biological, oceanographic, and military investigations conducted in this little known area during 1946. Approximately 60 civilian scientists and technicians participated in the resurvev. representing the U.S. Geological Survey, the Fish and Wildlife Service, the National Museum, the Navy Department, the Atomic Energy Commission, and various universities and research institutions. Four ships were assigned to the expedition including the U.S.S. Chilton, a transport of about 15,000

Although fishes and other marine animals from the entire lagoon area were often found to contain slight amounts of radioactivity, no large-scale changes were observed in population density of reef or pelagic animals or in the relative abundance of different species. Some coral patches in the target area showed evidence of destructive effects due to the atomic bomb explosions. Reproductive processes in living organisms appeared normal, and no morphological changes were found. Studies of permeability, salt accumulation, bioelectric potential, pigment content, photosynthesis, respiration, enzyme activity, and calcification were carried out on marine algae. Only one difference, a higher activity of the hydrogen peroxide decomposing enzyme, catalase, was noted between areas which had received heavy doses of radiation from radioactive substances and those which had not been affected by radiation. Marine bacteria and land organisms appeared unaffected by radiation. In the eastern end of Bikini lagoon the water is considerably more turbid than in the spring of 1946; the cause of this change is not well understood.

The subsurface structure of Bikini Island on the eastern end of the atoll was explored by core-drilling down to a depth of 2,556 feet, nearly two and a half times as deep as the Funa Futi boring, the only previous drilling on a coral atoll. Unconsolidated or very poorly consolidated calcareous sediments beach rock, reef limestone, coral rubble, and calcareous sandwere found at all depths. Preliminary examination by geologists and paleontologists of the U.S. Geological Survey shows that late Tertiary corals and mollusks were encountered at 930 feet, and it is possible that the top of the Tertiary section may be considerably higher. Seismic velocity determinations in the deep hole suggest a continuous transition to more compacted calcareous materials near the bottom. On the basis of previous geophysical evidence, these may extend down to depths of one to more than two miles.

Studies of the deposition of calcium carbonate indicate a rate of upward growth of the reef of about 1 mm. per year.

Twenty-four dredge hauls were made on the outer slopes of the reef. These show that the outer slope consists near the surface of large blocks of limestone mixed with calcareous sand. The size of the blocks decreases with depth from several tons near the surface to several hundred pounds at depths of more than 200 fathoms. Below 200 fathoms these limestone blocks are rare. From 10 to 100 fathoms, living corals, algae, bryozoa, sponges, and other forms are present in abundance. The profusion and variety of life decreases rapidly with depth; below 100 fathoms the predominant forms are foraminifera, algae, a few deep-water corals, sponges, and brachiopods.

# **NEWS** and Notes

in New York City on November 20. M.A. degrees in English from Boston Award was incorporated into the an-George A. Keaney, feature writer on College. the New York World-Telegram won the 1947 Newspaper Writing Award Nieman Fellowship in Journalism at at a presentation dinner on December for his series of five stories on blood, Harvard University in 1939 while he 27 during the AAAS meetings in and more especially on the Rh factor was employed on the Philadelphia Chicago. Upon this occasion Dr. of blood, which appeared in the New Bulletin as staff science writer. He Shapley will act as toastmaster, and York World-Telegram, March 18-22, later contributed articles to the the guest speaker will be George 1947. This year's Magazine Writing Saturday Evening Post and joined its Stoddard, president of the University Award was won by Steven M. Spen- staff in 1946. Mr. Spencer was born in of Illinois. Through funds provided by cer, associate editor of the Saturday Omaha, Nebraska, and received an the Westinghouse Educational Foun-Evening Post, for his story, "New A.B. degree in English at the Uni- dation of the Westinghouse Electric Hope for the Anemic" (an article on versity of Pennsylvania. He is now Corporation and under the adminisfolic acid), which appeared in the living in Swarthmore, Pennsylvania. tration of the AAAS, the annual sci-December 14, 1946, issue. The judges further recommended that several general circulation magazines effort to stimulate and maintain a high honorable mention for the Magazine during the last year as free-lance writ- standard of science reporting for the Writing Award be given Lorus J. and ers. They are now living in Burlington, lay public through the newspapers and Margery J. Milne, free-lance writers, Vermont, where Dr. Milne is associate the general circulation magazines.

for their article, "The Life of the professor of zoology in the Uni-Water Film," published in the June versity's Department of Zoology. 1947 issue of Natural History.

years, Mr. Keaney had taught Eng- Jenkintown, Pennsylvania. lish and civics in the Lawrence, The winners of the two \$1,000 Massachusetts, high school for 13 Award was made for the first time at AAAS-George Westinghouse Science years. He was born in Lawrence in the Boston meetings of the AAAS in Writing Awards for 1947 were selected 1906 and later received his A.B. and Chicago, and the Magazine Writing

