due in part to the efforts made by the Genetics Society of America to stimulate interest in the Congress among its members. In 1946 the president of the Society appointed a travel committee (R. C. Cook, M. Demerec, Th. Dobzhansky, and M. M. Rhoades), which kept members informed about the preparations for the Congress and about travel facilities, and which appointed a travel agency to serve the geneticists.

Travel arrangements were greatly facilitated by the Swedish-American Line, which reserved 50 round-trip passages for geneticists. In addition, the Genetics Society was fortunate in obtaining grants from the Carnegie Corporation and from Mr. W. P. Draper to help members with travel expenses. Twenty-two members, mostly from among the younger geneticists, received travel grants from the Society.

NEWS and Notes

William G. Madow, of the North Carolina Institute of Statistics, Chapel Hill, has been named professor of mathematical statistics at the University of Illinois, effective January 1,

two years has been a Stephen H. Wilder Research Fellow at the University of Cincinnati, has joined the Experimental Nuclear Physics Division of Argonne National Laboratory, Chicago, as an associate physicist.

Alex B. Novikoff has been appointed associate professor of experimental pathology at the College of Medicine, University of Vermont. In his new position he is in immediate charge of the Cancer Research Program within the Department of Pathology which at present includes studies of the biochemical and cytochemical changes in growth and neoplasia.

John L. Magee, of the Argonne National Laboratory, has been appointed assistant professor in the Chemistry Department, University of Notre Dame, and Ernest L. Eliel, who has recently received the Ph.D. degree from the University of Illinois, has been appointed an instructor in the same department.

E. L. LeClerg, who has been a principal budget examiner in the Bureau of the Budget, Executive Office of the President, Washington,

of crop production.

William H. Adolph recently became professor of biochemistry at Peiping Union Medical College. Dr. Adolph had formerly served as biochemistry professor and acting president of Yenching University, Peiping, China.

Biochemical Section, Fermentation Research Department, Publicker Indus-Stanley J. Czyzak, who for the past tries, Inc., has been named chief of the Microbiological Branch of the Food Research Division, Quartermaster Food and Container Institute for the Armed Forces, Chicago. In his new position, Dr. Rayman will direct research on the nature and factors affecting the microbiological and histological changes which occur in the processing and storage of foods for the armed

> Prem Narrain Agarwal, Central Government of India Scholar, recently became a special international trainee under the International Fellowship Program of Joseph E. Seagram & Sons, Inc., Louisville, Kentucky. In June Dr. Agarwal received his Ph.D. in biochemistry from the University of Wisconsin, where he has been working since December 1945 on the production of food yeast from molasses.

George B. Cressey, chairman, Department of Geography, Syracuse University, has been participating in meetings of the International Geographical Union in Brussels and the International Geological Congress being held in London. Dr. Cressey will return to America in mid-September.

search Administration, USDA. His at Wright Field, has become a biocoordination work will be in the field physicist for the University of Illinois? new Aero Medical and Atmospheric Institute.

Visitors to U. S.

Sir Chandrasekhara Venkata Raman, Indian physicist and Nobel Prize winner, recently completed the last lap of his 5-week tour of the United States by visiting the Polytechnic Morton M. Rayman, chief of the Institute of Brooklyn. Here he conferred with I. Fankuchen, professor and head of the Division of Applied Physics, as well as founder of the Institute's crystallographic laboratories, which Sir Raman inspected.

> Through his research on the spectra, Sir Raman became interested in the study of precious stones and has amassed a collection of some 500 rare diamonds. This, in turn, led to a study of spectrum variations in diamonds and the problem of the origin of luminescence. This work has given physicists new ideas on the behavior of atoms in crystals and promises to throw new light on the phenomena of fluorescence of solids.

> On his return to India (see Science, July 30, p. 101), Sir Raman will direct the research and teaching of the newly-completed Raman Research Institute in Mysore province. Patterned after the Royal Institute of London. the Raman Institute will be dedicated to fundamental scientific work. Sir Raman hopes it will become one of the leading scientific research centers as well as an international cultural center accessible to men in all scientific fields.

