

# News and Notes

## The International Commission of Optics

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The second general meeting of the International Commission of Optics of the International Union of Pure and Applied Physics was held in London, July 17-21. Approximately 30 official representatives from Belgium, France, Great Britain, Holland, Italy, Spain, Sweden, Switzerland, and the U. S. attended. The U. S. delegates were I. C. Gardner, National Bureau of Standards, R. Kingslake, Eastman Kodak Company, and S. S. Ballard. No delegates were present from Czechoslovakia or Poland, although these countries have participated in former meetings.

Some of the sessions were diverted to the presentation of progress reports in various technical fields of optics. These reports, prepared by the national committees most concerned, served the useful purpose of bringing interested persons up to date on the progress made in optics since the beginning of World War II. This worth-while procedure is now substantially completed, and it is not anticipated that the commission will continue this particular activity to any great extent.

The future action of the commission will follow internationally important lines of standardization in optics and will foster colloquies on limited technical subjects. A recommendation for a set of sign conventions and symbols for geometrical optics will be prepared in the hope

that it may find acceptance in various countries. A revised classification for optics, either under the universal decimal system or some other scheme, will be developed. A recommended procedure for the standardization of experimental methods employed in physiological optics will be circulated among the various national committees with a view to facilitating the comparison of data obtained in the laboratories of different countries. An effort will be made to develop a better method of specifying the quality of optical glass.

The need for an all-European optical journal that would do for European optics what the *Journal of the Optical Society of America* does so successfully for American optics was discussed. Much interest was shown in this proposal, despite the realization of the practical difficulties involved in launching such a journal.

Officers elected to administer the affairs of the commission until its next general congress were: president, A. C. S. van Heel, of the Technical University of Delft, Holland; vice presidents, L. C. Martin, of Imperial College, London; J. M. Otero, of the Optical Institute Daza de Valdes, of Madrid, Spain; and S. S. Ballard of Tufts College, Medford, Massachusetts. P. Fleury and A. Arnulf, both of the Institut d'Optique of Paris, will continue to serve as secretary and treasurer, respectively.

## About People

**Callaway Brown**, an authority on luminescent and electronic materials, has been named research physical chemist at Armour Research Foundation of Illinois Institute of Technology. Dr. Brown has been a research associate with General Electric Company, Schenectady, N. Y., since 1945.

**Harry J. Clausen**, formerly of the School of Medicine, the University of Arkansas, has joined the Department of Anatomy at the University of South Dakota, School of Medicine, as associate professor.

**John E. Funnell**, formerly research ceramist with Corning Glass Works, has been appointed ceramics engineer and economic geologist for Southwest Research Institute, San Antonio, Texas. Dr. Funnell will

take part in the institute's program of research in industrial minerals.

**R. F. Rinehart**, former executive secretary of the Research and Development Board, will resume his position as professor of mathematics at the Case Institute of Technology.

**Edward J. Schwoegler**, former technical director of Nox-Rust Chemical Corp., Chicago, has joined the staff of Armour Research Foundation of Illinois Institute of Technology as a research organic chemist.

Indiana University's Department of Bacteriology has appointed **J. L. Stokes** as associate professor, and **Emilio Weiss** and **Eugene D. Weinberg**, formerly of the Department of Bacteriology and Parasitology, University of Chicago, as assistant

professor and instructor, respectively. Dr. Stokes is completing three years' work as research associate at the Hopkins Marine Station, Pacific Grove, Calif.

**John A. Waters, Jr.**, Captain (USN), has been appointed director of the Division of Security of the U. S. Atomic Energy Commission. Captain Waters succeeds **John E. Gingrich**, Rear Admiral (USN), who resigned in May, 1949. **Francis Hammack**, formerly chief of the Personnel Security Branch, has been acting director of the division since that time.

**Emil Witschi**, of the Zoology Department, State University of Iowa, has been elected to honorary membership in the Société Zoologique de France.

## Visitors

Speakers at the 8th annual Pittsburgh Conference on X-Ray and Electron Diffraction, to be held at the Mellon Institute in Pittsburgh, November 2-3, include **O. Kratky**, University of Graz, Austria, **A. Guinier**, **G. Fournet**, and **D. Dervichian**, Conservatoire National des Arts et Métiers, and **Yvette Cauchois**, Laboratoire de Chimie Physique, Université de Paris, Paris, France.