Mrs. Milne was formerly associate A newspaperman for only three professor of biology at Beaver College,

The \$1,000 Newspaper Writing nual program for the 1947 contests. Steven Spencer was awarded a Both of the 1947 awards will be made The Milnes have contributed to ence writing awards are made in an

The judges selecting the 1947 winners were: Benjamin McKelway, editor of the Washington Star, and H. L. Mencken, of the Baltimore Sun papers, representing newspapers; Clifton Fadiman, of '47, and Edward Weeks, of the Atlantic, representing magazines: Kenneth Olson, of the Medill School of Journalism of Northwestern University, and Rudolf Flesch, author of The art of plain talk, general representatives; and Detlev Bronk, chairman of the National Research Council, and Edward Weidlein, of the Mellon Institute for Industrial Research, representing science. Dr. Morris Meister acted as chairman of the judging panel.

# Visible Directory, Chicago Meeting

Advance registrants, please note: As soon as your hotel reservation in Chicago has been made, either notify the Washington Office of the name of your hotel or, upon your arrival in Chicago, give this information to the attendant at the Information Booth in the Stevens Hotel for posting in the Visible Directory.

# About People

James B. Sumner, professor of biochemistry, Cornell University, and the first to crystallize an enzyme, has been appointed director of the Laboratory of Enzyme Chemistry, recently established by the trustees of Cornell University. Dr. Sumner was co-winner of the 1946 Nobel Prize in Chemistry. The new laboratory will be located in Savage Hall, the new building of the School of Nutrition (Science, October 10, November 14).

Samuel C. Schmittle has been appointed assistant in the Department of Veterinary Pathology and Hygiene, University of Illinois College of Veterinary Medicine. Dr. Schmittle was graduated from the Ohio State Veterinary College in 1947.

Research Laboratory, Mt. Sinai Hospital, New York City, has been commissioned in the U. S. Public Health Service and Harvard College Observatory, and presihas been assigned to the Physiology Division, National Institute of Health, and Steuart Henderson Britt, psycholo-Bethesda, Maryland.

Florence B. Seibert, associate pro- Burton, psychiatrist of Washington, D. C. fessor of biochemistry, Henry Phipps By discovering and developing scien-Institute, University of Pennsylvania, tific ability at the high school level the received the honorary D. Sc. degree from two sponsoring institutions, Westing-Lafayette College, Easton, Pennsylvania, house and Science Service, are playing a at the Founders' Day exercises, October major role in relieving the critical short-

Thomas G. Digges, a member of the Metallurgy Division, National Bureau of Standards, since 1920, has been appointed chief, Thermal Metallurgy Section, succeeding D. J. McAdam, chief of the Section since 1930, who retired August 31.

### Grants and Awards

A publication of the American Chemical Society, Industrial and Engineering Chemistry, has been awarded first prize for 1947 for "the best issue devoted to a single theme" in the annual competition sponsored by Industrial Marketing, Chicago, among the nation's business journals. The award, a silver plaque, was conferred in recognition of the quality and scope of articles on the utilization or disposal of industrial wastes which made up the May issue of the journal, which is edited by Walter J. Murphy, Washington, D. C.

The Seventh Annual Science Talent Search, sponsored by Westinghouse Electric Corporation and Science Service, is now under way. Examinations will be given to the contestants from December 1 to 26, the closing date. From the 300 top-ranking contestants, 40 will be chosen for all-expense trips to the five-day Science Talent Institute in Washington, D. C., February 27 through March 2, 1948, during which the winners will be selected. One girl and one boy will receive \$2,400 Westinghouse Grand Science Scholarships (\$600 a year for four years) and 8 others will receive scholarships of \$400 (\$100 a year for four years). An additional \$3,000 worth of scholarships may be awarded to others of the 40 at the discretion of the judges. Concurrently with the national talent search, 9 states (Alabama, Georgia, Illinois, Iowa, Louisiana, Montana, Pennsylvania, Tennessee, and Virginia) will conduct state John C. Keresztesy, chemist, Cancer searches through a special arrangement with Science Clubs of America. The judges are Harlow Shapley, director, dent of the AAAS; Harold A. Edgerton

age in scientific talent which is the growing concern of most countries of the world today. More complete information on this program may be obtained from Science Clubs of America, 1719 N Street, N. W., Washington 6, D. C.

