

# NEWS

## and Notes

The Association regrets to inform the readers of *Science* that on April 5, 1947, Dr. Willard L. Valentine, editor of the journal since January 1, 1946, died at his home from sudden heart failure.

Prior to assuming the editorship of *Science* Dr. Valentine was chairman of the Department of Psychology at Northwestern University. He is survived by his wife, Norma, and two children, Richard and Virginia. Funeral services were held in Columbus, Ohio, on April 8.

### About People

Richard Foster Flint, professor of geology at Yale University, will present a series of three illustrated lectures on the general subject of "The Glacial Ages" at the Wagner Free Institute of Science, Washington, D. C. The lectures are entitled: "Glaciers of Today and Yesterday" (April 11), "Indirect Effects of Glaciation" (April 12), and "Glacial and Interglacial Climates" (April 18). The lectures will begin at 8:00 P.M., and admission will be free.

A. Earl Pritchard, U. S. Public Health Service Communicable Disease Center, has been appointed assistant professor of entomology and assistant entomologist in the Experiment Station, University of California, Berkeley.

James M. Schopf, paleobotanist, U. S. Bureau of Mines, has been granted leave to conduct a special study of South African coal under auspices of the South African Council of Scientific and Industrial Research, with headquarters at the South Africa Geological Survey, Pretoria. Dr. Schopf will return to this country early in October.

C. Stacy French, associate professor of plant physiology, University of Minnesota, Minneapolis, has been appointed director of the Division of Plant Biology, Carnegie Institution of Washington at Stanford University, California, to begin July 1. He will succeed H. A. Spoehr, chairman of the Division since 1932, who will devote full time to research on production of carbon compounds by plants.

Dr. French joined the Minnesota faculty in 1941. His research has been concerned with cellular respiration, the photosynthesis of purple bacteria and green leaves.

E. Raymond Hall, director, University of Kansas Museum of Natural History, returned March 20 from the University of Costa Rica Museum of Natural History after a month's study.

A. S. Pearse, professor of zoology, Duke University, was feted at dinner by over 60 biologists on his 70th birthday, March 14. He was presented with a bound volume of letters from former students.

Herbert M. Evans, director, Institute of Experimental Biology, University of California, delivered the 23rd Ludvig Hektoen Lecture of the Frank Billings Foundation, Institute of Medicine of Chicago, Friday evening, March 28. His subject was: "The Internal Secretions of the Pituitary Body."

Albert R. Mead, research fellow in zoology, University of California, Berkeley, has been appointed instructor in zoology, University of Arizona, Tucson.

### Visitors to U. S.

Joel Axelsson, Institute for Utfodningslára, Uppsala, Sweden, is conducting research on the digestibility of feeds with Burch H. Schneider, Agricultural Experiment Station, West Virginia University, under a fellowship from Swift and Company, Chicago.

Maurice Stacey, University of Birmingham, England, will be guest of honor at sessions of the Division of Sugar Chemistry and Technology, American Chemical Society, at meetings in Atlantic City, April 15-17. On April 16 Prof. Stacey will participate in a symposium on sugars and amino sugars in biochemistry.

Gregory Wentzel, professor of theoretical physics, University of Zurich, is at present a visiting professor at Purdue University, Lafayette, Indiana.

A. J. Petrick, acting director, Fuel Research Institute, and J. W. van der Merwe, assistant industrial adviser, Department of Commerce, South African Government, arrived in this country early in March to study developments in synthetic liquid fuels production from coal.

### Fellowships

Cornell University School of Nutrition announces the following fellowships for 1947-48: two Philco frozen food fellowships of \$1,300, one for studies on cooking and another on processing frozen foods; and two \$1,500 Robert Gould research fellowships in nutrition. Applicants must hold the Bachelor's degree and be otherwise qualified for admission to the School. Information may be obtained from the Office of the School of Nutrition, Cornell University, Ithaca, New York.

### Grants and Awards

The 1947 Franklin Medal, highest honor of the Franklin Institute, Philadelphia, will be awarded to Enrico Fermi, Nuclear Research Institute, Chicago, and Sir Robert Robinson, professor of chemistry, Oxford University, England, at Medal Day exercises in Philadelphia April 16.

Dr. Fermi will receive the honor for outstanding work in the field of atomic energy. "His immediate recognition in 1932 of the neutron as an atomic projectile has resulted in much of what science knows today of this important development," the Institute stated. For this work he received the Nobel Prize in physics in 1938.

