. to 12:00 noon.

The exhibition always brings together displays of products and services of substantial interest to scientists. Members will find it convenient to proceed directly to the exhibition after having completed their registration in the foyer just outside of the Exhibition Hall. Admission is restricted to members and registered guests. College students may be given special passes upon application to the director of the exhibit. High school students are not admitted.

## Directory of Exhibits

The standards for exhibiting at the AAAS meetings have always been high, and this year's exhibitors have qualified in every way for participation. The Association expresses appreciation on behalf of its members for the cooperation of the exhibitors in organizing an excellent series of technical and scientific exhibits.

## Special Exhibits

The AAAS International Science Exhibition this year presents three special exhibits, all of which are grouped around the theme, "Photography in Science." Scientists will find these of unusual interest with regard to both the results shown and the techniques developed and displayed through the medium of finished photographs.

**The First International Salon, "Photography in Science."** Early in 1947 the Smithsonian Institution, Division of Graphic Arts, and the Association's publication, *The Scientific Monthly*, announced plans for a jointly sponsored photographic competition which would be restricted to scientists. The purpose of the competition was to extend the possibilities of research through functional photography. The officers of both sponsoring organizations felt that the results achieved in the first year of the competition justified the announcement of a second competition in 1948.

The First Annual Competition resulted in the submission of nearly 400 prints, two-thirds of which were in black and white and one-third in color. A great majority of these prints will be on display in the Exhibition Hall during the full time of the meeting. Information about the Second Annual Competition will be available at that time.

The Association acknowledges the assistance of the staff of the Armour Research Foundation for arranging the hanging of this exhibit.

**Atomic Energy.** The editors of *Life*, the national pictorial weekly, have gathered together a significant series of photographs, many of which have not been published previously, under the title of "Atomic Energy." This unique series of photographs will have its premier showing at the meetings in Chicago. The Association is indebted to the editors of *Life* not only for the large amount of time and effort which went into producing this special showing but also for their willingness to undertake it for the benefit of the members.

**Biological Photography.** For many years the Biological Photographic Association has been the leading association in the development of photography as a tool for biological research. At the Oklahoma City annual meeting of the BPA a number of outstanding prints were gathered together for awards and further showing through other scientific associations. The Biological Photographic Association graciously consented to send a group of 70 prints to the Chicago meetings prior to circulating them in other parts of the country. The Association expresses its appreciation for this courtesy which will enable members in all fields of science to see these excellent pictures.

The members of the exhibition staff feel that these three photography exhibits should be seen by every member in attendance at the meetings. The staff will gladly arrange to have complete technical details about any print or group of prints furnished to any member desiring this information.

**American Association for the Advancement of Science.** The Association, as the largest general scientific society in the country, participates in many ways in the activities of other societies. In addition, it publishes *Science* and *The Scientific Monthly* regularly. At intervals it publishes the *Association Proceedings*, which usually covers a period of four years of the Association's activities plus a directory of the membership at the time of each publication. During recent years the Association has also pub-

lished more than 20 technical symposia in a variety of fields. These symposia have received wide acclaim not only for the contribution made to the research literature but for the excellence of editorial format and direction.

The Association's booth will show copies of the technical symposia which are still in print and a group of *Proceedings* from the first 100 years of the Association's operation. Members of the publications staff from the Washington office will be in attendance at all times. It is hoped that scientists who wish to publish articles in either of the journals will take advantage of this opportunity to meet the editorial personnel. Members of the Circulation Department will be on hand to receive subscriptions for the publications.

The Centennial celebration of the Association will be held in Washington, September 13-17, 1948. The Greater National Capital Committee of the Washington Board of Trade has arranged an interesting exhibit about the city of Washington and the District of Columbia. Members planning to attend the Centennial celebration in Washington will find this a convenient time to make inquiry about hotel accommodations and points of interest which they may want to visit during their stay in Washington.

## Science Theater

This year for the first time the Association is sponsoring a Science Theater, the purpose of which is to emphasize the use of motion pictures in recording scientific research. Films have been submitted by academic, governmental, and industrial research organizations from all over the country, and promise to be of high quality. The films cover such a variety of subjects that the Science Theater is certain to be of interest to every member attending the meetings.

The hours during which the theater will be open are as follows: December 26, 2:00 to 5:00 P.M. and 7:00 to 9:00 P.M.; December 27, 28, and 29, 9:00 A.M. to 12:00 noon and 2:00 to 5:00 P.M.; December 30, 2:00 to 5:00 P.M. and 7:00 to 9:00 P.M.; December 31, 9:00 A.M. to 12:00 noon.

Final information concerning the schedule of films to be shown will be available at the Association booth in the Exhibition Hall. The tentative schedule follows:

Friday, December 26

2:00-5:00 P.M.

*High-Speed Motion Pictures.* Prof. Charles E. Locke, Massachusetts Institute of Technology. 11 minutes.

*3,000 Pounds Per Square Inch.* Taylor-Wharton Iron & Steel Company. 30 minutes.

*Ceiling Unlimited.* Aviation Department, Socony-Vacuum Oil Company. 28 minutes.