The Research Corporation, New York, has recently made several awards of interest. Two physics teachers, A. A. Knowlton, Reed College, Portland, Oregon, and Clifford N. Wall, formerly at North Central College, Naperville, Illinois, and now at the University of Minnesota, received special awards of \$1,000 each for distinguished teaching. A survey had shown that of all physicists granted Ph. D. degrees in this country between 1936 and 1945, an outstanding number had been undergraduates at Reed and North Central. Two other awards, each consisting of a plaque and a \$2,500 honorarium, went to Lee A. Du-Bridge, president, California Institute of Technology, "for his outstanding scientific achievements in directing the Radiation Laboratory of OSRD in the field of microwave radar research, development, and application to national defense," and to Merle A. Tuve, of the Carnegie Institution of Washington, in recognition of his scientific contributions in making possible the proximity fuse and his administration of the various groups which equipped the Armed Forces with the device.

William F. Meggers, chief, Spectroscopy Section, National Bureau of Standards, Washington, D. C., was the recipient of the Frederick Ives Medal, presented by the Optical Society of America at its 32nd annual meeting at the Netherland Plaza Hotel, Cincinnati, Ohio, October 24.

The University of Pennsylvania has received a grant of \$155,000 from the Carnegie Corporation which is to be extended over a five-year period for the support of a program of Indian and related Asian studies. The program, including both teaching and research and combining the activities of several fields and departments, will include studies of the cultural, political, social, economic, hisgists of New York City; and Rex E. torical, anthropological, and other aspects another and to the total character of at the University, spoke on "Atomic En-faculty, who will also head a broadened present-day civilization in the Union of ergy-Servant of Mankind." The 1,000 program in metallurgical engineering. India and Pakistan. A special depart- guests present also heard special messages already organized in the School of Chemment to be created for administration of from President Truman, who was repre- ical and Metallurgical Engineering, which the program will be directed by W. sented by his personal physician, Brig. is under the over-all direction of F. H. Norman Brown, professor of Sanskrit Gen. Wallace H. Graham; Martin H. Rhodes, director of the School of Chemand chairman, Department of Oriental Kennelly, mayor of Chicago; and Maurice ical Engineering since its founding in Studies, who is now en route to India and Goldblatt, president of the Cancer Re- 1938. The school will continue to train Pakistan. The program, designed to search Foundation. train students in many different disciplines to apply their particular techniques to research and study of the Indian aspects of those fields, and to train them for government, business, teaching, and other types of service in India, will be in full operation by the fall of 1948.

## Colleges and Universities

The University of Illinois, Division of Biological Sciences, will sponsor three lectures at Urbana by R. Ruggles Gates, emeritus professor of botany, University of London. The first lecture, December 1, will be on the topic, "The Evolution of Man." On December 2, Dr. Gates will deliver addresses on "Some Principles of Human Genetics" and "The Nature of Species."

The University of Chicago Cancer Research Foundation has launched a campaign to raise the funds needed to provide Chicago with a very modern and complete cancer center. The sum of \$2,580,000 has already been provided for this program, including \$1,600,000 for the Nathan Goldblatt Memorial Hospital and \$980,000 toward the construction of a new 170-inch cyclotron. Immediate objective of the campaign is to raise the additional \$570,000 necessary to complete the financing of the cyclotron, which has promise, theoretically, for deep radiation, and will be used extensively for research toward this end. It has been so designed that patients may be brought to it for treatment. Final objective is \$2,000,000 for an isotope laboratory, which will be the first building designed for research with radioactive isotopes. Plans for the campaign were outlined at a civic dinner, November 10, in the ballroom of the Stevens Hotel, Chicago, at which, Charles B. Huggins, of the University of Chicago, who decancer, gave an address on "New Hor- presented a fund of \$250,000 to endow the offer courses in physical and synoptic izons in Cancer Research," and Enrico professorship at a dinner given in his meteorology, meteorological laboratory,

Iowa State College will have in operation by next spring a new food-processing laboratory, with equipment on a semicommercial scale for research in canning, freezing, and dehydrating. The building is a two-story barracks-type which will be moved from the Ottumwa naval air base to the Iowa State campus. The processing laboratory and an evaluation laboratory for testing results will be on the ground floor. The second floor will contain an analytical laboratory, classrooms, and space for graduate students to work. Research work will be carried on by the horticulture subsection of the Iowa Agricultural Experiment Station. E. S. Haber, head, Department of Horticulture, and Robert G. Tischer, research associate professor in charge of food-processing research, will be in charge of the laboratory. The work in the new laboratory will involve cooperation with the Departments of Poultry Husbandry, Home Economics, Bacteriology, Animal Husbandry, and others.

The University of Illinois Graduate School has been renamed the Graduate College upon the recommendation of George D. Stoddard, president of the University, in recognition of the increasing importance of advanced studies. The enrollment at the Graduate College is now 2,359, an increase of 34 per cent over last year's enrollment, which in turn had been greater than all previous enrollments. Louis N. Ridenour, editor-in-chief of the 28-volume McGraw-Hill series of books on the wartime developments of the Radiation Laboratory at Massachusetts Institute of Technology, is dean of the Graduate College.

