NEWS and Notes

A Memorial Service for Otis W. Caldwell, whose obituary appears in this issue, was held at the Church of the Redeemer, Yonkers, New York, on Sunday, December 7, at 4:00 P. M. Those participating in the service included Barclay Acheson, Kirtley F. Mather, Morris Meister, H. Otheman Smith, J. Wayne Wrightstone, and P. W. Zimmerman.

With regard to Dr. Caldwell's passing, the Executive Committee of ing statement:

In the sudden death of Dr. Otis W. Caldwell on July 5, 1947, the Executive Committee of the American Association for the Advancement of Science lost its member of longest service, and a colleague who had been a member of the Association continuously since 1900, a Fellow since 1902, and a life member since 1923. Very few persons have been members of the Association longer than Dr. Caldwell, and probably none has as thorough a knowledge of its hopes, plans, and operations as he had. He was vice-president of the Association for the Section on Education in 1925, General Secretary from 1935 until his death, and the principal connecting link between the Association's administrative officers and the 37 affiliated academies of science.

The Executive Committee shares the grief of Mrs. Caldwell and of other members of Dr. Caldwell's family at his passing, and will long cherish his memory as one of the foremost of the loyal men who have made of the Association a great factor in the advancement of science. And even after his many friends and associates shall have passed, the expanding effects Association will still be felt.

George A. Baitsell, Osborn Zoological Laboratory, Yale University, has recently cal Survey, has been appointed associate been appointed Colgate professor of biology and executive officer.

Edward C. Miller, formerly assistant professor of metallurgical engineering, Purdue University, has been appointed associate professor of chemical and metallurgical engineering, Wavne University College of Engineering.

Henry F. Donner, chairman, Department of Geology and Geography, and professor of astronomy, Western Reserve University, will be granted a leave of absence, beginning in February, to drive, with his wife, from the northern coast of Africa to the Lamont-Hussey Observatory in Bloemfontein in Orange Free State. On the way down, they will inspect various volcanoes, mountains, and particularly the Rift Valleys, where some geologists believe the continent is breaking in two. They will also visit the mountain Thaba 'Nehu, in South Africa, which is believed to have broken away from the Malute Range in Basutoland ages ago.

On his first visit to Africa in 1928-33, the Association has made the follow- Prof. Donner made a series of measurements of more than 1,100 binary stars which he had discovered in the southern constellations. On the coming trip, Prof. Donner expects to use the Observatory's 27-inch refractor to determine how far each star in the binary pairs he discovered has moved since 1933. He hopes to make another series of observations in 15 years in order to complete a final report which will provide information about the sizes and masses of the stars.

> Lincoln Constance, professor of botany and curator, Seed Plant Collections, University of California, is spending the academic year as visiting lecturer of botany, Harvard University. Until July 1, Prof. Constance is serving as acting director, and Robert C. Foster as acting curator, of the Gray Herbarium.

> Wellington D. Jones, professor emeritus, University of Chicago, recently spent two weeks with the Department of Geography at Syracuse University. His principal talks centered around the subject of "What Geographers Need to Know About Soils and Associated Land Use."

Orville L. Gilpin, paleontological technician, Chicago Natural History Museum, of his devotion to the high purposes of the has been appointed chief preparator of fossils in the Department of Geology.

Arthur David Howard, U. S. Geologiprofessor of mineral sciences at Stanford University. Dr. Howard assumes his new duties in January 1948.

Stanley S. Ballard, professor of physics and chairman, Department of Physics, Tufts College, has recently been appointed to the new office of the Secretary for Local Sections of the Optical Society of America for a two-year period.

Arthur Harmount Graves, curator emeritus, Brooklyn Botanic Garden, who is now living in Wallingford, Connecticut, will continue his work on the breeding of disease-resistant chestnut trees and on the nature of disease resistance, under a cooperative agreement with the Connecticut Agricultural Experiment Station. Dr. Graves will also furnish propagative material to the Station. The work is being sponsored also by the Connecticut Geological and Natural History Survey and the Division of Forest Pathology, Bureau of Plant Industry, Soils, and Agricultural Engineering, U. S. Department of Agri-

Harry S. Mustard, director, School of Public Health, Columbia University, has recently been made commissioner of public health for New York City.

Visitors to U.S.