*Seeing the Unseen.* Prof. Charles E. Locke, Massachusetts Institute of Technology. 11 minutes.

*Body Care and Grooming.* McGraw-Hill Book Company. 17 minutes.

*The Nose, Throat, and Ears.* McGraw-Hill Book Company. 10 minutes.

*The Body Fights Disease.* McGraw-Hill Book Company. 15 minutes.

*The Story of Reproduction.* McGraw-Hill Book Company. 23 minutes.

*Emotional Health.* McGraw-Hill Book Company. 21 minutes.

*Note:* The McGraw-Hill Book Company has recently released the above 5 films. The films represent a substantial investment on the part of the Company to explore and extend the use of film as a teaching aid when used in conjunction with text material.

7:00-9:00 P.M.

*Malaria in Monkeys.* Dr. Melvin H. Knisely, Department of Anatomy, University of Chicago. 2 hours.

Saturday, December 27

9:00 A.M.-12:00 noon

*Dental Silicate Cement.* National Bureau of Standards. 18 minutes.

Title to be announced. University of Maryland Dental School.

*Malaria in Monkeys.* Dr. Melvin H. Knisely, Department of Anatomy, University of Chicago. 2 hours.

2:00-5:00 P.M.

*Energy Release From Food.* The Upjohn Company. 26 minutes.

*Effect of Drugs on the Heart in Situ.* Dr. R. P. Walton, Medical College of the State of South Carolina. 32 minutes.

*The Medical Motion Picture—Its Development and Present Application.* American Medical Association. 32 minutes.

*Keratoplasty—Circular Transplant Technic.* Dr. Ramon Castroviejo, The Institute of Ophthalmology, Columbia Presbyterian Medical Center. 15 minutes.

*Keratoplasty—Square Transplant Technic.* Dr. Ramon Castroviejo, The Institute of Ophthalmology, Columbia Presbyterian Medical Center. 18 minutes.

*Precancer Diagnosis of Cervix by Cytology.* Gyne-cytology Laboratory, Royal Victoria Hospital, Montreal, Canada. 19 minutes.

Sunday, December 28

9:00 A.M.-12:00 noon

*Continuous Spinal Analgesia in Caesarean Section.* Dr. John C. Ullery, Philadelphia. 15 minutes.

*Open Drop Ether.* British Information Services. 31 minutes.

*Nitrous Oxide-Oxygen-Ether Anaesthesia.* British Information Services. 27 minutes.

*The Carbon-Dioxide Absorption Technique.* British Information Services. 24 minutes.

*Signs and Stages of Anaesthesia.* British Information Services. 23 minutes.

*Endotracheal Anaesthesia.* British Information Services. 26 minutes.

2:00-5:00 P.M.

*Operative Shock.* British Information Services. 16 minutes.

*Respiratory and Cardiac Arrest.* British Information Services. 15 minutes.

*Handling and Care of the Patient.* British Information Services. 26 minutes.

*Spinal Anaesthesia.* British Information Services. 34 minutes.

*Intravenous Anaesthesia, Part I.* British Information Services. 30 minutes.

*Intravenous Anaesthesia, Part II.* British Information Services. 25 minutes.

*Note:* All of the films shown in this symposium on anaesthesia were made available to the exhibition through the courtesy of the British Information Services. The exhibition staff is particularly pleased to present them at this time not only as evidence of the international exchange of scientific information but also for the purpose of showing what scientists in other countries are doing.

Monday, December 29

9:00 A.M.—12:00 noon

*Magnesium—Metal From the Sea.* Bureau of Mines. 23 minutes.

*Synthetic Rubber.* Bureau of Mines. 21 minutes.

*Body Care and Grooming.* McGraw-Hill Book Company. 17 minutes.

*The Nose, Throat, and Ears.* McGraw-Hill Book Company. 10 minutes.

*The Body Fights Disease.* McGraw-Hill Book Company. 15 minutes.

*The Story of Reproduction.* McGraw-Hill Book Company. 23 minutes.

*Emotional Health.* McGraw-Hill Book Company. 21 minutes.

2:00–5:00 P.M.

*Light Control Through Polarization.* Polaroid Corporation. 20 minutes.

*High-Speed Fastax Camera.* Bell Telephone Laboratories. 15 minutes.

*Drama of Steel.* Bureau of Mines. 34 minutes.

*Lubrication.* Bureau of Mines. 30 minutes.

*Magnetic Recording.* Armour Research Foundation.

*Counter Gravity Casting.* Armour Research Foundation.

*Radio Frequency Heating.* RCA Laboratories.

*Image Orthicon.* RCA Laboratories.

Tuesday, December 30

2:00–5:00 P.M.

*Arizona—Its Mineral Resources and Scenic Wonders.* Bureau of Mines. 40 minutes.

*Evolution of the Oil Industry.* Bureau of Mines. 34 minutes.

*Dental Silicate Cement.* National Bureau of Standards. 18 minutes.

Title to be announced. University of Maryland Dental School.  
*Use of the Calf for Surgical Training and Research.* Dr. Ivan E. Martin, Los Angeles.