Sir Robert Robinson will be honored for contributions to the present knowledge of natural substances, particularly contributions in the sterol field and work on pyrimidine analogues and their relation to vitamin B. He was knighted in 1939 for contributions in the field of organic chemistry.

The gold medal, carrying a medallion of Benjamin Franklin, is awarded annually to workers, regardless of country or creed, who have done most to advance a

knowledge of physical science and its application.

**Charles Allen Thomas**, vice-president and technical director, Monsanto Chemical Company, St. Louis, and president-elect of the American Chemical Society, was named as the second recipient of the Industrial Research Institute Medal at the close of the Institute's winter meeting in Chicago, February 27-28. Formal presentation of the award, which is granted for an outstanding contribution to industrial research, will be made at the annual meeting of the Institute in June.

**Jacinto Steinhardt**, formerly a physical chemist, National Bureau of Standards, has been awarded the President's Certificate of Merit by the Navy Department for "outstanding fidelity and meritorious conduct in aid of the war effort."

Dr. Steinhardt was cited for services as a member of the Anti-Submarine Welfare Operations Research Group, a group of scientists under OSRD, in devising original and effective tactics for aircraft in combating submarines and intercepting enemy blockade. He is now director of research of the successor organization, the Operations Evaluation Group, scientists and mathematicians engaged in scientific analysis of naval tactics, strategy, and new developments, furnished to the Office of the Chief of Naval Operations by Massachusetts Institute of Technology.

**The Department of Obstetrics and Gynecology**, University of Utah School of Medicine, was recently awarded the 1946 prize for outstanding clinical investigative work, presented by the Central Association of Obstetricians and Gynecologists. The work was described in a paper, "Menorrhagia Associated With Irregular Shedding of the Endometrium," presented by the authors, E. G. Holmstrom and C. E. McLennan, at a meeting of the Association in Chicago.

**J. C. Geiger**, director of public health, city and county of San Francisco, California, has been granted the Grand Ducal Order of the Oak Crown, House of Nassau, Grand Duchy of Luxembourg, founded as an Order of Merit in 1841. Dr. Geiger received the decoration through the foreign minister "for distin-

guished service to the Duchy of Luxembourg and its citizens and as a great humanitarian in the field of public health."

**The Morris Liebmman Memorial Prize** of the Institute of Radio Engineers has been awarded to Albert Rose, Radio Corporation of America Laboratories, Princeton, for 1946, and to J. R. Pierce, Bell Telephone Laboratories, New York, for 1947. Formal presentation was made at the Institute's annual dinner, Hotel Commodore, New York, March 5.

Dr. Rose, who has specialized in research in the field of television camera tubes, received the prize for work on the image orthicon picture tube, and Mr. Pierce, who has worked on high-frequency tubes, for his part in developing the traveling-wave type of tube.

**Jerome P. Webster**, Columbia-Presbyterian Medical Center, New York, was recently made a Commander of the Greek Order of the Phoenix for his work in restoring the features and limbs of Greek Army fliers wounded in the war. Presentation was made by John D. Kalergis, Greek Consul General, in New York.

**E. Newton Harvey**, Henry Fairfield Osborn professor of biology, Princeton University, has been awarded the grade of officer of the "Ordem Nacional do Cruzeiro do Sul" by the Brazilian Government, in appreciation of a series of lectures on biophysics delivered at the Instituto Biofisica in April 1946.

**The Jane Coffin Childs Memorial Fund for Medical Research** made the following appropriations on November 15, 1946, and February 21, 1947, a total of \$202,616.66 in support of cancer research projects and fellowships:

F. Duran-Reynals, associate professor of bacteriology, Yale University School of Medicine, \$49,500 for 3 years, 1947-50, for continued study of viruses and cancer.

J. Engelbreth-Holm, professor of pathology, University of Copenhagen, Denmark, \$3,000, 1947, 1948, for continued study of the factors influencing carcinogenesis by chemicals.

W. U. Gardner, professor of anatomy, Yale University School of Medicine, \$16,500, 1947-50, for continued investigations of the role of hormones in normal and abnormal growth.

Alexander Haddow, director, and his associates at the Chester Beatty Research Institute of the Royal Cancer Hospital (Free), London, England, \$5,000, 1947-48, for continued support of the Institute's research program on chemical carcinogenesis, viruses and cancer, and chemotherapy of cancer.

J. G. Kidd, professor of pathology, Cornell University Medical College, \$14,580, 1947-50, for continued study of viruses and cancer.

