The important advances being made with radioactive carbon as an isotopic tracer were described during the second half-day session. These experiments show that carbon dioxide is taken up not only in the light but also in the dark. Intensive efforts with carbon 14 as a radioactive tracer are being directed toward determining the composition of the first photosynthetic product. It appears to be a substance containing both carboxyl and hydroxyl groups which is soluble in hot alcohol and insoluble in benzene. Possible mechanisms were discussed, including reaction cycles by means of which the radioactive carbon is distributed among various organic acids and products.

The energy efficiency with which the light is used in photosynthesis was discussed on the third half-day.

Warburg's manometric technique leading to a quantum efficiency of 0.25 molecule of CO<sub>2</sub> consumed per quantum of light absorbed was criticized, and yields of about 0.1 molecule per quantum were described. Different measurements based on manometric technique, on calorimetry, on the dropping mercury electrode for oxygen analysis, and on the platinum electrode for oxygen analysis were carried out independently in different laboratories, and all gave quantum efficiencies in the neighborhood of 0.1 molecule per quantum.

The impression was gained that rapid progress in our understanding of the mechanism of photosynthesis will now be made along the lines discussed at the symposium. (Farrington Daniels, Vice-President.)

# NEWS and Notes

staff writer on the New York World-

Telegram, in the newspaper division,

and to Steven M. Spencer, associate

editor of the Saturday Evening Post,

in the magazine division. Honorable

mention in the magazine writing con-

test was given jointly to Lorus J. and

Margery J. Milne for their article in

(See Science, November 28, 1947, p.

513.) Citations were also presented to

the publications in which the winning

entries appeared. Pictured on this

week's cover are those who partici-

pated in the ceremonies: left to right,

Lee B. Wood, executive editor of the

New York World-Telegram, also repre-

senting Mr. Keaney, who was unable

to attend; Mr. Spencer; Harlow Shap-

ley, toastmaster; Mrs. and Mr. Milne,

managing editor of the Saturday Evening Post. Guest speaker at the dinner was

George D. Stoddard, president of the University of Illinois. His subject was "Science Aids Civilization."

# About People

Robert E. Marshak, associate professor of physics, University of Roch-Presentation of the 1947 AAASester, and chairman of the Federation George Westinghouse Science Writof American Scientists, has been aping Awards was made at a dinner on pointed a member of the School of December 27 during the meetings of Mathematics, Institute for Advanced the AAAS in Chicago. The two \$1,000 Study, Princeton, New Jersey, for the awards were made to George Keaney, spring semester. Dr. Marshak will be in residence at the Institute from February 15 to April 15.

J. Russell Bright, associate professor of chemistry, Wayne University, has been made acting chairman, Department of Chemistry, following the resignation of Neil E. Gordon from the chairmanship. Dr. Gordon will the June 1947 issue of Natural History. continue as professor in the department and as director of the Kresge-Hooker Scientific Library and the University's chemistry lecture series.

William R. Grove, professor of psychology and director, Division of Psychological Services, University of Pittsburgh, has been appointed psychologist and director, Child Service Study, Phoenix Public Schools. Carroll A. Whitmer, formerly with the Pittsburgh Public Schools, will succeed who also received the citation in behalf Dr. Grove at the University of Pittsof Natural History; and Robert Fuoss, burgh.

Alfred Washington Drinkard, Jr., director, Virginia Agricultural Experiment Station for 30 years, and assistant director for the past year, will retire February 1.

Jack Matthews, formerly of Purdue University, has been appointed director, Speech and Hearing Clinic, Departments of Psychology and Speech, University of Pittsburgh.

H. B. Mann, of Atlanta, Georgia, formerly Southern manager of the American Potash Institute, has been appointed vice-president of the Institute. Dr. Mann assumed his new duties January 1 at the Institute's headquarters, 1155 16th Street, N. W., Washington, D. C.

William G. Pollard, acting executive director, Oak Ridge Institute of Nuclear Studies, since February, 1947, and formerly professor of physics, University of Tennessee, has been made executive director of the Institute.

Marston Taylor Bogert, professor emeritus of chemistry, Columbia University, and former president, American Chemical Society, has been appointed senior scientific adviser, Evans Research and Development Corporation.