Recent visitors at the National Bureau of Standards were: **Harald Bergstrom**, professor of applied mathematics, Chalmers University of Technology, Gothenburg, Sweden; **Leslie Fox**, Mathematics Division, National Physical Laboratory, Teddington, England; **Genji Furusho**, chief electrical engineer, Engineering Section, Bureau of Industry, Tokyo; **Shigenori Hamada**, professor of electronics at Tohoku University in Sendai, Japan; **Ichiro Iitaka**, president of the Casting Institute of Japan, and professor of metallurgy at Waseda University; **Clement J. Tranter**, associate professor of mathematics, Military College of Science, Shrivenham, England; **B. K. Vaidya**, assistant director, Ahmedabad Textile Industry's Research Association, Ahmedabad, India; and **Shikao Ikehara**, head, Department of Mathematics, Tokyo Institute of Technology.

The National Bureau of Standards was host last month to **S. Luthander**, professor of aeronautics, Division of Aeronautics, Royal Institute of Technology, Stockholm, and **Luis A. Asorio Struve**, Faculty of Engineering, Universidad Central, Caracas, Venezuela.

## Grants and Awards

**Research Corporation** has allocated nearly \$250,000 in the form of 83 grants-in-aid of research to colleges, universities, and scientific institutions in 24 states and the District of Columbia. The awards, which include both Research Corporation General Grants and Frederick Gardner Cottrell Grants to smaller institutions, bring to a total of about \$550,000 the funds granted since

November 1, 1949. Of the 64 Frederick Gardner Cottrell grants, 31 are renewals on projects already being supported by foundation funds, and 33 are new grants. Nineteen General Grants were made, including new grants and renewals. The new grants are: University of Arizona—**Edward J. Meyer**, equilibria of artificial mineral phases in silicate melts; University of Arkansas—**E. S. Amis**, study of dielectric constant and temperature dependence of equivalent conductance of electrolytes at infinite dilutions; Occidental College—**Frank L. Lambert**, factors influencing the polarity of halogens in organic chemistry; University of San Francisco—**Arthur Furst**, the chemistry of organic phosphorus compounds; University of Southern California—**Donald W. Visser**, synthesis and biological activity of purine and pyrimidine nucleoside; Whittier College—**Robert P. Kraft**, light curves of typical Cepheids in various colors; George Washington University—**William F. Sager**, synthesis of ketotriazines and studies on reactions of iodine radicals; Howard University—**R. Percy Barnes**, study of the structure of isoxalines, isoxaxoles, alpha- and beta-diketones by means of infrared spectroscopy; University of Idaho—**James F. Murphy**, electrical behavior of simple inorganic salts in nonaqueous solutions; De Pauw University—**Howard Burkett**, reactions of 1,1,1-trichloro-3-nitropropanol-2; Indiana University—**R. W. Thompson**, the high energy nuclear interactions of cosmic rays; Wabash College—**Clayton M. Ziemann**, dielectric constants of gases at wavelengths of approximately 3 centimeters; State University of Iowa—**Charles Tanford**, ionization of phenolic hydroxyl groups in proteins; Amherst College—**George W. Kidder**, a study of metabolic inhibitors as chemotherapeutic agents in the control of cancer and viral invasions; Tufts College—**Fred L. Greenwood**, a quantitative study of the ozonization reaction; University of Massachusetts—**Gilbert L. Woodside**, chemotherapeutic studies on cancer in mice; Kalamazoo College—**Laurence E. Strong**, small ion-protein interactions as determined by electrical conductivity; University of Michigan—**Charles L. Rulfs**, oxidation levels of