Rajindar Pal, entomologist for the Malaria Institute of India, will shortly arrive in this country as a re-Victor Guillemin, Jr., until recently search fellow of the National Institute D. C., has been appointed a research chief of the physics unit of the U. S. of Health. Dr. Pal will be conducting coordinator in the Agricultural Re- Air Forces' Aeromedical Laboratory studies, over the period of the next year, on the methods of action of DDT standing work in dairy cattle research. A. Girshick, author of a number of on malaria mosquitoes with the Tech- The award was made to Dr. Schalk articles on statistical theory and its nical Development Division, Communi- during the meeting of the American applications, who has been serving as cable Disease Center, USPHS, Savan- Veterinary Medicine Association in research statistician for a government nah, Georgia. For the past two years, San Francisco for his discovery of a research project being conducted at Dr. Pal has been working on the fatal cattle disease, resulting from the Douglas Aircraft Company in penetration of insecticides through eating of spoiled sweet clover hay or Santa Monica, California, has been insect cuticle at the London School of silage, together with methods of its appointed professor in the Depart-Hygiene and Tropical Medicine, as a prevention and cure. fellow of the Rockefeller Foundation.

Grants and Awards

the development of color television." director.

High school seniors from the 25,000 schools in the United States, chemistry Department in the Univer-Alaska, Hawaii, and Puerto Rico are sity of Arkansas School of Medicine, being invited to take part in the 1949 has been selected for the 1948 Mid-Pepsi-Cola Scholarship Program under west Award of the St. Louis Section, which 119 four-year college scholar. American Chemical Society. Dr. Day ships and 600 college entrance prizes, was recognized for his pioneer retotaling \$350,000, will be awarded. search leading to the discovery of This is the fifth consecutive year that vitamin M for the treatment of the Pepsi-Cola Company has financed pernicious anemia. The gold medalsuch scholarships. Winners, selected lion award will be presented to him on the ba is of two examinations, will at a special ceremony to be held durbe announced next March. The four- ing the forthcoming Midwest session year scholarships include full college of the 114th meeting of the Society. tuition, \$25 a month, and traveling expenses for the period. College entrance prizes, awarded to runners-up, are worth \$50.

psychology at Stanford University and training in statistics at undergradudirector of the Pepsi-Cola Scholar- ate and graduate levels, research in ship Board, states that in the past statistical theory and techniques, and four years the program has grown consultation on statistical aspects of from one in which only 3,729 schools university research, will be instituted took part to one embracing almost at Stanford University this fall. Acthalf the secondary schools in the Na- ing head of the Department will be tion.

of Veterinary Medicine, Ohio State 1943 to 1945 Prof. Bowker was assist- extent that of the School of Medicine University, has been named the 1948 ant director of the Statistical Research at Harvard University, which estabwinner of the \$1,000 Borden Award Group of the Applied Mathematics lished the first such department.

Kell, who since 1942 has been director be R. I. McDavid, Jr., who recently (economics), consideration of his outstanding pio- gan. With the culmination of the ogy). neer work in television, the adapta- upstate New York work, materials tion of this means of communication will be at hand from the entire Atlanto military needs, and for his inventic seaboard area—the scope of the tive contributions and leadership in Atlas as planned by Hans Kurath, its

Paul L. Day, head of the Bio-

Colleges and Universities

A new Department of Statistics, John M. Stalnaker, professor of the functions of which will include

ment. Other Stanford faculty members whose work already includes spe-The American Council of Learned cial applications of statistics will Societies has just made a grant to cooperate in instruction and research. the Linguistic Atlas providing for 8 They are: Eugene L. Grant (eco-The Stuart Ballantine Medal of months of field work in upstate New nomics of engineering), Quinn Mcthe Franklin Institute will be awarded York, an area which was left incom- Nemar (psychology and education), at Medal Day ceremonies in Phila- plete by the death of Guy S. Lowman George Polya (mathematics), Willis delphia on October 20 to Ray Davis in 1941. The field work will be done H. Rich (biology), Paul B. Simpson Holbrook of television research at the RCA completed the field work in the South (Food Research Institute), William A. Laboratories in Princeton, New Jer- Atlantic States and is now finishing Spurr (Graduate School of Business), sey. The medal goes to Mr. Kell "in a survey of the folk-speech of Michi- and Frank W. Weymouth (physiol-