*Explosions on the Sun.* Harvard College Observatory and University of Colorado. 12 minutes.

7:00–9:00 P.M.

*Photography as an Aid to Mine Development.* Naval Ordnance Laboratory.

*Magnetic Recording.* Armour Research Foundation.

*Counter Gravity Casting.* Armour Research Foundation.

*High-Speed Fastax Camera.* Bell Telephone Laboratories. 15 minutes.

*Drama of Steel.* Bureau of Mines. 34 minutes.

Wednesday, December 31

9:00 A.M.—12:00 noon

Repeat showing of selected films by special request.

## Science Library

Continuing a practice developed by the AAAS International Science Exhibition many years ago there will be a cooperative display of new books and established text and reference works submitted by the leading publishers in the United States. This year the Science Library will be managed by the Illinois Chapter of the Special Libraries Association. This group of librarians will arrange the displays and have the library staffed with librarians well versed in the publications and literature of all major fields of science.

A special feature of the library this year will be a display of a group of standard reference books selected by a committee of librarians.

The following publishers have indicated that selected books published by them will be available for inspection during the meetings: Academic Press, Inc.; Annual Reviews, Inc.; The Blakiston Company; Boni & Gaer, Inc.; Chemical Publishing Co.; Chronica Botanica Co.; Columbia University Press; Comstock Publishing Company; Cornell University Press; Crown Publishers; D. Appleton-Century Company, Inc.; Dodd, Mead & Company, Inc.; Garland Publications; Harper & Brothers; Harvard University Press; D. C. Heath and Company; Henry Holt & Co.; Houghton Mifflin Company; Interscience Publishers, Inc.; Iowa State College Press; Journal of Chemical Education; Lea & Febiger; Longmans, Green & Co., Inc.; McGraw-Hill Book Company, Inc.; The Macmillan Company; The C. V. Mosby Company; Philosophical Library; Pitman Publishing Corporation; Princeton University Press; Reinhold Publishing Corporation; W. B. Saunders Company; Peter Smith; Stanford University Press; University of Chicago Press; University of Wisconsin Press; D. Van Nostrand Company; The Viking Press, Inc.; John Wiley & Sons, Inc.; and Yale University Press.

In many instances the books shown in the Science Library are only a portion of the total list of titles published by each firm. Complete catalogues may be secured by leaving such a request with the librarian in charge. Many of the firms depositing books in the Science Library also have more complete displays in their own booths. Visitors to the Science Library are urged to visit these other booths to examine current publications.

**Allyn and Bacon**  
**Boston, Massachusetts**  
**Booth No. 5**

Allyn and Bacon beg leave to call special attention to their complete 12-year science series to be on exhibit. This series includes the *Rainbow readers* and *Workbooks* for the first 6 grades, followed by Carpenter and Wood's *Our environment series* for the junior high school years, and Smallwood's *Biology*, Fuller, Brownlee, and Baker's *Physics*, and Brownlee and others' *Chemistry*. Several of these books are national leaders. All are provided with workbooks and teachers' manuals.

**American Optical Company**  
**Buffalo, New York**  
**Booth No. 1**

The American Optical Company, Scientific Instrument Division, manufacturers of Spencer instruments, will have on display the following: new accessories for Spencer Phase Microscope, which utilizes optical path differences of unstained, transparent material to show sharp outline and internal detail at full resolution; a new Spencer Stereoscopic Shop Microscope; a new 2" x 2" slide projector with coated optics and self-centering slide carrier; also, new self-centering slide carriers for current Spencer Delineascopes. In addition, a selection of well-known Spencer instruments will be shown and demonstrated. Messrs. J. J. Host, G. W. Frid, G. E. Guellich, R. W. Schmauder, and a full staff will be in attendance to discuss any optical questions presented.

**Armour and Company**  
**Chicago, Illinois**  
**Booth No. 51**

High molecular weight aliphatic compounds and crystallized proteins of recent development will be displayed by the Chemical Research and Development Department of Armour and Company. Among the high molecular weight aliphatic compounds will be ketones, amidoesters, quaternary ammonium chlorides, tertiary amines, tertiary amine oxides, and a dimeric nitrile. The crystallized proteins will feature bovine plasma albumin and several crystallized enzymes, pepsin, trypsin, chymotrypsin, lysozyme, and ribonuclease. Technical information and possible applications will be available on these and related materials, such as fibrinogen, adenosine triphosphate, bilirubin, and Armour Catalase, technical grade.

**Bausch & Lomb Optical Company**  
**Rochester, New York**  
**Booth Nos. 79, 80, and 81**

The Bausch & Lomb Optical Company booth will be given over primarily to the exhibition and demonstration of four of the latest developments in the field of microscopy. The new series of Bausch & Lomb microscopes with Variable Focus Condenser provides, for the first time, quick, accurate focusing of microscope substage illumination. With the new condenser, the area of the illuminated field is increased and the numerical aperture of the beam decreased by merely racking the condenser down. In a companion demonstration, the new Bausch & Lomb Phase Contrast Microscope Accessories will be shown. You are invited to bring in your own unstained preparations

for your personal examination with phase contrast. Comparative photomicrographs of a wide selection of living material will also be available for study. The B & L Fluorescence Microscope Accessories for tubercle bacilli detection will also be shown. This method is applicable to both smears and tissues stained with auramine. Balcoted Microscope parts will be displayed for your examination.