John C. Crowell, who recently received the Ph.D. degree in geology from the University of California, Los Angeles, has been appointed instructor in geology at that University.

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sor of botany, University of London, pointed plant physiologist at the medicine, and research fellow in biology, Har- Smith College Genetics Experiment Medical School, St. Louis; George vard University, has recently lectured Station. He will aid in research on W. McCoy, professor emeritus of preat various Midwestern universities on the physiological aspects of ovular ventive medicine, Louisiana State Unithe evolution of man, human genetics, tumors, being supported by a grant and the nature of species. The universities visited include Iowa State College, State University of Iowa, University of Illinois, University of Minnesota, University of Wisconsin, and baker Corporation of America, has Michigan State College.

William Haber has been appointed chairman, Division of Social Sciences, University of Michigan, for a threeyear term (1947-1950), succeeding James K. Pollock, whose term has expired.

Hans Molitor, director, Merck Institute for Therapeutic Research, who is making a trip through Central America to study Indian and Mayan drugs, will make a report to the University of Texas Medical Branch near the end of this month, and on January 26 will give a special lecture on "The Pharmacology of Antibiotics" at the Medical Branch.

Joseph B. Koepfli, chemist, California Institute of Technology, has been appointed a member of the Mission on Science and Technology to England, which is headed by Earl A. Evans, Jr., chairman, Department of Biochemistry, University of Chicago (Science, November 28, p. 518). Dr. Koepfli will be attached to the U.S. Embassy in London as a senior scientist for a period of one year.

Jerry W. Carter, Jr., director, Wichita Guidance Center, Wichita, Kansas, has been appointed to the position of scientist (R), U. S. Public Health Service, and will be assigned around February 1 to the Mental Hygiene Division, Washington, D. C. Joseph E. Brewer, assistant director, Wichita Guidance Center, has been made acting director.

David B. Tyler joined the staff of the Department of Embryology, Carnegie Institution of Washington, Wolfe and Madison Streets, Baltimore, Maryland, on December 1.

professor of plant physiology, Univer- Pennsylvania Medical School, Phila- early diagnosis, cancer research, and

from the American Cancer Society.

Arthur C. Bates, formerly of Bell Telephone Laboratories and the Studebeen appointed professor, Department of Mechanical Engineering, Lehigh University.

### Colleges and Universities

Eight Cornell University graduate students will soon begin a nationwide survey of current methods of conservation education and science teaching, under the direction of E. Laurence Palmer, professor of science and nature education at Cornell. A representative of the group will visit every state to gather data from elementary and high schools, junior colleges, outdoor laboratories, wildlife sanctuaries, and national parks. This study, which is expected to be completed by the end of 1948, and which is intended to un- for Physical Medicine; cover the best practices of conservation Kovacs, New York Polyclinic Mediand science teaching in the country, is a continuation of similar surveys which have been conducted by Dr. Palmer tion; Donald A. Covalt, New York since 1925 with the support of the University; John H. Kuitert, Fitz-American Nature Association and the simons General Hospital, Denver; A. Wildlife Management Institute. Dr. B. C. Knudsen, Veterans Administra-Palmer indicated that the group is tion, Washington, D. C.; and Henry seeking the cooperation of individuals D. Bouman, University of Wisconsin or groups interested in the project, and Medical School, Madison. would welcome information and suggestions for aiding the study.

under the direction of T. G. Blocker, educating the general public. Jr., announces that a basic science exhibit will be completely installed at course for general practitioners and the Museum of Science and Industry physicians desiring refresher work in in Chicago in about two years and will the basic sciences will be held in Gal- occupy a space there approximately veston the week of February 23-28, advances in the preclinical sciences. American Cancer Society to aid in fur-Special speakers will include John thering its growing public education Lawrence, professor of medicine, Uni- program. The display will cover a Jacob Rappaport, recently assistant sor of bacteriology, University of which it spreads, methods of treatment,

R. Ruggles Gates, emeritus profess- sity of Ghent, Belgium, has been ap- delphia; Carl Moore, professor of Washington versity Medical School, New Orleans: former Surgeon General (USPHS) Winans, clinical professor Henry of medicine, Southwestern Medical School, Dallas: M. S. Levy, Houston; and W. W. Powell, of Temple. A special feature of the course, which is to be under the direction of Donald Duncan, professor of anatomy, University of Texas Medical Branch, will be discussions relating to the clinical uses of radioactive isotopes.