> University of Arkansas School of Medicine has recently announced several additions to its staff. Among them are Carl E. Duffy, formerly associate professor of bacteriology at Wayne University School of Medicine, who has been appointed professor and head of the Department of Bacteriology and Parasitology succeeding James T. Culbertson, who is now associated with the National Institute of Health; Harry J. Clausen, of the Loyola University School of Dentistry, New Orleans, who has been appointed associate professor of anatomy; James S. Dinning, who will be assistant professor of biochemistry; and James O. Fergeson, Capt., M. C., who was stationed at Shaw Field, Sumter, South Carolina, prior to separation from the military service and who has been appointed instructor in the Department of Anatomy.

James H. Growden, now associate professor of surgery, has been named acting head of the Department of Oncology, which was recently established with the aid of a grant of \$21,000 from the National Institute of Health.

The Medical College of Virginia. Albert H. Bowker, who has been as- Richmond, will inaugurate this year sistant professor of mathematical sta- a Department of Legal Medicine, the Arthur F. Schalk, of the College tistics at Stanford since 1946. From program of which will follow to some presented to a veterinarian for out- Panel at Columbia University. Meyer Courses will be offered in the field

of H. S. Breyfogle, Chief Medical Ex- 535-foot Cathedral of Learning. aminer of Virginia, will also engage in research and offer postgraduate work undertaken will be a study of the role of injury in the cause of cancer.

The Department of Biology, University of Notre Dame, recently announced the following staff appointments: Arthur Schipper, formerly of has been concerned with the develop-Texas A. & M., as assistant professor in biology (animal physiology); Norbert Scully, of the University of Chicago, as assistant professor in biology (plant physiology); and the Rev. Cletus Bachofer as instructor (phycology). Dr. Scully has been granted a year's leave of absence to participate in radiobiological research at the Argonne National Laboratory.

The Chemistry Department, University of Pittsburgh, recently completed installation of a Collins Helium Cryostat for research in chemical thermodynamics. Determinations of the low-temperature specific heats of a number of substances is currently under way. Later, energy studies of some selected metals and alloys in the ultra-low-temperature range will be undertaken with the cryostat, which permits temperature measurements between 2° K and room temperature.

Industrial Laboratories

"Carbon copies" of powerful lightning bolts are being made by Westinghouse Electric scientists in an effort to improve our defenses against one of the most destructive forces in nature. Lightning strokes trapped at outdoor experiment stations by special instruments which record their current, wave shape, duration, and number of separate components reproduced in the laboratory and their is to be held this year at Portland, relations of science today are (1) the effects on various materials and pieces of equipment tested. The information obtained is filed for future industries of the Pacific Northwest ure become dependent on military reference in building improved protective devices.

in the summer of 1947 and was esti- of these will be held at Reed College. the Committee expects to call on both mated as equal to the current flowing Dinner and luncheon addresses will scientific institutions and individual

Horizons, Inc., Princeton, New Jerlaboratory staff this summer. Samuel Bousky, Ohio engineer and president of the Cleveland Section of the Instrument Society of America, has in His Community." joined the organization as chief of the Physics Division. Since 1935 he ment of special electrical and electronic instruments for industrial use. New head of the Ceramics Department at the Cleveland laboratory of Horizons is Alexis G. Pincus, who since 1932 has been associated with the Research Department of the American Optical Company. Morris Steinberg, who received his doctorate in metallurgy from the Massachusetts Institute of Technology this past June, has joined the Metallurgy Department staff in Cleveland, while Edward F. Mayer, who was graduated from Yale University this year with a B.S. in physics, will be associated with the Physics Department.