Cornell University has established an endowed professorship of metallurgical engineering, named after Francis

of the national life in relation to one tinguished service professor of physics chair is Peter E. Kyle, of the Cornell chemical engineers while preparing other students for responsible positions in research, development, and administration in the metallurgical industries. The new curriculum, a five-year course leading to the degree of bachelor of engineering, already has an enrollment of 27 students. The new program stems from the pioneer interest in metallurgy of the late Robert Henry Thurston, an early leader in engineering education, who placed metallurgical engineering among the most important fields of instruction and research at Cornell University.

> The Institutum Divi Thomae, Cincinnati, has appointed a Clinical Advisory Committee composed of 9 physicians and scientists to act as a consulting staff in those aspects of its research which pertain to clinical medicine. In addition to Andrew C. Ivy, vice-president in charge of the Chicago Professional Colleges, University of Illinois, who is chairman of the Committee, the membership includes, E. V. Cowdry, Washington University, St. Louis, vicechairman; Josiah J. Moore, treasurer, American Medical Association; James H. Hutton, internist and endocrinologist, Chicago; Edward C. Compere, associate professor of orthopedics, University of Illinois College of Medicine; Karl F. Meyer, director, George Williams Hooper Foundation for Medical Research, University of California; Hobart A. Reimann, professor of medicine, Jefferson Medical College, Philadelphia; William D. Stroud, professor of cardiology, Medico-Chirurgical College, Graduate School of Medicine, University of Pennsylvania; and Albert E. Casey, assistant professor of pathology, Medical College of Alabama, Birmingham. Lawrence C. Salter, Chicago, is secretary of the Committee.

The University of Washington, Norwood Bard, owner of the Barco Seattle, has established a Department of veloped one of the first chemical tests for Manufacturing Company, Chicago, who Meteorology and Climatology, which will Fermi, Nobel Prize winner and dis-honor. The first occupant of the new and physical and regional climatology. Phil E. Church is acting executive medicine and malaria are invited to at- Electron Physics, the Division of Solidofficer, and William L. Schallert, tend the meetings. formerly a major in the Air Forces Weather Service, is a member of the staff.

Alabama Polytechnic Institute has added four new members to its Department of Botany and Plant Pathology: Kenneth H. Garren, Georgia Agricultural Experiment Station; Donald E. Davis, Ohio State University; Henry S. Ward, Jr., Iowa State College; and James A. Lyle, University of Hawaii Experiment Station.

#### Industrial Laboratories

The Kellex Corporation, atomic energy subsidiary of the M. W. Kellogg Company, has appointed as its new director of research and development H. Hugh Willis, formerly chief research director and vice-president, Sperry Gyroscope Company, Inc., and vice-president, Engineering and Product Development, Eversharp, Inc. Mr. Willis will be in charge of all Kellex research and development on nuclear energy and assist in certain phases of guided missiles development.

Food Research Laboratories, Inc., Long Island City, has named Milton Blitz assistant to the chief chemist, and has appointed Edward Eigen, formerly of the Ouartermaster Food and Container Institute, Chicago, to the technical staff.

#### Meetings

At the 32nd annual meeting of the Institute of Medicine of Chicago. to be held in the Red Lacquer Room, Palmer House, on the evening of December 2, Joseph L. Baer, Rush clinical professor emeritus of obstetrics and gynecology, University of Illinois College of Medicine, will deliver the presidential address on "American Obstetrics and Gynecology: A Mature Specialty."

The American Society of Tropical Medicine, the American Academy of Tropical Medicine, and the National Malaria Society are meeting conjointly for the first time December 2-4, in Atlanta, Georgia. The meeting will feature a symposium on "The Virus Diseases in will hold its annual meeting at Columbia secrecy of scientific research and its rethe Tropics" on the afternoon of Decem- University, January 29-31. Programs are sults, and by K. C. Chu, who emphasized

A Conference on Methods in Philosophy and the Sciences will be held December 7 at the New School for Social Research, 66 West 12th Street, New York City. The morning program will include: "History and the Philosophy of History," Maurice Mandelbaum, Dartmouth College; and "The Great His- minutes will be allowed at the meeting torian and the Meaning of Truth," for the oral presentation of a contributed Kurt Riezler, New School for Social Research. The afternoon session on "American Public Policy on Science" will be a Symposium on the Report of the President's Scientific Research Board, and will include the following: "Selig Hecht, 1892-1947," Leslie C. Dunn, Columbia dent's Scientific Research Board; "Scien-P. W. Bridgman, Harvard University; and "Science and Secrecy," James R. Newman, Yale University Law School. A discussion from the floor will follow invited to attend. Registration fee is \$1.00.