rhodium in aqueous media; Carleton College—**John E. Baer**, some reactions of 2-imidazolinethione; Missouri School of Mines and Metallurgy—**M. E. Straumanis**, an investigation by x-ray methods of the expansion coefficients of compounds showing metallic properties; Princeton University—**E. Newton Harvey**, biochemical studies of luminous substances from the crustacean, *Cypridina*; Canisius College—**Robert H. Schuler**, radioiodine as a free radical detector for liquid phase process; Columbia University—**Benjamin P. Dailey**, application of microwave spectroscopy to chemical problems; Columbia University—**Harvey Fletcher**, research in musical acoustics; Pratt Institute—**George B. Diamond**, the electrolytic reduction of some substituted naphthalenes; University of Rochester—**Seymour L. Friess**, the reaction of organic peracids with ketones and with polysubstituted aromatic systems; University of North Carolina—**Oscar K. Rice**, photolysis of azoethane; Antioch College—**I. Moyer Hunsberger**, use of infrared spectra in determining the degree of bond fixation in polycyclic systems; Kenyon College—**Eric S. Graham**, the rearrangement of alpha halo ketones under the influence of silver nitrate; University of Cincinnati—**Alvin A. Kosak**, the chemistry of hydroxythiophene derivatives; Bucknell University—**Charles A. Russell**, a new instrument for measuring magnetic susceptibilities; Pennsylvania State College—**Ray Pepinsky**, crystal structure of the ergot alkaloids; Pennsylvania State College—**James J. Fritz**, an investigation of the magnetic and thermodynamic properties of paramagnetic salts below 4 degrees Kelvin; University of Pennsylvania—**Melvin C. Molstad**, pressure drop in vertical tubes in the transport of solids by gases; North Texas State College—**Price Truitt**, study of cleavage of 1,1-di-(2-thienyl) alkanes with Raney nickel both with and without added hydrogen; The Rice Institute—**William D. Walker, Jr.**, a cloud chamber study of penetrating showers; Southern Methodist University—**Ogden Baine** and **Harold Jeskey**, study of the Kolbe-Schmitt reaction; Virginia Polytechnic Institute—**Dan H. Pletta**, analysis of skewed rigid

frame bridges; Saint Martin's College—*F. E. Horan*, ultrasonic investigations of solutions of starches, starch fractions, and starch derivatives; State College of Washington—*Carl J. Nyman*, electrochemical reduction of quaternary ammonium salts at mercury cathodes; and Beloit College—*F. J. Mathews*, further cyclization studies in the benzoquinoline series.

Laurent Schwartz, University of Nancy, France, and Atle Selberg, a permanent member of the Institute for Advanced Study, Princeton, N. J., were awarded **Fields Medals** at the opening session of the International Congress of Mathematicians, August 30, at Harvard University. The Fields Medals are named for J. C. Fields, of the University of Toronto, who was president of the 1924 congress held in Toronto, Ontario.

## Fellowships

The American Society for the Study of Sterility offers an annual award of \$1,000, known as the **Ortho Award**, for an outstanding contribution to the subject of infertility and sterility. Competition is open to those in clinical practice as well as persons whose work is restricted to research in the basic sciences. Essays submitted for the 1951 contest must be received not later than *March 1, 1951*. The prize essay will appear on the program of the 1951 meeting of the society. For particulars, address the American Society for the Study of Sterility, 20 Magnolia Terrace, Springfield, Mass.

**E. I. du Pont de Nemours & Co.** is offering 76 postgraduate and post-doctoral fellowships in chemistry, physics, metallurgy, and engineering, for the academic year 1950-51. The selection of candidates for the fellowships and the choice of problems on which they are to work will be made by the 47 universities that receive awards. The stipend for the 70 postgraduate fellowships is \$1,200 for a single person and \$1,800 for a married person. The six post-doctoral fellowships, for work in chemistry, provide \$3,000 to the recipient. The latter fellowships are

designed to serve as an incentive to individuals who wish to enter industrial research work as well as those who prefer to remain in academic work. Further information about the program can be obtained from the Du Pont Company, Wilmington 98, Del.

**The Marine Biological Laboratory**, Woods Hole, Mass., through a grant from the Lalor Foundation, is offering a limited number of post-doctoral fellowships in the fields of biochemistry, biophysics, and physiological chemistry. The fellowships are designed primarily for young scientists desiring to work the entire summer on investigations for which the opportunities provided by the laboratory are particularly appropriate. The stipend is intended to cover laboratory fees, travel, and living expenses at Woods Hole. Applications should be received by *December 31*. Blanks and further information may be secured from the director of the laboratory.

## Colleges and Universities

A virus laboratory unit has been established in the Department of Bacteriology, **University of Illinois College of Medicine**, to train virologists and to maintain a full program of research. Several investigations already have been undertaken, with the support of the U. S. Public Health Service, the university's Graduate College, and Eli Lilly and Company, Indianapolis. Under the direction of John E. Kempf, research is now being conducted, using the electron microscope, on the virus etiology of certain skin diseases.