Francis Hemming, of London, secretary to the International Commission on Zoological Nomenclature and a wellknown entomologist, will arrive in the United States on December 18. Mr. Hemming is coming, at the invitation of the Smithsonian Institution, to promote understanding and cooperation between American zoologists and the International Commission. He will address a meeting in the National Museum auditorium in Washington, D. C., on the evening of December 22 at 8:00 P. M., to which all interested zoologists and paleontologists are invited. He will also address a joint meeting of the several societies of zoologists meeting with the AAAS in Chicago at 3:30 P. M. in the Upper Tower Room of the Stevens Hotel on December 29 and a joint meeting of the Paleontological Society and Society of Vertebrate Paleontology at the Chateau Laurier, Ottawa, on the morning of December 31. Mr. Hemming is anxious to meet and confer with zoologists or groups of geologists panied by his wife, Mrs. Margaret F. W. Hemming, who is his personal secretary.

T. A. Stephenson, professor of zoology, University of Wales, and author of a comprehensive monograph on the British sea anemones, has been visiting American laboratories, accompanied by his wife, to gather information on marine ecology. Dr. Stephenson is currently holding an appointment as visiting professor of zoology at the Scripps Institution of Oceanography (University of California), La Jolla.

Grants and Awards

The Council of the Royal Society, England, has awarded Royal Medals to C. N. Hinshelwood and F. M. Burnet. Prof. Hinshelwood received the award in recognition of his distinguished work on the mechanism of chemical reactions from the simplest gas phase processes to the complexities of cell division; Dr. Burnet, for his distinguished work on bacteriophages, viruses, and immunity, and for his contributions to the study of as an ecological infectious disease phenomenon.

The following awards of medals have also been made by the President and Council of the Royal Society: the Copley Medal, to G. H. Hardy for his outstanding part in the development of mathematical analysis in England during the last 30 years; the Davy Medal, to Linus indicates that this decoration is one of C. Pauling for his distinguished con- the oldest in the world, dating back to tributions to the theory of valency and 1458. Dr. Bohr is the second Danish comfor their application to systems of biological importance; the Buchanan Medal, to Sir Edward Mellanby, for his distinguished researches on the physiology of nutrition, especially in relation to the causation of deficiency diseases; and the Hughes Medal, to J. F. Joliot for his distinguished contributions to nuclear physics, particularly the discovery of artificial radioactivity and of neutron emission in the fission process. Dr. Pauling, head. Division of Chemistry, California Institute of Technology, was unable to receive the medal in person December 1, but will soon leave for England, where he will be Eastman professor at Oxford University for the second and third terms.

tion, and formerly professor, University annual meeting in Ottawa, Canada, De- of the Graduate School by April 1. of Illinois, has been awarded the 1948 cember 29-31. Prof. Niggli, who plans to

at Washington, Chicago, Ottawa, and Perkin Medal of the American Section lecture at several universities in this perhaps other points. He will be accom- of the Society of Chemical Industry. Dr. country during January, is the second Balke, who will receive the medal at a person from another country to receive dinner in New York on January 9, is this honor, the highest that American honored for his research in chemistry and mineralogy has to offer for outstanding metallurgy which led to the development achievement in its science. of processes for the production and commercial utilization of tantalum and its sister element, columbium.

> Chester G. Fisher, president, Fisher Scientific Company, Pittsburgh, and of Eimer & Amend, New York, will receive the 1947 Pittsburgh Award, a bronze plaque, at a dinner, December 18, at the University Club, Pittsburgh. The award, made annually by the Pittsburgh Section of the American Chemical Society, will be presented "for outstanding contributions to chemistry in the Pittsburgh area." In 1902 Mr. Fisher founded the paratus, and laboratory chemicals.

> Walter J. Murphy, editor of Industrial and Engineering Chemistry and Chemical and Engineering News, publications of the American Chemical Society, recently received the honorary D.Sc. degree from Centre College.

Niels Bohr, Nobel Prize winner in physics, has been awarded the Order of the Elephant, highest decoration in Denmark. A dispatch from Science Service moner to receive it during the present

Zachry Institute of Human Development, New York, and Catherine Mackenzie, parent-child editor, New York Times, received jointly the fourth annual \$1,000 Lasker Award of the National Committee for Mental Hygiene at its 38th annual luncheon, November 13, at the Pennsylvania Hotel, New York. The award ology, physiology, and zoology. Candiwas given this year for "contributions dates must have completed requirements to popular adult education in mental for the Ph.D. degree or its equivalent, health, especially concerning parent-child Postdoctoral fellowships and scholarships relationships."