ety will hold its 54th annual meeting Society of Mechanical Engineers. at the University of Georgia, Athens, December 29-31, in conjunction with the annual meeting of the Mathematical ciation will hold its 43rd annual conven-Association of America. The sessions of tion at the University of Georgia. Athens. the Society will begin at 2:00 P. M. June 14-16, 1948, making the first time Monday and continue through Wednes- the Association has met at a school farday. The Association will meet Thursday ther south than the University of Kenmorning and afternoon. P. M. Morse, tucky. About 600 leading dairy scientists Massachusetts Institute of Technology, are expected to attend the meeting. The will deliver the 21st Josiah Willard Gibbs Association's president is Paul H. Tracy, Lecture on "Operational Research," on professor of dairy manufactures, Univer-Monday at 8:00 P. M. On Tuesday sity of Illinois. at 2:00 P. M., E. F. Beckenbach, University of California at Los Angeles, will matics, the title and name of the speaker annual meeting August 30-September 1 Council on Tuesday evening. The An- Natural Science, Astronomical, Meteoro-

State Physics, and the Committee representing the nascent Division of Fluid Dynamics. Those desiring to present papers at the meeting should submit titles and abstracts (not over 200 words) in duplicate to Karl K. Darrow, secretary, American Physical Society, Columbia University, New York 27, New York, before December 9. A maximum of 10

The 10th annual Midwest Power Conference, sponsored by Illinois Institute of Technology, will be held April 7-9, 1948, at the Sheraton Hotel, Chicago, with Stanton E. Winston, of the Institute University; "The National Planning of staff, as director. Cooperating institutions Science," Robert F. Steadman, Wayne are: Iowa State and Michigan State University, and staff member, Presi- Colleges; Northwestern and Purdue Universities; the Universities of Iowa, Illitific Freedom and National Planning," nois, Michigan, Minnesota, and Wisconsin; the Illinois section of the American Society of Civil Engineers; Illinois chapter of American Society of Heating and Ventilating Engineers; Western Society both sessions. All those interested are of Engineers; Engineers' Society of Milwaukee; and the Chicago sections of the American Institute of Electrical Engineers, American Institute of Mining and The American Mathematical Soci- Metallurgical Engineers, and American

The American Dairy Science Asso-

The Chinese Association for the speak on "Convex Functions." There Advancement of Science (formerly the will also be an address on applied mathe- Science Society of China) held its 25th to be announced later. The Board of at the Academia Sinica and National Trustees will meet on Monday, and the Medical College of Shanghai, with the nual Business Meeting and Election of logical, Geographical, Zoological, and Officers will be held Wednesday at 9:30 Anatomical Societies of China participating. H. C. Zen presided over the meeting. The program included addresses The American Physical Society by W. H. Wong, who spoke against the ber 3. All those interested in tropical now being arranged by the Division of the utilization of scientific knowledge for various sections; and discussions among scientific undertakings with the necessary Ohio State University, secretary-treasthe members on "Atomic Energy and budgets to carry it out to the fullest ex- urer. Robert Parker, College of Medicine, Peace" and "Improvement of Scientific tent. The discontinuation of the YVA Western Reserve University, was elected Education in China."

The members of these 7 Chinese scientific societies wish to place on record their unanimous opinion with respect to (1) the control of atomic energy and (2) the development of scientific research in China:

(1) "We feel that the probing into the mysteries of atomic energy, like scientific research work in all other fields, should have as its objective the promotion of human welfare. The atomic nucleus was successfully cracked at a time when the democracies were locked in a life-anddeath struggle with the totalitarian states. Ouite naturally it was taken advantage of in the making of weapons of war. This is a misfortune for atomic energy and also for scientific research. Now that the war has been concluded and the democracies are endeavoring to bring about world cooperation, it is our conviction that atomic research should be freed from its closely guarded secrecy to be directed toward the advancement of world peace and welfare of the human races. We object to the application of achievements in atomic research for the manufacture of bombs and other weapons and emphatically to the competition in, or secrecy attached to, such manufacture, which threatens the friendly ties among democratic countries and jeopardizes the freedom of scientific research. Therefore we unreservedly pledge our support to the stand of the Association of Science for Atomic Education and the Federation of American Scientists.

cannot hope suddenly to acquire a mature and 8 trustees. status in scientific work by the importation of a few instruments for atomic

project shortly after its inception is an consular to the Society of American Bacexample that we hope will not be re-teriologists, and Lloyd C. Ferguson, Depeated. If we want science to serve as an partment of Bacteriology, Ohio State important contributing factor in the re- University, member of the Policy Comconstruction of the nation, we believe it mittee. must be made to stand on firmer ground. Scientific development cannot be bought ready made, as some people thought half the annual meeting of its Board, October a century ago that it could be in the form 16, in the Engineering Societies Building, of firearms and gunboats."