**Biological Abstracts**  
**Philadelphia, Pennsylvania**  
**Booth No. 7**

A cooperative, nonprofit journal published by biologists for biologists, *Biological Abstracts* is the only abstracting and indexing service in the world that affords an adequate coverage of the literature in all fields of biology. Currently abstracting some 2,700 journals, the coverage is being expanded as rapidly as possible to include the many European, Scandinavian, and Asiatic journals that have not been available to the scientists of this country since the outbreak of the war. *Biological Abstracts* is published both in a complete edition and in 9 low-priced sectional editions especially designed for individual biologists who are interested only in one or more closely related fields. These sectional editions will be on display, and Dr. John E. Flynn, editor-in-chief, and H. I. Anderson, business manager, will be in attendance to welcome visitors and furnish information.

**The Blakiston Company**  
**Philadelphia, Pennsylvania**  
**Booth No. 50**

The Blakiston Company, Philadelphia and Toronto, will display a wide selection of science textbooks representing both the undergraduate and research fields. Among the textbooks visitors should examine are: Emerson, *Basic botany*; Hoff, *Secondary-school science teaching*; Lille, *Histopathologic technic*; Foley-Glathart, *College physics* (4th ed.); Mettler, *History of medicine*; Dethier, *Insect attractants & repellents*; Edwards, *Concise anatomy*; Chester, *Nature & prevention of plant diseases* (2nd ed.). Attendants will be glad to discuss new manuscripts and additional forthcoming books.

**Wm. C. Brown Company**  
**Dubuque, Iowa**  
**Booth No. 139**

This company will have on display all of its latest publications, including laboratory manuals, workbooks, and outlines in the fields of biology, zoology, botany, home economics, physics, chemistry, engineering, and medicine. Complete series of the popular Pictured-Key Nature books will also be available for inspection. Booklets will be available at the booth of this company giving complete information concerning its specialized publishing service.

**Burgess Publishing Company**  
**Minneapolis, Minnesota**  
**Booth No. 105**

This will be an educational book display by one of the few established photo-offset and mimeoprint book publishers in the country. Specialists in the publishing of small-run editions

for college and university courses, Burgess offers the instructor, the department head, or the organizational scientist an opportunity to publish his own text or manual in quantities as small as 100. Burgess books are reproduced by superior quality photo-offset and mimeoprint processes. The type is clean, distinct, and easy to read. Illustrations reproduce sharply and clearly. Full details will be available at the booth, and many Burgess volumes, now adopted by hundreds of colleges and universities throughout the country, will be on display.

**Central Scientific Company**  
Chicago, Illinois  
Booth Nos. 27 and 28

Cenco invites all of those in attendance to visit booths 27 and 28. Here will be shown new apparatus for laboratory workers in physics, chemistry, and biology. The display will include the A.C.-operated Cenco Titration-pH Meter, the Cenco 5" Oscilloscope in connection with the Cenco Electronic Switch and Multiple Input Audio Frequency Amplifier and Permanent Magnet Speaker, new Cenco Dial Resistance Boxes and Decade Condensers, the Cenco "Photometer," Concentrated-Arc Lamps, the Polaroid Polariscope, new Bakelite Boxes that hold 100 microscope slides, Cenco High Vacuum Pumps, and other items. Selective Experiments in Physics which permit the instructor to make a selection of experiments most suitable for his course will also be featured. Members of the Cenco staff will be in attendance to greet friends and to discuss apparatus.

**Chicago Apparatus Company**  
Chicago, Illinois  
Booth No. 69

The Chicago Apparatus Company, manufacturers and distributors of scientific laboratory supplies for educational and research institutions, will exhibit for the Physics Department a new stroboscope, a new electric atom model, and a practical teaching model of the oscillograph; for the chemists, research models of analytical balances, Beckman pH Meters, precision heaters, and the new metal heating mantles of the Glas-Col Company; and for the Biology Department, the chick embryo model as well as the latest model microscopes. You are cordially invited to discuss your problems with either of the three representatives, Messrs. F. D. McCally, John Geisel, and Lee Tennis.

**Thomas Y. Crowell Company**  
New York, New York  
Booth No. 133

The Crowell booth will display publications of both its College Department and its Trade Department. Books published in 1947 will be featured, but all established publications issued previously will also be exhibited. Noteworthy recent books include: *Semimicro qualitative organic analysis*, by Cheronis and Entriken; *Basic college chemistry*, by Babor; *Physical chemistry*, by Hunt; *First year qualitative analysis*, by Likes and Harvey; *Exercises in organic synthesis*, by Sharefkin; *Experiments in science*, by Beeler and Branley; and *Famous men of science*, by Bolton.