The School of Veterinary Medicine. University of Pennsylvania, has received a grant of \$75,000, in amounts of \$25,000 per year for three years, from the Grayson Foundation, Inc., for the study of equine infectious anemia. The grant will be used to further research in the development of improved methods of diagnosis, prevention, and treatment of the disease.

Fellowships

Antioch College, Yellow Springs, Fisher Scientific Company, which has Ohio, has announced the establishment of grown into one of the Nation's leading a fellowship for research in problems of suppliers of scientific equipment, ap-land use, available to an outstanding graduate in the field of forestry, agriculture, wildlife management, or conservation education. The fellowship is financed by the Hugh Taylor Birch endowment, and the research will be concerned with the development of Glen Helen. a 920acre tract given by Mr. Birch to Antioch College. Inquiries should be addressed to Kenneth W. Hunt, director of Glen Helen.

The Graduate School of Ohio State University has announced the availability of several scholarships and fellowships for the year 1948-49. The Elizabeth Clay Howald Scholarship, with an annual stipend of \$3,000, will be given to a person who has shown marked ability in some field of study and has in progress work, Lawrence K. Frank, director, Caroline the results of which promise to constitute important additions to our knowledge. Two Muellhaupt Scholarships in Biology, with annual stipends of \$1,800 to \$3,000 each, are offered to the candidates who are considered most likely to promote, by original research, one of the biological sciences, particularly botany, bacterifor study in a variety of fields are also available, their stipends ranging from Paul Niggli, Zurich, Switzerland, will \$1,800 to \$3,000 for a year, generally bebe awarded the Roebling Medal of the ginning July 1. Applications for all those Clarence W. Balke, Fansteel Corpora- Mineralogical Society of America at its mentioned must be filed with the Dean

Also available to graduate students are

arships, with stipends ranging from \$400 work, is being offered because a definite W. Eshbach, dean, Technological Into \$900, and several special endowed need has been evidenced in application of stitute. After the program and tours of Fellowships with stipends ranging from statistical methods to industrial experi- the laboratory, a private luncheon \$450 to \$1,000. In addition, all fees are ments. In charge of the course is George honoring Dr. Ipatieff was held in the dinremitted except matriculation and gradu- E. Hulse, head of scouting research, ing hall of the Northwestern University ation fees. University Fellows and Hercules Powder Company. Dr. Hulse Apartments. Brief congratulatory talks within this field are based on merit.

Ethyl Corporation has awarded 9 graduate fellowships in the fields of petroleum, automotive, and chemical research, which provide students with scholarship grants plus tuition. Thus far this year, the fellowships have been created at the University of Michigan (two), Princeton University, University of Tulsa, Wayne University, University of Oklahoma, Louisiana State University, Purdue University, and the University of Texas. A postdoctoral fellowship, the first of its kind offered by the company, has been established at the University of Cincinnati, for study under Robert A. Kehoe, director of the Kettering Laboratory and medical director of Ethyl Corporation. The fellowship program was established 10 years ago to stimulate and aid students who show promise in advanced industrial and engineering research. Recipients are not obligated to work for the company upon completion of their academic work, nor are they restricted as to their courses of study, except the petroleum, automotive, or chemical industry.

Colleges and Universities

The Department of Biology, Johns Hopkins University, has added the following men to its staff: Francis T. Haxo, Hopkins Marine Station Stanford University, as instructor in plant physiology; V. G. Dethier, formerly of the Department of Zoology and Entomology, Ohio State University, as associate professor to work in the field of sensory physiology of insects; and H. Bentley Glass, geneticist, formerly of Goucher College, as associate professor of biology.

offering a new extramural course this versity of Wisconsin; Robert K. Sum- istry building and a Metallurgical and year in "Application of Statistical Meth-merbell, chairman, Department of Chem-Chemical Engineering building. Also ods to Design of Experiments and Analy- istry, and Virgil C. Williams, chairman, under construction are two student

Scholars are selected on the basis of merit, will be assisted by Donald S. Villars, were made by Franklyn B. Snyder. irrespective of field, while Special Fellows head, Science Department, Jersey City president, Northwestern University: are for designated fields, but selections Junior College, who will give 10 of the Edwin F. Nelson, vice-president, Uni-Department, Haskell Foundation, E. I. V. Evans, professor emeritus of chemisdu Pont de Nemours and Company; try at Northwestern. Vernon Lewis, also of Du Pont: and W. L. Gore, research chemist in plastics at Du Pont's Arlington, New Jersey, Laboratory.

an anonymous gift.