#### Elections

United Engineering Trustees, Inc., at its annual meeting October 23 in the Engineering Societies Building, 29 West 39th Street, New York, elected J. Schuyler Casey, president, M. H. Treadwell Company, Inc., New York, as president; Gen. William H. Harrison, chief engineer, American Telephone and Telegraph Company, New York, and director, Procurement and Distribution Service, Office of Chief Signal Officer, Washington, D.C., as vice-president; Edward C. Meagher. assistant to the president, Texas Gulf Sulphur Company, New York, as vicepresident; Kurt W. Jappe, retired director of purchases, Hercules Powder Company, Wilmington, Delaware, as treasurer; James L. Head, Department of Mines, Chile Exploration Company, New York, as assistant treasurer; and John H. R. Arms was re-elected secretary.

At the 20th annual meeting of the Texas Archaeological and Paleontological Society, October 25, Cyrus N. been initiated to undertake research for Ray, Abilene, Texas, was elected presi- other government agencies. (2) "We Chinese as a race are still fac- dent for the 20th consecutive year; Tom ing starvation and other acute shortages N. Campbell, Austin, was elected vicein this atomic age, backwardness in the president: Earnest Wallace, Lubbock, development of science being one of the secretary-treasurer; and W. C. Holden, causes. The significance of scientific de- Lubbock, editor of publications. Other velopment lies in its power to raise pro- officers elected included Alex Krieger, portionately the standard of living. We Austin, Rupert N. Richardson, Abilene, have never before given sufficient and Joe Ben Wheat, Tucson, Arizona, emphasis to the fundamental sciences and as directors, 8 regional vice-presidents,

The Ohio Branch, Society of Amerstudies. We must lay the foundations first ican Bacteriologists, elected the folby the strengthening of the physical lowing officers at its Autumn Conference mittee functions more accurately. equipment for science education and by October 25 on the Ohio State University

peace; the presentation of papers in the long-range plan for the development of H. Weiser, Department of Bacteriology,

The Engineering Foundation, at New York, elected as officers for the coming year: A. B. Kinzel, vice-president. Union Carbide and Carbon Research Laboratories, Inc., chairman; L. W. Chubb, director, Westinghouse Research Laboratories, vice-chairman; Edwin H. Colpitts, formerly vice-president, Bell Telephone Laboratories, director; and John H. R. Arms, secretary. Newly appointed to the Executive Committee were: George L. Knight, formerly vicepresident, Brooklyn Edison Company: and Joseph W. Barker, president, Research Corporation.

#### **NRC News**

The name "Committee on Aviation Psychology" has been substituted for "Committee on Selection and Training of Aircraft Pilots" to designate a committee of the Division of Anthropology and Psychology which has conducted research in the field of aviation psychology since 1939. As in the past, the work of the Committee is supported with funds allotted by the Civil Aeronautics Administration, although sters have recently

The Committee has from its very beginning conducted research involving the maintenance as well as the selection and training of aircraft pilots. Among the more than 70 reports published by the Committee in the Technical Series, Division of Research, Civil Aeronautics Administration, there are many which are concerned with the psychological aspects of fatigue, accidents, air sickness, etc. The change in name, which has been under consideration for some time, has been made in order to describe Com-

The current research program of the extending adequate facilities and stable campus: Orton K. Stark, Miami Univer- Committee on Aviation Psychology, which living conditions to our teaching and re- sity, president; John Dingle, Department is largely concerned with air transport search personnel. What is more im- of Preventative Medicine, Western Re- pilots and, most particularly, with human portant, we should adopt a definite and serve University, vice-president; and H. factors in airplane accidents, includes research on the selection, upgrading, and Air Surgeon, Headquarters, Army Air term periods on a rotating basis. Main certification of pilots; studies of stall- Forces; and M. S. Viteles (chairman), duty of the Mission will be to supply to warning devices; psychological aspects of professor of psychology, University of interested individuals and agencies in instrumentation; and investigation of Pennsylvania. methods of training civilian and commercial pilots. Such research is being con- Fitts, Geldard, Hallowell, Lindsley, and ducted through The Ohio State Uni- Viteles, and Capt. Kellum and Lt. Col. versity, the American Institute for Tucker make up the Executive Sub-Research, the Educational Research committee. Corporation, and other agencies. The Executive Subcommittee will be pleased to consider proposals for grants-in-aid to research personnel working in universities and other institutions who are interested in carrying out investigations in the field of aviation psychology under the auspices of the Committee. Proposals should be grid," died in Stockholm September 26. submitted to: M. S. Viteles, Chairman, National Research Council Committee on Aviation Psychology, University of Pennsylvania, Philadelphia, Pennsylvania.