A 70,000,000-volt synchrotron is being constructed by General Electric Company for Queens University, Kingston, Canada, and will be modeled after one developed by the G-E Research Laboratory for its own use in atomic research. The synchrotron, which will be used by members of the Queens University staff and other Canadian scientists in research with high-energy X-rays, will be installed in a special underground chamber and operated from a remote-control station in a nearby building.

Meetings

The fall meeting of the American

of medicine as it relates to the collec- into 300,000 homes. This particular be made by A. J. Groening, head of tion of scientific evidence for adminis- bolt was so powerful that it damaged the Physics Department, Lewis and tering civil and criminal law. The some of the equipment set up to trap Clark College, whose subject will be new department, under the direction it atop the University of Pittsburgh's "Atoms for Peace"; Wilson M. Compton, president of the State College of Washington, who will speak on "Engineering in an Era of Big to physicians. The first research to be sey, has made several additions to its Science and Big Government"; and L. J. Fletcher, of the Caterpillar Tractor Company, Peoria, Illinois, who will discuss "The Engineer's Stake During the meetings members of ASME will inspect installations at Bonneville Dam, the world's largest sawmill at Longview, the Reynolds Metal Aluminum Plant at Troutdale, and other plants manufacturing paper and wood fiber products.

> A meeting of the Committee on Science and its Social Relations of the International Council of Scientific Unions held at UNESCO House in Paris, June 15-16, was attended by Bart J. Bok, of the Harvard College Observatory; J. M. Burgers (secretary), of Delft, Holland; C. H. Desch, of London; A. Establier, liaison officer ICSU-UNESCO, Paris; and P. B. Rehberg, of Copenhagenall members of the Committee. Also present were two representatives of the Natural Sciences Section of UNESCO, S. N. Sen and B. Michelsen, designated by P. Auger, who was absent from Europe; M. P. Bonet-Maury, secretary of the World Federation of Scientific Workers; and Wang Ging-Hsi, of the UNESCO secretariat, who represented the Chinese members of the Committee.

> After presentation of various reports on aspects of the work of the CSSR and of UNESCO, the method of working of CSSR and subjects to be included in its future program were discussed extensively and several resolutions adopted unanimously.

In the opinion of the Committee the are Society of Mechanical Engineers most urgent problems of the social Oregon, September 7-10, with hydro-dangers threatening science from the electric power resources and the wood fact that research has in large meascofeatured in the technical program. sources and on industry for financial Symposia on hydroelectric power and assistance, and (2) the way in which The most powerful stroke recorded on light metals will constitute two of results of science are introduced into by Westinghouse engineers occurred the 10 technical sessions planned. All society. In working on these problems scientists as well as UNESCO for ad- should conduct an enquiry among scistipends to research workers to whom be widely disseminated. special problems could be entrusted. ICSU and UNESCO to grant the necessary financial means for these proj-

The second resolution involved principles of a charter for scientists. It is quoted in full below.

The prominent position held at present by science in society, and the rapid transformation of the world through the application of science, carry with them for scientific workers special obligations over and above the ordinary duties of citizenship. Besides this the scientific worker has special responsibilities since he or she has the possibility of obtaining information not readily available to the average citizen. It thus becomes the duty of the scientist to: (a) maintain a spirit of frankness, honesty, integrity and cooperation, and to work for international understanding; (b) consciously examine the meaning and purposes of the work that he or she is performing; (c) when in the service of others, inquire into the purpose for which the work is being done and the moral issues that may be involved; (d) promote the development of science in the way most beneficial to mankind and exert his or her influence as far as possible to prevent its misuse; (e) assist in the education of the people and the government in the purposes and the achievements of science.