Rensselaer Polytechnic Institute is now equipping a new nuclear chemistry laboratory to augment its nuclear science and engineering program, which will be opened to students of the Graduate School in February. The laboratory will provide facilities for training and research that the academic projects be related to in connection with the course in nuclear chemistry inaugurated by the Institute in September. H. M. Clark, assistant professor of physical chemistry, who spent last year at the Clinton Laboratories, Oak Ridge, directs the course.

several University Fellowships and Schol- new approach to industrial experiment of Northwestern University; and Ovid 14 lectures; John A. Zapp, Jr., Research versal Oil Products Company; and Ward

> "Spinning discs" are being used to test welds and steels in an interesting research program at Massachusetts Institute of Technology sponsored by the Union College, Schenectady, New Welding Research Council of the York, will expand its facilities for study- Engineering Foundation and directed by ing child behavior by constructing a new C. W. MacGregor, professor of applied wing to the present psychology building. Mechanics. In an armor-plated pit 40 The addition will include a child observa- inches in diameter and 9 feet deep these tion room, with extensive sound and steel plates are suspended on a flexible visual equipment, to add to the facilities steel drive shaft and rotated in a 30-inch for the scientific recording of the behavior vacuum at speeds up to 35,000 r.p.m. of children, and new classroom and office The vacuum serves to prevent generation space. The new wing is made possible by of heat, and when air is admitted, the whirling may be stopped when desired. Under such high speeds the material flows toward the edges, thickening the discs at the perimeter. According to W. Spraragen, director of the Council, this method, when perfected, will find valuable use in testing materials and welds at extremes of temperature, and the results may ultimately be applied in bridge building, ship building, and wherever steel is used at low temperatures.

Illinois Institute of Technology has launched a \$15,000,000 development and expansion program which will transform its Technology Center campus into The Technological Institute of a functionally planned study and resi-Northwestern University has opened dential area for 10,000 persons, covering a new laboratory for the teaching of the 100 acres from 31st to 35th Streets, catalytic and high-pressure processes in and from Michigan Avenue to the New chemistry, which is named in honor of York Central Railroad tracks. The Vladimir N. Ipatieff. The laboratory was architecture was created by Ludwig Mies officially opened November 22, on the van der Rohe, chairman of the In-80th birthday of Dr. Ipatieff. The princi- stitute's Department of Architecture. pal speaker for the occasion was Robert Three buildings have already been com-E. Wilson, chairman of the Board, Stand- pleted and are in use: a Metals Research ard Oil Company of Indiana. Other building, a wing of the Engineering speakers included Kenneth M. Watson, Research building, and Alumni Memorial The University of Delaware is professor of chemical engineering, Uni- Hall. Now being completed are a Chemsis of Data." This course, a relatively Chemical Engineering Department, both dormitories. Fifty-nine additional aca-

demic, laboratory, campus, and housing paper are observed with the naked eye, mental Station in charge of the Chemical research.

Development of an electronic computer for crystal structure analyses, utilizing X-ray diffraction data, is the subject of a two-year research project being carried on by the Auburn Research Foundation in collaboration with the Department of Physics, Alabama Polytechnic Institute, under contract with the Office of Naval Research. The computer, devised by R. Pepinsky, research professor of physics, sums the twodimensional Fourier series representing the projection on a lattice plane of electron densities in a crystal unit cell, and presents the summation as a pattern on a cathode-ray tube. Some 850 Fourier terms can be added practically instantaneously by the device, and results of alternations of signs of any number of terms are observable just as rapidly.

A contract with the Foundation for X-ray diffraction studies on piezoelectric crystals has been renewed by the Army Signal Corps. This program is based on a grid-controlled, fine-focus X-ray tube, also developed by Prof. Pepinsky, which can be periodically pulsed in synchronism with an oscillating crystal and at any desired phase with the oscillations, thus providing a diffraction stroboscope.