C. C. Little, director, and P. A. Gorer, guest investigator, Roscoe B. Jackson Memorial Laboratory, supplement of \$1,000, 1946-47, to assist in Dr. Gorer's collaboration on investigations of immunological aspects of genetics.

C. P. Rhoads, director, and his associates at Memorial Hospital and Sloan-Kettering Institute for Cancer Research, \$10,000, 1946-47, for continued chemical and metabolic studies of cancer with special reference to steroids.

W. T. Salter, professor of pharmacology, Yale University School of Medicine, \$546.66 for 6 months, 1946, for biochemical studies of enzymes and steroids in relation to malignancy.

L. C. Strong, associate professor of anatomy, Yale University School of Medicine, \$41,290, 1947-50, for continued genetical investigations of cancer.

J. C. Turner, assistant professor of medicine, Columbia University, College of Physicians and Surgeons, \$8,000, 1947, 1948, for study of viruses and cancer.

Donner Foundation, for continued contribution to support of the journal, *Cancer Research*, \$5,500 for 1947.

Yale University School of Medicine, supplement of \$500, 1946-47, for replacement of equipment in animal house.

C. G. Baker, fellow, \$1,800, 1947-48, to work with D. M. Greenberg, Division of Biochemistry, University of California, Berkeley.

J. B. Goetsch, fellow, \$3,000, 1947-48, to work with C. L. Deming, Section of Urology, Department of Surgery, Yale University School of Medicine.

D. A. Karnofsky, fellow, \$13,500, 1946-49, to work with C. P. Rhoads at Memorial Hospital and the Sloan-Kettering Institute for Cancer Research.

Joshua Lederberg, fellow, \$2,400, 1947-48, to work with E. L. Tatum, Department of Botany, Yale University.

B. L. Newton, reappointed fellow, \$3,500, 1947-48, to work with H. S. N. Greene, Departments of Surgery and

Pathology, Yale University School of Medicine.

Stanfield Rogers, fellow, \$3,500, 1947-48, to work with Peyton Rous, Rockefeller Institute for Medical Research.

W. C. Schneider, fellow, supplement of \$500, 1946-47, while working with Albert Claude, Rockefeller Institute for Medical Research.

J. E. Sokal, fellow, \$9,000, 1947-50, to work with C. N. H. Long and H. S. N. Greene, Departments of Physiological Chemistry and Pathology, Yale University School of Medicine.

An allocation of \$10,000 for 1947-48, to be used for expenses of conferences, lectures, consultants, and travel of investigators receiving grants from the Fund. A commitment of \$4,500 has been made from this allocation to help bring foreign investigators to the United States for the Fourth International Cancer Research Congress in St. Louis, September 1947. A commitment of \$3,000 has been made from a similar allocation for 1946-47 for the organizing and operating expenses of the Congress.

## Colleges and Universities

The Harvard School of Public Health announces that Thomas M. Rivers, director of the Hospital of the Rockefeller Institute for Medical Research, will deliver the Cutter Lecture on Preventive Medicine in Amphitheatre D of the Harvard Medical School on April 22 at 5:00 P.M. Dr. Rivers' subject will be: "Certain Public Health Aspects of Infectious Diseases."

The Tulane University Council on Research has provided \$12,350 for a five-year study of the reptiles and amphibians of Louisiana. The program, under Fred R. Cagle, associate professor of zoology, is designed to define species and accumulate data on reptile populations and histories. An expedition to western Louisiana and eastern Texas is planned for the summer of 1947.

Long Island University, Brooklyn, New York, has announced promotion of Curtis L. Weathers to professor and chairman of the Department of Biology, and Harold M. Messer to associate professor of biology.

The University of Hawaii opened its 40th anniversary celebration with a tradi-

tional island feast March 15. The following three college presidents were among U. S. speakers at the celebration: Karl T. Compton, Massachusetts Institute of Technology; Howard L. Bevis, Ohio State University; and Charles Seymour, Yale University. Gregg M. Sinclair, president of the University of Hawaii, extended invitations to these and other U. S. participants.

Stanford University has announced the following appointments to begin in September 1947: Charles E. McLennan, professor and head of the Department of Obstetrics and Gynecology, University of Utah School of Medicine, has been named to the same position at the Stanford School of Medicine, San Francisco; Leonard I. Schiff, University of Pennsylvania physicist who worked on the Los Alamos project, associate professor of physics; and Josephine R. Hilgard, director of the Child Guidance Clinic, Children's Hospital, San Francisco, associate clinical professor of medicine.