**Denoyer-Geppert Company**  
Chicago, Illinois  
Booth Nos. 131 and 132

Denoyer-Geppert Company will have a display of anatomical and biological models, demonstration mounts, skeletons, corrosion specimens, Kodachrome slides, and charts for anatomy and biology.

**Eastman Kodak Company**  
Rochester, New York  
Booth No. 55

The Eastman Kodak Research Laboratories are engaged in an extensive research program on photographic materials for nuclear research work and also for the making of autoradiographs. The central features of the display will be photographs and transparencies showing results obtained with special photographic plates designated as Kodak Nuclear Track Plates. Typical examples of original slides will be available for examination under a microscope. Also included are photographs and transparencies of other applications of photography in science, such as photomicrography, electron microscopy, and photography in astronomy.

**Edmund Salvage Company**  
Collingswood, New Jersey  
Booth Nos. 35 and 36

The Edmund Salvage Company, which has specialized in retailing war-surplus optical items, will display a great variety of lenses and prisms. In addition, there will be telescopes, periscopes, and gun sights through which visitors may look. War-surplus bubble sextants, both new and used, will be on display along with astro compasses and drift meters. Beautiful desk name plates made from tank prisms will interest every scientific-minded person who visits the booths. Variable density polarizing filters will be available so that you may rotate them. You have probably read and heard a lot about the Navy's infrared snooperscope units. These will be on display at our exhibit so that you will be able to see for yourself how they work.

**Gamma Scientific Company**  
New York, New York  
Booth No. 43

The exhibit of the Gamma Scientific Company will feature the domestically manufactured products of its affiliate, Gamma Instrument Company, and also a number of recently imported items. Among the former will be the latest model of the well-known Microflex Photomicrographic Mirror Reflex camera, featuring all metal construction. A wide number of accessories for this camera such as the new Gamma Dura-Color Filter Set, illuminating devices for low-power photography in transmitted light and for macrophotography in reflected light will also be shown. Also on display will be the newly introduced photomicrographic desk, a complete line of Gamma pH meters for routine and research work, the Gamma Chambers' Micro-Manipulator and accessories. Among the imported items which will be demonstrated will be a Refractometer, a Polarimeter, and Precision Balances with air damping.

**Garden City Engineering Specialty Company**  
Chicago, Illinois  
Booth No. 46A

The Serdex Indicating Hygrometer and Microhygrograph (relative humidity), Dillon Bimetal Industrial Dial Thermometers, ASTM Thermometers, API Hydrometers, a complete line of precision, standard, and technical grade mercury in glass thermometers, Industrial Thermometers, Dial and Recording Thermometers, and Dial and Recording Pressure Gauges will be on display. Messrs. John C. Hayes, E. A. Johnson, and C. C. Hurst will be in attendance.

**General Biological Supply House, Inc.**  
Chicago, Illinois  
Booth Nos. 57 and 58

The Turtox booths will feature cultures of Protozoa, molds, and bacteria displayed by microprojection, and living marine specimens in tanks of sea water. A large collection of Kodachrome color transparencies will be on display and will be projected continuously. In addition, the entire series of more than 300 Turtox C-R Biological Charts and many recently published biological drawings in the series of Key Cards and Quiz Sheets will be available for inspection.

**Gradwohl School of Laboratory Technique**  
St. Louis, Missouri  
Booth Nos. 67 and 68

The display will be, as usual, in charge of Mrs. A. G. Erskine. Visitors will be welcome and will have every opportunity to discuss their problems. The display will consist of a photographic representation of many laboratory activities carried on in this school. Full literature will be available. Registrants are requested to leave their names and addresses for further particulars.

**The Graf-Apsco Company**  
Chicago, Illinois  
Booth No. 40

The exhibit of the Graf-Apsco Company is featuring rebuilt microscopes and microtomes and related supplies such as micro slides, cover glasses, magnifiers, etc. A complete line of dissecting and surgical instruments will also be displayed.

**Harper & Brothers**  
New York, New York  
Booth No. 64

Harper & Brothers will have on display all of their current college textbooks in the physical and biological sciences, mathematics, and psychology, as well as a number of medical books published by Paul B. Hoeber, Inc. (the Medical Book Department of Harper & Brothers) and many general trade books of interest to scientists. Particular attention is called to the new *Personality: a biosocial approach to origins and structures*, published in August, and *The essentials of plant biology*, by Frank D. Kern. The latter is a new textbook for the one-semester botany course, which has come from the press just in time to be included in the display.

**W. A. Hammond Drierite Company**  
Xenia, Ohio  
Booth No. 12

Industrial, laboratory, and home applications of Drierite, in its Regular, Indicating, Du-Cal, and Moulded forms, will be displayed. A miniature two-tower drying unit, compartment desiccators for home and industrial use, new laboratory gas dryer, and a new, small, compressed air line dryer containing throw-away cartridges will be featured. Many other useful applications of this product of science will be described or portrayed. Company personnel will be present to discuss the technical aspects of Drierite.