In order to fulfill these obligations it is necessary to claim certain rights for scientists, the principal ones of which are: (i) freedom of publication and the utmost freedom to discuss one's work with other scientists; (ii) economic security and the right to participate freely in all activities permitted to all citizens; (iii) the possibility of obtaining information about the purposes for which his or her work is being done.

the dangers arising from subvention of research from military sources. The Committee believes that "this influence sooner or later through its E. C. Migdalski, of Yale's Peabody 102 members. First chairman of the secrecy restrictions will lead to the abrogation of the traditional freedom Richard S. Mack, assistant mammal- the Technical Department of the G-E directed research planned primarily for the benefit of zel, of the National Geographic So- Works, are: Wayne W. Marshall, science and mankind but rather for ciety staff; and Indian taxidermists vice-chairman; Harry A. Kornberg, its destruction."

It was also agreed that the CSSR after arrival in Asia.

Prof. J. M. Burgers has been nom-Belgium, secretary.

Members of an expedition to little known Nepal, situated in the shadow of the Himalayas, will sail from Seattle on September 15, ac-National Geographic Society, which is sponsoring the expedition in coopera-Smithsonian Institution. Dillon Ripley, associate curator and lecturer in zoology at Yale, who is heading the party, estimates that about 5 months will be spent in the field, a considerable portion of that time being devoted to natural history study and collection of specimens in Nepal's southern lowlands, which abound in a large assortment of beasts and birds which have never been studied scien-A third resolution had to do with ment looking toward a national park nium. rhinoceros.

The U.S. Department of Agrivice and cooperation. In order to entists, sociologists, prominent people culture has just announced the apfacilitate the work to be undertaken in educational work, etc. on the mean-pointment of Philip V. Cardon as head the Committee has pointed out the ing of science and scientific coopera- of the Agricultural Research Adminisvalue of founding a journal devoted tion for peace. The results of this tration. Dr. Cardon comes to the to subjects referring to the social re- enquiry, which is expected to be con- position with 39 years of experience in lations of science and of providing cluded by the end of September, will agricultural research obtained in both university and government work. On As the result of a fifth resolution May 17 of this year he received the The Committee has requested both the the Committee will investigate the at- Distinguished Service Award of the tention to be given to the human fac- Department of Agriculture for "outtor in the social relations of science, standing service and exceptional devoting itself to three principal as- leadership in the advancement of agripects: (1) the scientist before society, cultural science." He fills the posi-(2) changes introduced in human so- tion left vacant by the resignation of cieties through technological develop- W. V. Lambert, now dean of the ments, and (3) the antagonisms be- Nebraska College of Agriculture and tween biological order and social order. director of the Experiment Station.

Simultaneously it was announced inated chairman of CSSR, and Prof. that Byron T. Shaw, soil physicist, who M. Florkin, Laboratoires de Bio- for the past 18 months has served as chimie, 17, Place Delcour, Liège, assistant administrator of research in the Department, had been appointed deputy administrator. In this position he will be responsible for many of the day-to-day operations of ARA, the largest civilian research organization in the world.

Oak Ridge National Laboratory cording to an announcement from the now has on hand a considerable quantity of Calcium 45, which is formed as a by-product in the production of Cartion with Yale University and the bon 14 by irradiation of Ca(NO₃), The specific activity of this Ca 45 is between 0.3 and 0.4 mc/gm of Ca. The material is available for distribution in the form of solid CaCO, at a cost of \$2.20/mc. Those wishing to request the material from the Isotopes Division should specify "Item S-5B" on the Application for Radioisotope Procurement, AEC Form 313.

The American Chemical Society tifically. Subsidiary work will also be has announced the establishment of a done in adjacent areas of India, in- new Local Section at Richland, Washcluding a survey for the Indian govern- ington, manufacturing site of pluto-The Richland Section to be to preserve the vanishing great Indian composed of chemists and chemical engineers of Benton and Franklin Dr. Ripley will be accompanied by counties, has a charter enrollment of Museum; Howard C. Weaver and new section is Robert Lee Moore, of of expression and of publication, and ogists, from Fredonia, New York, and Hanford Works, Richland. Other ofnot Del Monte, California; Volkmar Went- ficers, all associated with the Hanford and other personnel to be recruited secretary; and Howard E. Hanthorn, treasurer.