The Division also announces a postgraduate course in physical medicine and rehabilitation to be held March 1-5 under the direction of Wilbur Selle, professor of physiology and director of the Laboratory of Medical Physics. This course is designed for the general practitioner and specialist interested in the more effective use of physical medicine. Speakers will include Frank H. Krusen, director of physical medicine, Mayo Clinic, and chairman of the Baruch Committee cal School, New York; Robert L. Bennett, Georgia Warm Springs Founda-

The Illustration Studios of the Chicago Professional Colleges, Uni-The Postgraduate Division, Uni- versity of Illinois, have planned a nonversity of Texas Medical Branch, technical, scientific cancer exhibit for 60 feet by 40 feet. The exhibit is The course will cover recent being developed at the request of the versity of California Medical Center, description of cancer, its causes, mis-San Francisco; Stuart Mudd, profes- conceptions regarding it, methods by

feature of the exhibit will be the Bernard L. Rosenberg, a recent gradu- on-Hudson, New York. inclusion of an information center ate of Georgetown University Medical where current information will be School, Washington, D. C. The awards made available, and where discussion are presented annually by the Schergroups can meet and films be shown. ing Corporation, Bloomfield and Union,

#### Industrial Laboratories

Ernest F. W. Alexanderson, consulting engineer, General Engineering and Consulting Laboratory, General Electric Company, retired January 1 after 45 years of service. Dr. Alex- fessor emeritus of ophthalmology, anderson, inventor of the alternator (a University of Illinois College of Medihigh-frequency machine operating at cine, will speak on "Edward L. high speeds for continuous wave transmission at high power), was honored tor" at a joint meeting of the Instiwith a testimonial dinner at which David C. Prince, vice-president in charge of the General Engineering and Consulting Laboratory, was toastmaster.

Five Bausch & Lomb Science Scholarships of \$1,500 each are again offered for the fifth year to outstanding high school and preparatory students throughout the country. April 1 is the final date for application for the 1948 scholarships. The finalists will be guests of the Bausch & Lomb Optical Company and the University of Rochester in the spring, when they will be given final tests and interviews to determine the winners. Each winner is expected to follow an undergraduate course with major emphasis on one or more sciences, according to an individual program submitted by the student and approved by the University of Rochester's Scholarship Committee.

David H. Dawson, director of sales, Pigments Department, Du Pont. Company, was awarded the honorary degree of Doctor of Engineering by Drexel Institute of Technology at its Founder's Day convocation in December.

New Jersey, for the best manuscripts prepared on a designated phase of endocrinology.

#### Meetings

E. V. L. Brown, Rush clinical pro-Holmes: Pioneer Chicago Eye Doctute of Medicine of Chicago, the Chicago Ophthalmological Society, and the Society of Medical History of Chicago at the Palmer House on Friday evening, January 30. The lecture of the Rudolph Wieser Holmes and Maria Baxter Holmes Fund in memorial to Edward Lorenzo Holmes.

Members will receive the printed pro- poses. gram after February 21. The meetof Technology.

and Electron Diffraction and the oratories; Janet Doe, New York Acad-Crystallographic Society of Amer- emy of Medicine; Sanford V. Larkey, ica will hold their first joint meeting Welch Medical Library; D. J. Haykin, at Yale University, April 1-3. Joint Mortimer Taube, Sarah G. Mayer, C. held, and the president of the Crystal- E. La Montagne, Library of Congress; The \$500 Schering Award for 1947 lographic Society will deliver a re- Mabel McLaughlin and Miriam M. went to Paul J. Kopsch, Richmond tiring address. Nonmembers wishing Wilson, Hill, Long Island, New York, a senior further information may obtain it Helen W. Kaan, D. L. Ballard, and medical student, Long Island College from Elizabeth A. Wood, Secretary, Michael J. Filippi, National Research of Medicine, for his paper on "The American Society for X-Ray and Elec- Council; Ruth Griffin and Ruth E. Clinical Use of Androgens in the Fe- tron Diffraction, Bell Telephone Lab- Rodier, Naval Medical Center; Clara male.'' Second prize of \$300 went to oratories, Murray Hill, New Jersey, or Manson, College of Physicians of Robert C. Foreman, Western Reserve from William Parrish, Secretary, Philadelphia; Mary Louise Beitzell, Medical School, Cleveland, Ohio, while Crystallographic Society of America, Social Security Administration; Doro-

current events regarding cancer. A the third prize of \$200 was awarded to Philips Laboratories, Inc., Irvington-