**Instrument Development Laboratories**  
Chicago, Illinois  
Booth No. 92

Instruments for the measurement of radioactivity will be the theme of Instrument Development Laboratories' exhibit. Pocket-size, portable and semiportable instruments for qualitative and quantitative determination of Alpha, Beta, and Gamma radiation will be in operation. Instrument Development Laboratories' new countomatic scaling unit will be on display, demonstrating flexibility of this automatic machine. The new Geiger counter, fountain pen dosage meters, and other radioactivity monitors for research, health monitoring, and geological surveying will also be shown. Engineers will be at the booth daily to suggest solutions to your instrumentation problems.

**Jarrel-Ash Company**  
Boston, Massachusetts  
Booth No. 71

Jarrel-Ash Company will feature an inexpensive spectrograph, source unit, and microphotometer with ample dispersion, resolution, and sensitivity for all spectrochemical analysis of biological or clinical materials. The equipment is suitable also for general spectrochemical work and for instruction in special methods in chemical analysis. Specialized optical instruments will include a Bellingham and Stanley Glass Circle Polarimeter reading to  $.01^\circ$  and a less expensive Bellingham and Stanley instrument reading to  $.05^\circ$ ; a Bellingham and Stanley Standard Abbe Refractometer with glass scale read by transmitted light; a Projection Refractometer for the food industry; a Hilger-Mueller Double Monochromator  $f/4.0$ , 1,850A. to 40,000A., with accurate wave length scale. Microscopic equipment displayed will include metallurgical, polarizing, research, and stereoscopic microscopes available for immediate delivery. There will also be a Precision Rotary Microtome, a photomicrographic camera, the new high-intensity Zircronarc for work at high magnification, and fluorescent lamps for low-power work.

**W. H. Kessel & Company**  
Chicago, Illinois  
Booth No. 18

On display for demonstration will be microscopes of various types and accessories, photomicrographic cameras, light sources for photomicrography, photometers for exposure deter-

minations, refractometers, pH meters, photoelectric and duoboscq colorimeters, as well as laboratory instruments.

**E. Leitz, Inc.**  
**New York, New York**  
**Booth No. 14**

Leitz will show their Universal Microscope and Photomicrographic Apparatus "Panphot," which features a distinct departure from the conventional type of photomicrographic apparatus. The first postwar model of the Leitz Research Microscope, "Ortholux," will be displayed for the first time. This instrument is equipped with a built-in light source and can be used not only for transmitted but also for reflected light. Standard monocular as well as binocular medical microscopes will be on display, as well as the well-known Photoelectric Colorimeter. Another feature will be the Leica Camera and its accessories for gross photography, photomicrography, and copying in both black and white and color.

**Linguaphone Institute**  
**New York, New York**  
**Booth No. 4**

Linguaphone presents the study of foreign languages in its most scientific form—coordination-association of the sight of an object with the sound of the word it represents. A Linguaphone course comprises a series of synchronized phonograph records and books. While listening to the lesson on the record the student follows each word in the illustrated text, training eye and ear together. These lessons, graded in speed and subject matter, are recorded by both male and female voices. Supplementary books give full grammatical instruction. The records provide pronunciation and intonation. The result is fluency in thinking in the language in an amazingly short time. Linguaphone courses are available in 29 languages. The Linguaphone electric phonograph, fitted with earphones to ensure uninterrupted study at any time, will be displayed, as will the Classophone record-filing system, which can be installed in any bookcase or cabinet and which is the simplest, most practical method for protecting and classifying phonograph records.

**McGraw-Hill Book Company, Inc.**  
**New York, New York**  
**Booth Nos. 52 and 53**

The McGraw-Hill Book Company invites you to visit booths 52 and 53, where you will find recent and standard texts and reference books in agriculture, botany, chemistry, forestry, geology, health education, physics, psychology, and zoology. We urge that you check these authoritative, timely volumes and place your order for examination copies of those titles which are of interest in your particular program.

**The Macmillan Company**  
**New York, New York**  
**Booth Nos. 2 and 3**

The book exhibit sponsored by the Macmillan Company will consist of approximately 800 titles, including publications of the Cambridge University Press. In addition to undergraduate and graduate textbooks and reference works, there will be a large number of technical and scientific books of interest to

the general reader. Books in the fields of various hobbies and avocations—photography, gardening, radio, outdoor life, and others—will be represented along with books of special interest to young readers. The major classifications are Agriculture, the Biological Sciences, Chemistry, Engineering, History and Philosophy of Science, Home Economics, Mathematics, Medical Science, and Physics. Representatives of the Macmillan Company at this exhibit will be Mr. Tyler Buchenau, science editor; Mr. C. J. Hylander, visual aids editor; Mr. Paul A. Carlson, Mr. Robert B. Davis, and Mr. Joseph G. Sutton, Jr.

**G. & C. Merriam Company**  
**Springfield, Massachusetts**  
**Booth No. 106**

The G. & C. Merriam Company exhibit will consist of a sample display of the various publications of the company, which are as follows: Webster's *New international dictionary* (2nd ed.), Webster's *Collegiate dictionary* (5th ed.), Webster's *Dictionary of synonyms*, and Webster's *Biographical dictionary*. In addition, there will be displayed for distribution copies of various pamphlet material dealing with instruction in, and the use of, the various books mentioned above. Souvenirs will be provided.