The present membership of the Committee includes: Brigadier Gen. Milton W. Arnold, vice-president, Operations & Engineering, Air Transport Association of America; Cdr. Norman L. Barr, Division of Aviation Medicine, Bureau of Medicine & Surgery, Navy Department; George K. Bennett (ex officio), president, Psychological Corporation; D. R. Brimhall, assistant to the Administrator for Research, CAA; Paul M. Fitts, chief, Psychology Branch, Aero Medical Laboratory, Wright Field; Frank A. Geldard, professor of psychology, University of of Aviation Medicine, Bureau of Medicine & Surgery, Navy Department; Major Gen. Malcolm C. Grow, Air Surgeon, Army Air Forces; George E. Haddaway, editor, Southern Flight, Air Review Publishing Corporation; A. I. Hallowell (ex officio), chairman, Division of Anthropology and Psychology, and professor of anthropology, University of Pennsylvania; J. G. Jenkins, head, Department of Psychology, University of Maryland; Capt. Wilbur E. Kellum, U. S. Navy, School of Aviation Medicine, Pensacola, Florida; Peter C. Kronfeld, associate professor of ophthalmology, and director of education, Illinois Eye and Ear Infirmary, University of Illinois; Jerome Underwriters; Donald B. Lindsley, professor of psychology, Northwestern University; W. R. Miles, professor of psychology, School of Medicine, Yale small one, headed by Earl A. Evans, Jr., University; C. L. Shartle, professor of Lt. Col. Anthony C. Tucker, Office of the and engineers will be assigned for short-volumes of the Bibliography and index of

Cdr. Barr, Drs. Bennett, Brimhall,

## Recent Deaths

Erik Lysholm, 55, Swedish radiologist who produced the first "precision skull apparatus" and who also contributed the so-called "fixed" or "Swedish

Mrs. David R. Merrill, 52, died October 8 at Burlington County Hospital, Mt. Holly, New Jersey.

George W. Wilson, 57, dean, Marquette University Dental School, died in illness.

Clovis Vincent, 68, chief, Neurosurgical Services, Pitie Hospital, Paris, France, and a noted brain surgeon, died November 14.

fessor emeritus of anthropology, Yale of the Mission, stated that "an exchange School of Prehistoric Research, Washing- with the freedom that has always characton, D. C., was fatally injured November terized the relations between scientists in Virginia; Capt. B. Groesbeck, Division 15, when he was struck by an auto while our two countries, should result in subcrossing the road on Route 29, near stantial benefits not only to specialists in North Plainfield, New Jersey.

> William M. Malisoff, 52, director, Longevity Research Foundation, New York City, and formerly associate pro-Pennsylvania, and Brooklyn Polytechnic Institute, died November 16 at his New since 1934.

State release, the Mission staff will be a from geophysics to paleontology.

Great Britain information concerning current developments in such fields as organic chemistry, biochemistry, physics, engineering, biology, and agronomy, and to collect similar information on British developments for dissemination to government agencies and scientific societies in this country. Specifically, the Mission will also assist in facilitating exchange of scientific personnel, develop and continue close personal contact with government agencies and research institutions in the United Kingdom, answer inquiries about particular developments in Great Britain originating in this country, and stimulate exchange of reports of a scientific and technical nature. Such an arrangement was recommended by John R. Steelman. special assistant to the President, in his series of reports entitled Science and pub-Milwaukee November 11, after a long lic policy. The British have for some time maintained in the United States the British Commonwealth Scientific Office, which has proved extremely successful. In a letter to the Rt. Hon. Herbert Morrison, Lord President of the Council. London, dated October 30, Mr. Steelman, George Grant MacCurdy, 84, pro- in announcing the proposed establishment University, and retired director, American of ideas and information, in accordance the fields of science, medicine, and engineering, but to all citizens in both our Nations."

The Committee on Russian Literafessor of biochemistry, University of ture of the Geological Society of America has begun the compilation of a list of translations of geologic papers and books York home after a day's illness. Dr. from Russian into English—that is, a Malisoff had edited Philosophy of Science list of translations extant in manuscript form in the United States. The readers of Science are requested to send information concerning any such translations to the committee chairman, Ronald K. DeFord, Box 1814, Midland, Texas, or A Mission on Science and Tech- to Geological Society headquarters, 419 Lederer, chief engineer, Aero Insurance nology will soon be established in the West 117th Street, New York 27, New U. S. Embassy in London. According to a York. The word geologic is used here joint White House and Department of in its widest sense to extend inclusively

If information about translations of chairman, Department of Biochemistry recent publications is received soon psychology, The Ohio State University; University of Chicago. These scientists enough, it will be included in forthcoming geology exclusive of North America and search, the Bureau of the Census, and lations, and Mario Lewy Van Severen. the Bibliography of economic geology, other government agencies. subject to permission from proprietors of translations.