The Syphilis Study Section, National Institute of Health, a group of consultants organized for the purpose of promoting research in the field of venereal diseases, announces a symposium on "Recent Advances in the Study of Venereal Diseases," to be held in the Commerce Building, Washington, D. C., on April 8-9. All interested persons are invited to attend. Copies of the program will be sent at a later date upon request. Inquiries should be addressed to Dr. Frank W. Reynolds, Executive Assistant, Syphilis Study Section, Division of Research Grants and Fellowships, National' Institute of Health, Bethesda 14, Maryland.

A Symposium on Medical Subject is the first presentation under the gift Headings was held in Washington, D. C., on December 12-13, 1947, under the auspices of the Army Medical Library. The symposium was built about two objectives: to explore the ap-The Optical Society of America proaches used by medical indexers and will hold its winter meeting at the medical librarians to the related prob-Hotel Pennsylvania, New York City, lems of printed bibliographies and card March 4-6. Members wishing to catalogs, and to determine principles present papers should submit their which might be acceptable to both abstracts, limited to 200 words, on the groups in their selection of new medirequired form by noon, February 2. cal terminology for bibliographic pur-

The participating members included ings will be open to all interested Magdalene Freyder, American Medical persons. Nonmembers desiring pro- Association; Murrell C. Wellman, grams may secure copies from Arthur American Dental Association; Eileen C. Hardy, secretary of the Society, who R. Cunningham, Medical Library Asis located at Massachusetts Institute sociation; Estelle Brodman, Columbia University Medical Library: Claudius F. Mayer, Army Medical Library; The American Society for X-Ray Irene M. Strieby, Lilly Research Laband separate technical sessions will be W. Gull, Morris C. Leikind, and Leo Veterans Administration:

E. Wright, Williams College; and rep- the various fields. resentatives of the Army Medical Library.

presentation Following the papers, participants discussed (1) the in Charlottesville, Virginia, December problem of adapting medical subject 29-31, elected the following officers for headings to changing nomenclature, 1948: Richard Joel Russell, Louisiana i.e. new terms used in international State University, president; Clifford medical literature, particularly subject M. Zierer, University of California, headings used for periodical litera- Los Angeles, vice-president; John Kerr ture: (2) the lack of a standard list Rose, Library of Congress, councilor of subject headings for the medical for three years; Charles B. Hitchcock, sciences: and (3) direct or indirect headings, involving the extent of alphabetical classification desirable in a list of subject headings. As a result of the discussion a resolution was passed which urged the creation of a standard list of subject headings. During discussion of the third problem, several of those present suggested reconsideration of classed catalogs. The general principle of direct (nonclassified) headings, as well as that of specificity, was reaffirmed.

At the conclusion of the session a list of principles to be used in the selection of subject headings for medical literature was adopted.

The Philosophical Society of Washington (D.C.) held its 1293rd meeting in the Cosmos Club Auditorium January 17. The retiring president, Fred L. Mohler, delivered an address on "Mass Spectra of Hydrocarbons."

#### Elections

clair. Chauncey D. Leake, Univer- Colorado College, Colorado Springs. sity of Texas Medical Branch, spoke on "The History and Function of "the association of workers in the Academies." Ninety-six papers were field of protozoology for the presentapresented in the various sections. An tion and discussion of new or imporadditional 18 were presented at the tant facts and problems in that science at the Junior Academy. L. W. Blau, as shall tend to the advancement of Humble Oil Company, Houston, is the protozoology.'' The possibility of

thy M. Cramer, National Institute of Huntsville, Texas, is secretary-treas, and will be given further consideration Health; Thelma B. Dunn, National urer. It was proposed that during in the future. Affiliation with the Cancer Institute; Margaret C. Schind- 1948 a State Conservation Council be AAAS and with the American Instiler, Department of Agriculture; Wyllis established, composed of leaders in tute of Biology will also be considered.