The Ohio State University announces promotion of Julian B. Rotter to associate professor psychology and Abraham Edelmann to instructor of physiology.

## Meetings

The South Carolina Academy of Science will hold its annual meeting in Columbia, South Carolina, on April 26 together with the Junior Academy of Science.

Over 30 papers have been scheduled for the Senior Academy meeting. Papers will be presented by those competing for the Jefferson Award, offered by Phipps and Bird, of Richmond, Virginia, for a paper based on original research.

A symposium on "Recent Advances in the Investigation of Venereal Diseases," to be held in the auditorium of the Federal Security Building, Washington, D. C., beginning at 9:30 A.M. on April 17, has been announced by J. E. Moore, chairman of the Syphilis Study Section of the National Institute of Health. Although it is not possible for the Study Section to defray travel expenses, all interested persons are invited to attend. Copies of the program will be sent upon request. All inquiries should be ad-

ressed to Dr. Gordon Seger, Executive Assistant, Syphilis Study Section, National Institute of Health, Bethesda 14, Maryland.

The Federation of American Societies for Experimental Biology announces that hotel rooms are still available for its May 18-22 meeting in Chicago. Requests should be addressed to Dr. F. J. Mullin, University of Chicago College of Medicine, Chicago 37, Illinois.

The Society of American Foresters will hold its annual meeting in Minneapolis, December 18-20, 1947, with headquarters in the Hotel Nicolett. E. L. Demmon, director of the Lake States Forest Experiment Station, St. Paul, is chairman of the program committee.

## Elections

At a meeting of the Branner Geological Society of Southern California, California Institute of Technology, Pasadena, March 5, Vernon L. King, consulting petroleum geologist, was made president; Richard Jahns, California Institute of Technology, vice-president; and William H. Easton, University of Southern California, secretary-treasurer.

Emil Witschi, professor of zoology and experimental biology, State University of Iowa, has been elected a corresponding member of the Swiss Society of Genetics.

## Recent Deaths

H. Van Gent, 47, head of the Johannesburg Observatory, died March 31 in Amsterdam. Dr. Van Gent's collection of astronomical photographs formed the basis for important investigations of the central structure of the Milky Way.

W. B. Scott, 89, professor emeritus of geology and paleontology at Princeton University, died March 29 in Princeton. Winner of the Wollaston medal of the Geological Society of London in 1910, Dr. Scott was an internationally known authority on fossil mammals.

R. S. Greene, 65, former general director of the China Medical Board of the

Rockefeller Foundation and vice-director of Peiping Union Medical College since 1929, died March 27 in West Palm Beach.

Juan Noé, 70, director of the Instituto de Biología of the Universidad de Chile, died January 22 in Santiago. In addition to serving on the faculty of the University for 35 years, Dr. Noé was instrumental in the sanitation of large malaria areas in northern Chile and was in large part responsible for the founding of the Institute.

A letter has been received from Abdul Majid, president of the University of Kabul, Afghanistan, asking support of American bacteriologists in rebuilding the reprint collection of his university. Sanford Elberg, Department of Bacteriology, University of California, Berkeley, who received the letter, said the Afghanistan institution has received nothing in bacteriological literature since 1940 and is especially in need of material on microbiology and public health.

The Committee for the Study of Animal Societies Under Natural Conditions held its first meeting in New York, January 31 and February 1, under auspices of the New York Zoological Society, following arrangements made at the Conference on Genetics and Social Behavior, Roscoe B. Jackson Memorial Laboratory, last summer.

At the New York meeting J. P. Scott was elected executive secretary to coordinate activities of the Committee. The following were made chairmen of subcommittees on special research projects: C. R. Carpenter, Jackson Hole Research Project; T. C. Schneirla, subcommittee to survey locations and institutions in which research on animal social behavior and organization is possible; and Fairfield Osborn, ways and means.

Purpose of the conference was to help organize a research program on animal behavior, particularly in connection with the New York Zoological Society's new station at Jackson Hole, Wyoming. Action was also taken on the Barro Colorado Island Biological Station, which, the Committee believes, needs to be put on a permanent basis of support as a center of tropical research.

The secretary's office, it is hoped, will be a clearinghouse for research ideas

and projects of various individuals and institutions. Correspondence should be addressed to J. P. Scott, Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Maine.