**Ohio State University** will establish an Institute of Genetics to coordinate current research programs in genetics and to foster new studies in several departments and colleges of the university. It will also coordinate instructional programs at both the undergraduate and graduate levels. Chairman of the governing body of the institute will be D. C. Rife, of the Department of Zoology and Entomology.

Richard S. Crutchfield will spend a second year as a visiting professor

in the Department of Psychology of the **University of California at Berkeley**. W. C. H. Prentice will continue as acting chairman of the Department of Psychology at Swarthmore College in Dr. Crutchfield's absence. Wolfgang Köhler will spend the first semester on leave from Swarthmore as visiting professor at the University of Chicago.

An Institute of Human Biology has been organized at the **University of Michigan** to direct the operations of the Heredity Clinic, the Laboratory of Vertebrate Biology, and related projects. Lee R. Dice, former director of the Laboratory of Vertebrate Biology, is the director of the new institute.

## Industrial Laboratories

**General Biochemicals** has published its August catalogue listing 224 special products for investigational use in the fields of biology, microbiology, bacteriology, biochemistry, and nutrition. Types of products included are amino acids, carbohydrates, nucleoproteins, purines, pyrimidines, enzymes, microbiological and bacteriological media, complete biological test diets, various test diet ingredients, and miscellaneous research biochemicals. Copies of the catalogue are available on request to General Biochemicals, Inc., Laboratory Park, Chagrin Falls, Ohio.

**Sharp & Dohme** has entered into a contract with the Armed Services Medical Procurement Agency to construct additional blood plasma processing facilities at West Point, Pa. Sharp & Dohme will build the structure required, and the Army will provide the equipment for the lyophilization process, which makes it possible to use plasma stored for as long as 5 years.

**Kodak Limited**, London subsidiary of Eastman Kodak Company, has appointed Douglas A. Spencer as a deputy managing director. Dr. Spencer, a specialist in photographic consulting work, has been technical advisor to the chairman of the board of directors since 1945.

**The Will Corporation**, distributors of laboratory equipment and supplies, has acquired its fifth division with the purchase of the business of E. J. Callahan & Co., of Baltimore, and will operate it under the name of Will Corporation of Maryland. Will, founded in 1919, also operates office-warehouses in Rochester, New York City, Buffalo (the Buffalo Apparatus Corp.), and Atlanta (the Southern Scientific Company). The Baltimore division will serve Maryland, Delaware, and the District of Columbia.

The 1950 edition of *Laboratory Apparatus and Reagents* has just been published by the **Arthur H. Thomas Company**. It lists 15,342 items of apparatus, with 5,401 illustrations, and 2,570 reagent items, in 6,289 types of packages, all primarily for use in chemistry and biology laboratories. A comprehensive index of 62 pages is included. Many complete assemblies for specific tests are listed, particularly for use in the field of microchemistry; variations to suit individual requirements are also available. Information about the catalogue may be obtained from Arthur H. Thomas Company, 230 South Seventh Street, Philadelphia 5.

## Meetings

**Progress and New Developments in Antibiotics** will be the subject of a lecture seminar to be held this fall in the U. S. Department of Agriculture Administration Building, Washington, D. C., under the sponsorship of the USDA Graduate School. The course will be directed by George W. Irving, Jr., assistant chief, and Thomas D. Fontaine, head, Biologically Active Chemical Compounds Division, Bureau of Agricultural and Industrial Chemistry, USDA. The registration fee is \$18. Classes will meet from 6:00 to 8:00 P.M. in the USDA Administration Building, 14th and Independence Avenue, S.W., Washington, D. C. Dates and lecturers are as follows:

Sept. 25—Monroe J. Romansky, George Washington University Medical School

Oct. 2—Kenneth B. Raper, Northern Regional Research Laboratory, USDA

Oct. 9—Loren M. Long, Parke, Davis & Company

Oct. 16—Robert D. Coghill, director of research, Abbott Laboratories

Oct. 23—Gladys L. Hobby, Charles Pfizer & Company

Oct. 30—B. M. Duggar, Lederle Laboratories Division, American Cyanamid Company

Nov. 6—(Speaker to be announced)

Nov. 13—Thomas D. Fontaine and George W. Irving, Jr.