> The Association of American Geof ographers, at its 44th annual meeting American Geographical Society of New York, treasurer; and Chauncy D. John R. Cortelyou, assistant professor Harris, University of Chicago, secre- of zoology, DePaul University, Chitary. At the annual banquet, Charles cago, its new permanent secretary, to F. Brooks, Blue Hill Meteorological succeed Rev. Anselm Keefe, St. Nor-Observatory, delivered the presidential bert's College, West De Pere, Wisaddress on "Climatic Record: Its Con- consin, who has resigned after 19 tent, Limitations, and Geographic years of service. Joseph E. Semrad, Value."

The American Society of Protozoologists was organized in Chicago on December 29, 1947, during the meetings of the AAAS. At a meeting of interested protozoologists L. E. Noland, of the Zoology Department, University of Wisconsin, was elected temporary chairman. A constitution was adopted for temporary use, and the following officers were elected: Ross F. Nigrelli, New York Aquarium, president: Banner Bill Morgan, College of Agriculture, University of Wisconsin, vice-president; Theodore Louis Jahn, Department of Zoology, University of Iowa, secretary-treasurer. The Executive Committee consists Dwight L. Hopkins, University of Illi-The Texas Academy of Science nois, Navy Pier, Chicago; R. R. Kudo, met in Austin, December 11-13, to University of Illinois, Urbana; John discuss the conservation of natural L. Mohr, University of Southern Caliresources. The presidential address, fornia, Los Angeles; Kenneth L. Oson "The Conservation of Man and His terud, University of Minnesota, Min-Resources," was given by John G. Sin- neapolis; and Robert M. Stabler,

The object of the Society shall be Collegiate Academy program and 24 and for the adoption of such measures new president, and Gladys H. Baird, publishing a journal was discussed issued quarterly.

All protozoologists who wish to join the Society or who wish further information are invited to write to the secretary. New members who join before the next meeting will be considered as charter members of the Society and may participate in formulating the permanent constitution.

The Catholic Round Table of Science, at its annual meeting in Chicago, December 30, in conjunction with the AAAS meetings, elected Rev. professor of zoology, DePaul University, was named head of a special committee to recommend new policies in line with organizational expansion. The Catholic Round Table of Science was organized in 1928 to stimulate scientific research in Catholic institutions in order to bring more Catholic workers into the fields of such research.

The Phycological Society America held its first annual meeting, December 28 and 31, in conjunction with the AAAS meetings in Chicago. Sixteen papers were presented in a half-day program. At the business session, a constitution was adopted and the following officers elected for the coming year: William Randolph Taylor, president; L. H. Tiffany, vicepresident; G. W. Prescott, secretarytreasurer (re-election); and I. F. Lewis, member of the Executive Com-

Membership in the Society, which was organized in December of 1946 to promote the interests of phycology in this country and abroad, is open to individuals, institutions, and industrial concerns interested in phycology or phycological research. Membership now totals 152, 32 of whom reside in foreign countries. The Society publishes a News Bulletin which is has elected Emil Ott, director of re- in Berkeley, California, January 7. search, Hercules Powder Company, Wilmington, Delaware, to the Board of Directors for a three-year term, succeeding Edward R. Weidlein, director, Mellon Institute for Industrial Research. Dr. Ott will act as regional director for the Third District, which embraces Pennsylvania, Ohio, and Delaware. Ernest H. Volwiler, executive vice-president, Abbott Laboratories, North Chicago, Illinois, was reelected for a four-year term as a director-at-large, and Charles A. Kraus, professor emeritus, Brown University, and a past president of the Society, was renamed regional director for the First District, consisting of New England and Canada.

The Botanical Society of Washington, at its December meeting, elected the following officers for 1948: president, Freeman Weiss; vice-president, Lee M. Hutchins; recording secretary, Katharina Bollenbacher; corresponding secretary, Anna E. Jenkins; treasurer, Wilbur D. McClellan; counselors, E. L. LeClerg and H. A. Borthwick: archivist, John A. Stevenson. Roland Bamford was nominated as Washington representative to the Academy of Sciences.