**The C. V. Mosby Company**  
**St. Louis, Missouri**  
**Booth No. 24**

Visitors to the International Science Exhibition are cordially invited to examine the books on display at the C. V. Mosby Company booth. Among the titles on display will be the following new releases: Rogick, *General zoology laboratory manual*; Bellafiore, *Pharmaceutical arithmetic*; Novak-Meyer, *Bacteriology laboratory directions for pharmacy students*; Schaub-Foley, *Diagnostic bacteriology*; Potter, *Textbook of zoology*; Atwood, *A concise comparative anatomy*; Cureton, *Physical fitness, appraisal and guidance*; Turner, *School health and health education*; and Iddins, *Workbook for physical education*. The complete line of Mosby texts and reference books will also be exhibited.

**National Geographic Society**  
**Washington, D. C.**  
**Booth Nos. 82 and 83**

The exhibit will show one of the battery of huge telescope cameras focused on the eclipse of the sun by the Army Air Forces-National Geographic Society Solar Eclipse Expedition at Bocaiuva, Brazil, May 20; also, samples of rock from submarine mountains in the Atlantic Ocean, dredged up last summer by the Mid-Atlantic Ridge Expedition sponsored by the Society, Columbia University, and the Woods Hole Oceanographic Institution. Photographs illustrating interesting features of the Society's recent scientific projects will form a fascinating backdrop for the exhibit.

**Philosophical Library**  
**New York, New York**  
**Booth No. 8**

Visitors to the Exhibition are cordially invited to visit the booth of the Philosophical Library. Some of the books which will be featured are: *The selected writing of Benjamin Rush*, by

Dagobert D. Runes (editor); *Existentialism*, by Jean-Paul Sartre; *How our minds work*, by C. E. M. Joad; *Hindu philosophy*, by Theos Bernard; *The new dictionary of psychology*, by Philip Lawrence Harriman; *Unusual words and how they came about*, by Edwin Radford; *Studies in genius*, by Walter G. Bowerman; *Old Korea*, by Elizabeth Keith; *Physics of the 20th century*, by Pascual Jordan; *Science since 1500*, by H. T. Pledge; *Charles Darwin and the voyage of the Beagle*, edited by Lady Nora Barlow; *The tyranny of time*, by Chalinder Allen; *The dictionary of philosophy*, edited by Dagobert D. Runes; *Essays in science and philosophy*, by Alfred North Whitehead; *Spinoza portrait of a spiritual hero*, by Rudolf Kayser; *The great beyond*, by Maurice Maeterlinck; *The creative mind*, by Henri Bergson; *Logic for the millions*, by A. E. Mander; and *Narcotics and drug addiction*, by Erich Hesse, M.D.

**Alvin F. Polan**  
Baltimore, Maryland  
Booth No. 25

The specimens of plants, insects, and animal tissue in this exhibition are preserved by a quick process which fixes the actual color and physical appearances of the specimens indefinitely. The specimens that are exposed to the air will not decay or disintegrate and many retain their natural odor. There are no signs of the preservative treatment on the subject matter after processing the specimens.

**Prentice-Hall, Inc.**  
New York, New York  
Booth No. 42

Prentice-Hall, which will be represented by Associate Editors Frank Bitner and Warren Blaisdell, will feature a display of over 100 College and Industrial Department books in the fields of chemistry, physics, mathematics, engineering, geology, and geography, psychology, and statistics. New books which will be available will include *Advanced calculus*, by David V. Widder; *College algebra*, by Moses Richardson; and *Mental hygiene*, by Herbert A. Carroll. By arrangement with the Editorial Department page proofs on important forthcoming texts, including *Organic chemistry*, by Ray Q. Brewster, will be available for inspection.

**Radiation Counter Laboratories, Inc.**  
Chicago, Illinois  
Booth No. 66

Instruments for measurement of radioactivity will be shown

**W. B. Saunders Company**  
Philadelphia, Pennsylvania  
Booth Nos. 72 and 73

The W. B. Saunders Company cordially invites visitors to the Exhibition to stop in at booths 72 and 73, where a fine selection of our publications will be displayed. Our representatives will be glad to show you the many new books and new editions which have been published in 1947. Botanists will be particularly interested in the new (2nd) edition of Weatherwax' *Plant biology*. The brand new *General botany laboratory*

*book*, by Dr. Edward M. Palmquist and Dr. Loren C. Petry, can be used to very good advantage with Dr. Weatherwax' book or with any other standard text. Another new book of interest to all is Dr. Ernest Gardner's *Fundamentals of neurology*. The 1947 editions of Ranson-Clark's *Anatomy of the nervous system* and of Rice's *Textbook of bacteriology* may also be seen. The new (21st) edition of *American illustrated medical dictionary*, containing over 2,000 new words, will be of interest to all scientists. The representatives present during the Exhibition will be Messrs. O. G. Enstrom, James B. Finn, C. O. Wheeler, and E. R. Zieber.