**Research on the fundamental principles of phosphate fixation and release by soils**, utilizing radioactive phosphorus, will be conducted by the North Carolina Agricultural Experiment Station, Raleigh, under a grant from the Phosphate Research Committee of the fertilizer industry. The Experiment Station has arranged for cooperation with the New York Agricultural Experiment Station, Ithaca, and Bureau of Plant Industry, Soils, and Agricultural Engineering, USDA, Beltsville, Maryland.

The technical committee, representing industry, consists of H. B. Siems, Swift & Company; R. R. Hull, I. P. Thomas and Sons Company; H. E. Hendricks, Knoxville Fertilizer Company; F. E. Boyd, Virginia Carolina Chemical Corporation; and V. Sauchelli, Davison Chemical Corporation, chairman.

The American Society of Professional Biologists has intensified its organizational activities due to response to the article, "A Society for All Biologists," which appeared in *Science*, October 4, 1946. Copies of the proposed constitution and applications for membership may be obtained from Roy F. Fritz, 605 Volunteer Building, Atlanta, Georgia, or Norman C. Laffer, Department of Bacteriology, University of Maryland, College Park, Maryland.

**A Swedish zoological expedition** of six members, headed by Åke Holm and Bergt Lundholm, Upsala University, will investigate the fauna on Kilimandjaro and a number of other East African peaks, on which various animal species from earlier and more humid epochs have survived. The expedition is expected to leave Sweden in the fall and spend about a year in Africa.

**The first natural history museum in Iraq** was established in Baghdad early in 1946 and is now operating under the auspices of the Iraq Ministry of Education.

According to Bashir E. Allouse, director, and member of the AAAS, the Iraq Natural History Museum consists

of three main sections: Zoological Section, with exhibits of the avifauna of Iraq and small collections of Iraqi mammals, reptiles, fishes, and invertebrates; Botanical Section, with plaster-made models of Iraqi fruits and vegetables and specimens of plant products, economic plants, and plant diseases; and Geological Section, with a cement model of the geological structure of Kirkuk oil fields, presented by Iraq Petroleum Company, and a model of an oil refinery, oil products, and other items, presented by the Rafidain Oil Company, as well as specimens of rocks, crude oil, and fossils found in Iraq.

The museum seeks contacts with similar museums in the U. S. and other countries with a view to exchanging information and publications. Contributions of books, periodicals, and bulletins should be sent to the Director, Iraq Natural History Museum, Baghdad, Iraq.

**An International Trust for Zoological Nomenclature** has been established for the purpose of managing the financial, commercial, and other business affairs of the International Commission on Zoological Nomenclature, according to Francis Hemming, secretary of the International Commission, who writes:

"In view of rapid growth in recent years in the volume of its work, the International Commission on Zoological Nomenclature, an unincorporated body of 18 international commissioners elected by the International Zoological Congress, recently formed an incorporated body under United Kingdom law with the title, International Trust for Zoological Nomenclature. At the same time the International Commission has transferred its assets to the International Trust and the Trust has accepted responsibility for all liabilities of the Commission.

"Under the new arrangements, the Commission will continue all its scientific functions while the Trust will be responsible for publishing the Commission's *Opinions* and other publications, meeting its administrative expenses, and carrying out such further developments as may be decided on by the Commission.

"Members of the Commission will be members of the Trust and the secretary to the Commission will be secretary *ex-officio* to the Trust. The Trust has taken over as its registered office 41, Queens Gate, London, S.W.7., hitherto occupied by the Commission. The Commission has

arranged for appointment of certain honorary unpaid officials of the Commission as members of the Trust to ensure that there will at all times be a sufficient number of members available to attend meetings of the Trust. At invitation of the Commission chairmanship of the Trust has been accepted by Col. the Rt. Hon. Walter Elliot."

Full text of the instrument of incorporation will be published in an early issue of the Commission's *Bulletin of Zoological Nomenclature*.

The foundation stone was laid November 21, 1946, for an \$11,000,000 National Metallurgical Laboratory at Jamshedpur, India, part of a program of the Indian Council of Scientific and Industrial Research and the Government of India to establish a chain of 7 research laboratories in different parts of the country.

According to G. P. Contractor, Research Laboratories, The Tata Iron & Steel Company, Ltd., Jamshedpur, the laboratory will cover both fundamental and applied metallurgical research. A descriptive note from Dr. Contractor states: "Provision has been made in final plans of the National Metallurgical Laboratory for administration, including statistics, library, museum; chemical analysis, physical chemistry, physics as it affects metallurgical problems; examination, preparation, and smelting of metallic ores; melting, heat treatment, and working of metals and alloys; research into the structure and physical properties of metals and alloys; electrodeposition and surface treatment of metals; and research on refractories."