## Deaths

Frederick B. Isely, 74, professor of biology at Trinity University, San Antonio, Texas, died December 30 after a brief illness.

Thaddeus Lincoln Bolton, chairman, Department of Psychology, Temple University, for 22 years and professor emeritus since 1937, died in Temple University Hospital, Philadelphia, January 3.

C. O. Swanson, 78, formerly head, Department of Milling Industry, Kansas State College of Agriculture and Applied Science, Manhattan, died at his home in Manhattan, January 5, after a year's illness.

Max Pinner, 56, editor, The Amer-

The American Chemical Society ford Hills, New York, died at his home rector of the Museum, this new station

Vladimir Karapetoff, 72, professor emeritus of electrical engineering, Cornell University, died on January 11. petoff had been active as a consultant and lecturer.

Mellen W. Haskell, 84, professor emeritus of mathematics, University of California, Berkeley, died on January 15. Dr. Haskell joined the faculty there in 1890 and retired in 1933.

On the island of Bimini, a British possession lying about 50 miles east of Miami, Florida, the American Museum of Natural History is establishing the Lerner Marine Laboratory, which is to be under the direction of C. M. Breder, Jr., chairman of the Museum's Department of Fishes and Aquatic Biology. The new field base, now nearing completion, is named for its founder, Michael Lerner, naturalist and a member of the Museum's board of trustees, who has donated the Laboratory to the Museum and established a maintenance fund, in which others have participated, assuring year-round opportunity for many varied projects, the first of which will be the collection and identification of native fishes, marine invertebrates, and marine plants. The base provides a library-study, a large general laboratory, a small laboratory for microscopic work, a dark room for photographic and biological operations, and a large aquarium room for research on living organisms which is served by a nonmetallic sea-water pumping system. Also included are residences for the permanent staff and visiting scientists, storage space, a powerhouse with wind and gasoline generators, large and small boats equipped for observation and collection, diving helmets, concrete pools with running sea water, batteries of small aquaria, and a laboratory water table. Two large stockades have also been constructed in the ican Review of Tuberculosis, and sea for study of larger marine forms; formerly chief, Division of Pulmonary in one of these, 122 feet long, sharks York, and Montefiore Sanitarium, Bed-tion. According to A. E. Parr, di- 8, Hotel Stevens, Chicago.

will be the only one of its kind permanently operated by an institution such as the Museum.

D. Appleton-Century Company, Although blind since 1943, Dr. Kara- Inc., and F. S. Crofts & Co., Inc., have announced the merging of the two companies under the name of Appleton-Century-Crofts, Inc. rarily, the new company will maintain the offices heretofore occupied by the two former companies. President of the new company is W. Morgan Shuster: Frederick S. Crofts and Dana H. Ferrin will be directors and vice-president and executive vice-president, respectively; and Allen S. Wilbur will be vice-president and director of the Educational Book Department.

> The National Registry of Rare Chemicals, 35 West 33rd Street, Chicago 16, Illinois, announces the following wanted chemicals: 4,5-diamino-o-xylene; piperonylacetonitrile; 2-ketogluconic acid; succindialdehyde; d-threose; d-erythrose; monoperphthalic acid; heneicosane; eicosane; glucamine; 2-hexenal; tryptamine; germanium sulfide; germanium halides; 4-imidazole aldehyde; indole-3aldehyde; decadiene-3,7; galactoflavin; pyridazone; canaline; agmatin; and galegin.

#### Make Plans for—

Symposium on the Diagnosis of Viral and Rickettsial Infections, January 29-30, New York Academy of Medicine, New York City.

American Physical Society, annual meeting, January 29-31, Columbia University, New York City.

American Society of Heating and Ventilating Engineers, February 2-5. New York City.

American Philosophical Society. midwinter meetings, February 6-7, (originally scheduled for February 13-14), 104 S. 5th Street, Philadelphia, Pennsylvania.

American Academy of Oral Path-Diseases, Montefiore Hospital, New and barracuda are now under observa- ology, 2nd annual meeting, February