Laboratories, which sprang from the Natural History for Panama, November realization by the Office of Naval Re- 4. T. C. Schneirla, curator, Department search in 1946 of an urgent need for a of Animal Behavior of the Museum, who national center where facilities and heads the expedition, was accompanied staff would be available to develop and by Ernest Enzmann, research associate use new high-speed computing machines in zoology, Massachusetts Institute of in service to the field of applied mathe- Technology, and Robert Z. Brown, made up of representatives from interested government agencies and private organizations.

Within the new center are four separate laboratories: the Institute of Numerical Analysis, on the campus of the University of California at Los Angeles, which, under the auspices of the Office of Naval Research, will do research and training in mathematical fields best suited to the use and development of high-speed automatic digital computing machines, and also provide computing service for local groups; the Computation Laboratory, headed by Arnold N. Lowan, formerly technical director, Mathematical Tables

The carnivorous Army Ants will be the subject of a study by a field group The National Applied Mathematics which left the American Museum of in the dry season. A brood containing date. queens may prove to be another excep-

From the waste pulp of the coffee Project, and also underwritten by ONR, bean comes a new corn-substitute cattle annual meeting, December 9, Dallas, which will continue the work of the feed for milk production, developed Mathematical Tables Project and provide through the cooperative effort of agricula computing service for use by private tural technicians of the United States and industry, government agencies, and edu- El Salvador. Tests under specific condicational and research institutions; the tions have proved that the coffee pulp Engineering Laboratory, can be substituted, pound for pound, for headed by Churchill Eisenhart, for- corn as cattle feed for milk production. merly senior staff member, Statistical Coffee pulp is the fleshy covering of the Research Group, Columbia University, bean and is largely a waste product, and which will provide a consulting service although it has limited use as a fertilizer, tion, December 28-31, Albuquerque, on methods of statistical inference as its disposal has usually been a problem. applied to engineering and physical In recent years the potential value of sciences for government and private coffee pulp as a feed has been recognized agencies, and training in the theory of by Felix Choussy, Instituto Tecnologico, statistics; and the Machine Development El Salvador, and R. L. Squibb, formerly Laboratory, headed by E. W. Cannon, of the Inter-American Institute of Agristatistical engineering officer, Bureau of cultural Science. Studies regarding the Ships, which will develop and construct substitution of dried coffee pulp for corn the new computing machinery according in the ration of milk cows were conto the specifications set forth by the other ducted in El Salvador by Samuel H. laboratories, the Office of Naval Re- Work, Office of Foreign Agricultural Re-

chemist, and Louis Escalon, dairying technician, El Salvador. It has been found that the palatability of the pulp is increased by mixing it with banana leaves, molasses, or other feedstuff. Additional tests will be made at the U.S. Department of Agriculture's research center, Beltsville, Maryland, and at various other state experiment stations.

Marine life in the Bikini lagoon appears little changed by the atomic matics, has now been established as a graduate student of zoology, Swarthmore bomb radiations, according to the obdivision of the National Bureau of College. The group will spend 5 months servations of Leonard P. Schultz, Standards. The center is headed by on Barro Colorado Island in Gatun Lake curator of Fishes, Smithsonian Institu-John H. Curtiss, formerly director's and in the Darien country of eastern tion, who has just returned from Bikini assistant in applied mathematics at the Panama. The Army Ant derives its after taking part in the Bikini Scientific Bureau. The work of the new division, name from its highly military society; Resurvey carried out by the Navy Deconcentrating on mathematical statistics it moves in colonies of 65,000 and more partment in cooperation with the Army as applied to the physical and engineering in long, narrow columns sometimes and other government agencies. Dr. sciences, will be carried on with the ad- stretching out 300 yards. The ants Schultz explained that undoubtedly enorvice of an Applied Mathematics Council move in regular cycles traveling nightly mous numbers of fish and other marine for 17 days and resting for 20. When on organisms were killed by the bomb exthe move, they send out flanking columns plosion, but their places have been filled for scouting and food securing. The field by overpopulation pressure from outside group hopes to discover how the ant the immediate explosion area, with the colony queens are formed, and how and result that life seems about as abundant why the queen ants possess the ability to as ever. There was no observable sterility produce broods at regular intervals of 36 caused by the continued radioactivity, days throughout the year, all of these as various specimens were found spawning broods but one consisting of about 30,000 in normal fashion. Genetic effects or posnonreproductive workers; the remaining sible weaknesses from continued radiation brood consists of about 3,000 males born are impossible to discern at this early

#### Make Plans for—

American Academy of Pediatrics,

National Council of Geography Teachers, December 27-29, Charlottesville, Virginia.

American Society for Professional Geographers, December 27-30, Charlottesville, Virginia.

American Anthropological Associa-New Mexico.

American Astronomical Society, December 28-31, Ohio State University, Columbus, Ohio.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.