Nov. 20—Harry Eagle, Microbiological Institute, National Institutes of Health

Nov. 27—Henry Welch, Division of Antibiotics, Food and Drug Administration

Dec. 4—H. R. Bird, Bureau of Animal Industry, USDA

Dec. 11—John R. Matchett, Bureau of Agricultural and Industrial Chemistry, USDA

Dec. 18—A. F. Langlykke, director of research, E. R. Squibb & Sons

Jan. 8—Joseph E. Smadel, Department of Virus and Rickettsial Diseases, Army Medical Center

Jan. 15—Selman A. Waksman, Rutgers University

Further information may be obtained from Harold F. Eisele, Assistant Director, USDA Graduate School, Washington 25, D. C.

The annual field meeting of the **New England Intercollegiate Field Geologists** will be held October 14–15, in the Bangor, Maine, region, under direction of Joseph Trefethen, University of Maine. For further information write Lloyd W. Fisher, 41 Central Avenue, Lewiston, Maine.

**The 32nd National Metal Congress and Exposition** will be held in Chicago, October 23–27. Sponsored by the American Society for Metals, American Welding Society, Metals Institute Division, American Institute of Mining and Metallurgical Engineers, and Society for Non-Destructive Testing, the congress will bring together the metal-working industry's knowledge of materials, processes, and equipment, through demonstration, conference, forum, lecture, and clinic, for evaluation on the basis of its most effective use with materials, plants, and equipment. Approximately 350 firms engaged in the production of metals, the treatment of metals, their fabrication, or in rendering services to all these, will exhibit their products, equipment, or services in Chicago's International Amphitheatre. Spe-

cial events will be the American Society for Metals Business Forum, the A.S.M. Sales Clinic, industrial motion pictures, and technical sessions.

Final dates for the **Third Annual Joint Conference on Electronic Instrumentation in Nucleonics and Medicine** of the American Institute of Electrical Engineers and the Institute of Radio Engineers have been set as October 23–25. Location of this meeting, which will feature technical papers and discussions on the various problems in instrumentation for the vital fields of nuclear and medical science, is the Park Sheraton Hotel, New York City.

A Conference on **What Is the Scientific Method?** will be held at Roosevelt College in Chicago, October 21–22. The conference, sponsored by the college in cooperation with the Philosophy of Science Association, will investigate the experimental techniques responsible for the rapid gains of science and methods by which they may be used to stimulate social progress. Sessions of the conference will be led by Sebastian Littauer, chairman of the Department of Mathematics at Columbia University; Nicholas Rashevsky, chairman of the Committee on Mathematical Biology at the University of Chicago; Howard Becker, professor of sociology, University of Wisconsin; and Thomas Cowan, professor of law, Wayne University. Edward J. Sparling, president of Roosevelt College, will deliver the opening address.

The 35th annual meeting of the **Optical Society of America** will be held at the Hotel Statler, Cleveland, October 26–28. Papers covering all phases of optics will be presented. On October 27 the society will be the guest of the General Electric Company at Nela Park. Arrangements are also being made for a trip to the Case Observatory on October 26, at which time J. J. Nassau, of the Case Institute of Technology, will speak on "Schmidt Optics in Astronomy." The meeting will be open to nonmembers of the society, and all interested persons are invited to attend. Further informa-

tion may be obtained from Arthur C. Hardy, Secretary, Optical Society of America, Massachusetts Institute of Technology, Cambridge 39, Mass.

**The American Institute of Chemical Engineers** will hold its 43rd annual meeting December 3-6 at the Neil House and the Deshler-Wallick Hotel in Columbus, Ohio. The program will include symposia on air pollution, glass manufacture, ultrasonics, the processing of viscous materials, and phase equilibria. For details concerning reservations and registration, address S. L. Tyler, Executive Secretary, American Institute of Chemical Engineers, 120 East 41st Street, New York City 17.

The following officers were elected at the meeting of the **American Society of Ichthyologists and Herpetologists**: John Treadwell Nichols and Helen T. Gaige, honorary presidents; George S. Myers, president; Robert C. Stebbins, Frederick H. Stoye, and Fred R. Cagle, vice presidents; Edward C. Raney, secretary; N. B. Green, publications secretary; and Dwight A. Webster, treasurer.