The laboratory will consist of a main building and separate technological block. The main building, containing offices, laboratory, museum, theater, and library, will have three floors with a total of 60,600 square feet of working area. The technological block, with large workshop laboratories and associated control rooms, will provide working floor area of about 28,000 square feet.

Early in January cornerstones were laid for the new National Physics Laboratory, modeled on our National Bureau of Standards, and for a Laboratory of Industrial Research, both in Delhi. The Central Glass and Ceramic Research Institute in Calcutta and the Fuel Research Institute, Dhanbad, in addition to the National Metallurgical Laboratory, were founded during 1946.

Harlow Shapley, director, Harvard College Observatory, and president, AAAS, who was a guest of the All-India Science Congress in Delhi during January, observed Pandit Jawaharlal Nehru, leader of the Congress Party, accept presidency to the newly-created Association of Scientific Workers of India, to be assembled from the faculties of the 20 universities in India and from the technical workers in the textile, steel, jute, and other factories.

The food research and development program of the Quartermaster Corps, Chicago, has expanded 50 per cent since V-J Day and now has a staff of 250, occupies 120,000 square feet of floor space, has an equipment inventory of \$500,000, and an annual operating budget of approximately \$2,000,000.

The Institute is a coordinating center, working with more than 500 industrial laboratories on food, ration, and container development problems, and with more than 80 colleges, universities, and other research institutions on fundamental problems in food research. Results of this effort are more than 300 food and ration specifications, basis of the food procurement program for the armed forces. From a technological standpoint, the Institute is operated almost entirely by civilian scientists and technologists.

According to a letter received from Guido Grandi, director of the Istituto di Entomologia della Università, Bologna, the Institute was destroyed by the Anglo-American bombardment, but by repeated removals during three years, partly preceding and partly following the bombardment, all of the library, collections, and apparatus were saved. The letter, received by J. C. Bradley, professor of entomology, New York State College of Agriculture, Cornell University, states that the Institute is now in reconstruction and has fully resumed its activities. Publication of the *Bolletino* has been continued, and the 15th volume will shortly be issued.

The Società Entomologica Italiana was seriously and irreparably damaged, according to the letter, the bombardment having destroyed 50,000 volumes, though the *Bolletino* and *Memorie* are being continued in reduced scale.

Hui-Ling Li, professor of botany, Soochow University, and former member of the AAAS, is attempting to rebuild his

botanical library following return to China in 1946, after six years work in this country. He would appreciate receiving reprints of papers from American botanists. They may be addressed to: Dr. Hui-Ling Li, Department of Biology, Soochow University, Soochow, China.

**The National Registry of Rare Chemicals**, Armour Research Foundation, 35 West 33rd Street, Chicago 16, Illinois, has submitted the following list of wanted chemicals: 1,18-octadecanodioic acid; nucleoproteins; millite; gahnite; celsian; prismatin; sapphiran; tetrophan; 4-amino-2,2'-dichlorobenzophenone; 4-amino-2,4'-dichlorobenzophenone; eicosenol-1; talomucic acid; agaric acid; d-fucose; elaidic acid; pyrroline; tropic acid; d-quercitol; glucurone; and hydrindene.

**The 20th Josiah Willard Gibbs Lecture** was delivered by Subrahmanyan Chandrasekhar, of the Yerkes Observatory, University of Chicago, before the 53rd annual meeting of the American Mathematical Society, Swarthmore College, Swarthmore, Pennsylvania, in December. Dr. Chandrasekhar's subject was "The Transfer of Radiation in Stellar Atmospheres." By invitation, addresses were also given by A. P. Morse, University of California, on "Derivatives and Their Integrals," and Harald Cramér, University of Stockholm, on "Some Aspects of the Theory of Stochastic Processes." Seventy research papers were presented at the meeting, attended by over 500 people.

## Make Plans for—

**American Chemical Society**, spring meeting, April 14-18, Atlantic City, New Jersey.

**Association of Southeastern Biologists**, 8th annual meeting, April 18-19, Emory University, Georgia.

**Southeastern Section, Botanical Society of America, Inc.**, 4th annual meeting, April 18-19, Emory University, Georgia.

**Institute of Mathematical Statistics**, meeting on stochastic processes and noise, April 24-25, New York City.

**American Geophysical Union**, 28th annual meeting, April 28-30, National Museum, Washington, D. C.