**Schering Corporation**  
Bloomfield, New Jersey  
Booth No. 6

The Schering exhibit will feature the newly discovered principle of sulfonamide therapy which practically eliminates any danger of toxicity from "sulfa" drugs. The result of laboratory and clinical researches supported by Schering Corporation, of Bloomfield and Union, New Jersey, this discovery is based on increased solubility through the use of a mixture of three sulfonamides, resulting in increased effectiveness with decreased renal toxicity and crystalluria. The concentration or solubility of one sulfonamide in a solution does not affect, and is not affected by, the amount of another sulfonamide in the same solution. This holds true if there are three sulfonamides present. Thus, only one-third of the usual dosage of each sulfonamide need be given to obtain a potentiated therapeutic effect. The probability of crystalluria when full dosage of any one drug is given is also nearly eliminated. Combinations have proven more effective, in shorter periods of time, with smaller changes. Schering's Combisul tablets or liquid are mixtures of sulfadiazine, sulfathiazole, and sulfamerazine in equal parts. Lehr substantiated these facts through original work, purposely avoiding alkalization, and found that crystalluria still does not occur. Flippen declared that alkalization may destroy some of the sulfonamides' effectiveness.

**Tracerlab, Inc.**  
Boston, Massachusetts  
Booth No. 19

The Tracerlab exhibit features the Autoscaler, a fully automatic radioactivity counting instrument. The output circuit of the Autoscaler is coupled to a large neon bulb counting indicator to permit visitors to watch the progress of demonstration radioassays. In addition, the exhibit will include the "64" scaler and radioactivity health survey and monitoring instruments together with a full line of accessories for radioactivity work including G-M tubes, sample changers, and specialized chemical equipment.

Copies of *Tracerlog*, a technical monthly publication dealing with all phases of radioactivity, and bulletins describing equipment and services of Tracerlab, Inc., will be available for free distribution.

Representing the company at the exhibit will be Mr. Dana W. Atchley, Jr., sales manager; Mr. Alan P. Schreiber, sales engineer; and Mr. Walton C. Wickett, Western representative.



**The Technicon Company**  
New York, New York  
Booth Nos. 48 and 49

The Technicon booth will feature the new Technicon Automatic Fraction Collector for Chromatographic Analysis. This is a machine which collects specific quantities of effluent fluid from the chromatographic column. The machine will automatically distribute as much as 4,000 cc. of fluid in as many as 200 test tubes, automatically placing a set and rigidly controlled amount in each tube. The automatic tissue-processing machine, the Autotechnicon, as well as the Lab-Aid slide filing cabinets, and the Scopicon, a microscopic projector, will be shown. The Technicon Automatic Pipette Washer and the Technicon Constant Temperature Water Bath for spreading paraffin sections will also be exhibited.

**University Presses**  
Chicago, Illinois  
Booth No. 97

The University Presses, leaders in the field of nonfiction, each year publish a large number of important titles. Many of these gain lasting recognition as reference books and college texts. Many also enjoy wide popularity as trade publications. All are reaching a constantly increasing audience. The exhibiting of books from University Presses is an outgrowth of the Association of American University Presses. Each press represented is a separate publishing company devoted to the production of important technical and scholarly works which might otherwise go unpublished, as well as general books of vital interest to all Americans. Because of their common goals, and because some of them are too small to sponsor exhibits alone, these presses have combined to present their books in a single impressive display.

**W. M. Welch Manufacturing Company**  
Chicago, Illinois  
Booth Nos. 102, 103, and 104

A variety of laboratory equipment and supplies will be shown. Of interest to physicists will be vacuum pumps and gauges, voltmeters, ammeters, wattmeters, ohmmeters, and A.C. and D.C. instruments in three accuracy ranges; student and demonstration equipment for mechanics, heat, electricity, sound, and light; balances, both analytical and stainless steel; chart of electromagnetic wave gamut; aeronautics charts; wind tunnel; replica gratings; and spectrometer. Equipment for use in the field of chemistry will include glassware, hardware, rubberware, straight-jacket condenser, balances, the 1947 edition of the Hubbard Periodic Chart, and Chart of Organic Chemistry. The biological sciences will be represented by a display of living and preserved specimens; microscopes; prepared slides; charts of physiology, health, hygiene, safety, and first aid; and botanical and zoological charts.

**John Wiley & Sons, Inc.**  
Philadelphia, Pennsylvania  
Booth No. 95

John Wiley & Sons, Inc., New York scientific and technical publishers, will utilize their centrally-located booth for displaying a comprehensive collection of late and standard books in various fields of pure and applied science. While stress will be laid on 1947 publications, Wiley plans to show a full range of titles which have earned recognition as outstanding texts, manuals, handbooks, or other works of reference. Many of these will be found in new, revised editions. Fields of interest covered will include aerodynamics, agriculture, anthropology, astronomy, the biological sciences, chemistry, education, the earth sciences, mathematics, public health, physics, psychology, social and political science, and business.