**The Society of American Foresters** will hold its 50th anniversary meeting at the Mayflower Hotel,

Washington, D. C., December 13-16, in commemoration of the founding of the organization in 1900. In addition to general sessions, subject divisions will hold meetings on private forestry, forest economics, forest recreation, forest products, forestry education, forest-wildlife management, silviculture, public relations, and watershed management. Information about the meeting may be obtained from the society's headquarters, 825 Mills Building, Washington, D. C.

## Miscellaneous

**The World Health Organization**, which already has set up regional organizations in the Eastern Mediterranean area, Southeast Asia, and the Americas, as well as a special office for Europe, is now preparing for the creation of a new regional organization for the Western Pacific area. The region provisionally includes Australia, China, the Philippines, South Korea, New Zealand, Viet Nam, Laos, Cambodia, Japan, Malaya, and Singapore, comprising over 600 million people. Although the separate organization is new, the agency has already worked in the region in fields ranging from

campaigns against malaria, tuberculosis, and venereal diseases to the training of nurses and surgeons. The Philippines was the first to ask WHO for aid in setting up a mental health system throughout its territory. A consultant was sent from Geneva to help establish a mental health program, including child guidance clinics. Other Western Pacific territories that have benefited from WHO assistance are Australia, China, Hong Kong, Malaya, Singapore, North Borneo, Brunei, Sarawak, South Korea, Indonesia, and New Zealand.

**A chronic disease research institute** has been established in Buffalo as a joint project of the U. S. Public Health Service, the New York State Department of Health, and the University of Buffalo's Medical School. The new institute plans a 50-bed inpatient service for research in specific problems of chronic disease. The out-patient service will include a unit for physical rehabilitation, a multiple screening unit, and a rehabilitation center for chronic alcoholics.

**The American Council of Voluntary Agencies for Foreign Service** is providing clearinghouse services to persons or organizations who wish to dispose of their bound volumes of medical journals. The council, through its American member agencies, coordinates plans and activities with nonmember agencies, and with governmental and intergovernmental agencies in the U. S. and abroad, to provide relief for war-stricken peoples. Further information can be obtained from the council at Willkie Memorial Building, 20 West 40th Street, New York City 18.

A new publication, *Journal of Atmospheric and Terrestrial Physics*, will soon be published by Butterworth-Springer, London. Edited by Sir Edward Appleton, secretary of the Department of Scientific and Industrial Research, the publication will appear every two months. The cost per volume is \$10.

**A panel on environmental cancer** has been formed by the Committee on Growth of the National Research



Architect's elevation of the new 22-story, \$12,000,000 Mayo Memorial Center now under construction at the University of Minnesota. When it is completed sometime in 1953, it will serve as a memorial to the Drs. Mayo. Funds for construction came from private donors, Federal agencies, the Minnesota state legislature, and from various medical research foundations and agencies.

Council, advisor for research to the American Cancer Society. The new panel, with William Machle as chairman, will be concerned with the status of knowledge in this field and with criteria for the establishment of valid relationships between environment and occupation and the occurrence of cancer. The panel will also review applications for grants in support of research on environmental factors in cancer; applications will be received until *October 1*. Communications regarding grants may be addressed to the Executive Secretary, Committee on Growth, National Research Council, 2101 Constitution Ave., Washington 25, D. C.

Staff members of the 48th expedition of the **Department of Tropical Research of the New York Zoological Society** recently returned from a six-month stay in the northern mountains of Trinidad. The expedition was under the direction of William Beebe, director of the Department of Tropical Research of the society. Headquarters were at Simla, a 200-acre estate in the Arima Valley, purchased as a field laboratory. Another expedition to Simla will leave early next year.

**Genetics—The Science of Heredity**, a popular interest pamphlet on genetics, was published on September 11 by the Genetics Society of America. The text, written by John Pfeiffer, science director of Columbia Broadcasting Company, gives the story of genetics in popular terms, and should be of special value to teachers, science students, farmers, doctors, and adult study groups. It records the contributions of Mendel, describes the place of genetics in the life sciences, explains results of applied genetics in agriculture, medicine, and other fields, and reports the case of the Russian renunciation of Mendelian principles. Copies may be ordered from Public Affairs Committee, 22 East 38th Street, New York City 16, for 20 cents a single copy. Discounts are available on larger quantities.

**The Registry of Rare Chemicals**, 35 West 33rd Street, Chicago 16, list the following wanted chemicals: strontium tartrate tetrahydrate;

aluminum triethyl; 2-carboxy-5-*n*-butyl pyridine; 1,5-dimethyl imidazole; 1,5-dimethyl iminazole; D- or L-ethyl lactate; 1-methyl-5-cyanomethyl imidazole; tetramethylhydrazine; 3-hydroxy-N-methylmorphinan; 1-(*p*-methoxyphenyl)-1,2-epoxypropane; N,N-dimethylthioacetamide; 4-amino-2-carboxy-1-N-phenyl-4-amino-4'-oxy-1,1'-diphenylmethane; 2-amino-5-nitrothiazole; 2-*n*-butyl hydroquinone; triethoxychlorosilane; carvacrol, pure; emodin; fraserin; and phytolaccinum.

**Pharmacological Basis of Penicillin Therapy**, by Karl H. Beyer, director of pharmacological research, Sharp & Dohme, has been published by Charles C Thomas Co., Springfield, Ill. Of special interest to clinicians, medical students, pharmacologists, and general practitioners, the book contains 37 illustrations and 200 pages of practical information organized for easy reference. In addition to the monograph, the text contains an addendum summarizing the preclinical information and clinical indications for "Benemid," an enzymological compound discovered since Dr. Beyer's book went to press. The book represents the first in a series of "American Lectures in Pharmacology," edited by Chauncey D. Leake, vice president in charge of medical affairs, University of Texas.

**Cooperative Determinations of the Amino Acid Content, and of the Nutritive Value of Six Selected Protein Food Sources** has been issued by the Bureau of Biological Research of Rutgers University. The studies were carried on during 1946-50 by 32 laboratories in 11 universities and in 13 industrial organizations. Sixteen amino acids in each of the six protein sources were determined by several methods, all using the same standards distributed by the bureau. Nutritive values for growth, maintenance, regeneration, reproduction, and lactation were determined for each protein source, also distributed by the bureau. Species used were chick, mouse, rat, dog, and man. Copies of the report may be obtained at \$1.50 each by writing William H. Cole, Rutgers University, New Brunswick, N. J.

## Recently Received—

### *Name Index of Organic Reactions.*

T. S. Wheeler and J. E. Gowan. Society of Chemical Industry, 56 Victoria Street, London, S.W. 1. 5s.

### *Acceptance Sampling: A Symposium.*

The American Statistical Association, 1603 K Street, N.W., Washington, D. C.

### *Baltic Amber Spiders in the Museum of Comparative Zoology.*

Alexander Petrunkevitch. Bull. 5, Vol. 103. Museum of Comparative Zoology, Harvard College, Cambridge, Mass.

### *Arthritis and Rheumatism Foundation: Annual Report, May 1, 1949 to April 30, 1950.*

535 Fifth Avenue, New York City.

### *Expert Committee on Malaria: Report on Third Session.*

World Health Organization, Tech. Rep. Series No. 8. WHO, Palais des Nations, Geneva. 30 cents.

### *Ecological Crop Geography of Finland and Its Agro-Climatic Analogues in North America.*

M. Y. Nuttonson. American Institute of Crop Ecology, P. O. Box 1022, Washington, D. C.

### *Weather and the Building Industry: Proceedings of Research Correlation Conference, January 11-12, 1950.*

Building Research Advisory Board, Division of Engineering and Industrial Research, National Research Council, Washington 25, D. C.

### *Poisonous Fishes of the South Seas.*

Special Scientific Report: Fisheries No. 25. Fish and Wildlife Service, U. S. Department of the Interior, Washington 25, D. C.

### *Abridged Scientific Publications.*

Vol. 30. Eastman Kodak Company, Rochester, N. Y.

### *Behaviour of Swarm Hoppers of the Australian Plague Locust *Chortoicetes terminifera* (Walker).*

L. R. Clark. Bull. 245, Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia.

### *Supply and Demand for Geologists.*

Report of Committee on Geological Personnel, American Geological Institute. National Research Council, 2101 Constitution Avenue, Washington 25, D. C.