Industrial Laboratories

At the Eastman Kodak Research Laboratories, David L. McAdam has made a new estimate of the number of separate colors the human eye can distinguish in daylight. Dr. MacAdam estimates that there are about 250 distinguishable colors in the spectrum, plus 10,000 distinguishable tints of spectral colors and 7,000 additional colors. like purple, which do not resemble any spectral colors. He pointed out that 17,000 distinct colors of equal brightness are detectable with a precise optical instrument. To this figure, he has added the

structures will be erected over a five-year roughly 50 per cent more colors can be Department laboratories and general period. Included in this giant plan are distinguished by the eye than by the service facilities of the Station, and since buildings for Mechanical Engineering, finest optical means. Under similar 1946 administrative director of the De-Civil Engineering and Mechanics, Electri- favorable conditions, only about 500 partment, retired at the end of November. cal Engineering and Physics, Archi- distinct shades of gray, ranging from Dr. Tanberg, who began his career with tecture, an Institute of Gas Technology, black to white, can be detected. When the company as a stenographer in 1910, is and two research laboratories for the color is introduced, each shade of gray being succeeded by M. M. Brubaker, Armour Research Foundation. When in the middle range of the scale of about former laboratory director at the Station. completed, the Technology Center will 500 shades between black and white is At the same time P. L. Salzberg will take be one of the Nation's most modern expanded up to 17,000 times. This means over Dr. Brubaker's former duties. Both centers of technological education and that in the current change-over from of the latter have been with Du Pont for black-and-white to color photography, approximately 20 years. Kodak researchers working for superior reproduction of color in pictures must Meetings contend with an increase of from 500 to several million distinguishable differences.

> S. B. Penick & Company, in furtherpossible line of basic materials for the pharmaceutical, wholesale drug, and allied industries in this country and in the export field, has completed arrangements to acquire the New York Quinine & Louis, Missouri. S. B. Penick & Company's present plans call for conestablished lines.

best satisfy physiologic requirements for nitrogen balance.

chemist, Organic Section, Research De- at partment, Calco Chemical Division, (Science, October 24, p. 390) will witness American Cyanamid Company, Bound an interesting demonstration by Ralph Brook, New Jersey, has been appointed T. Overman, senior research chemist at

fact that when large pieces of colored 1946 director of the Du Pont Experi- some leaves will be soaked in a solution of

George Washington University and the Carnegie Institution of Washington were hosts November 13-15 to a ance of its policy of providing the widest group of theoretical physicists who met to discuss the general subject of gravitation and electromagnetism in relation to the general theory of relativity. This conference was the 10th of a series which started in 1934 and which have been held Chemical Works, Inc., which was estab- annually except for war years. The lished in 1885 and manufactures and purpose of the conference is to promote distributes a broad line of medicinal raw thinking on, and discussion of, the materials. Its headquarters and manu- unsolved problems in theoretical physics. facturing plants are maintained in Brook- This year's discussions centered on the lyn, and a branch house is located in St. difficulties inherent in unified field theories, the size of the universe, the proper interpretation of the red shift, tinuation of the New York Quinine & and whether there is a correlation between Chemical Works' business along its the rotation of celestial bodies and their magnetic fields. Out-of-town participants included: H. W. Babcock, Mt. Wilson Interchemical Corporation, through Observatory; Gregory Breit, Yale Uniits Biochemical Division, has renewed versity; Charles Critchfield, University of its annual grant of \$25,000 to the Hektoen Minnesota; Richard Feynman, Cornell Institute for Medical Research, Cook University; Leopold Infeld, University of County Hospital, Chicago. This grant is Toronto; H. P. Robertson, California for the support of research concerned with Institute of Technology; M. Schwarzintravenous amino acid therapy and child and John Wheeler, Princeton Uniwith the role of individual amino acids in versity; Julian Schwinger, Harvard Unihuman metabolism. One of the main versity; Edward Teller, University of objectives of the research program to be Chicago; Robert Oppenheimer and pursued is the formulation of an amino Herman Weyl, The Institute for Adacid mixture to be given by vein that will vanced Study, Princeton, New Jersey.

Those attending the Conference on the Use of Radioactive Isotopes in Robert S. Long, assistant chief Agricultural Research December 18-20 Alabama Polytechnic Institute assistant director of the Organic Section. Clinton National Laboratory, of how atomic energy affects plants and animals. Arthur P. Tanberg, from 1921 to A rose with an open flower, a bud, and

country on this topic.

A symposium on "Modern Instrumental Methods of Analysis," sponsored by the Minnesota Section of the American Chemical Society and the Institute of Technology, University of Minnesota, will be held March 22-24, 1948. Further details will be announced Congress. when available.

Pathology will hold its second annual Chicago. The speakers will include: Carl Waldron, University of Minnesota; B. O. Seattle; Edward Stafne, Mayo Clinic; Ohio State University; Barnet Levy, Columbia University; Herman Becks, University of California; and Myron Aisenberg, University of Maryland.

The Academy will cooperate with the New England Society of Oral Surgeons and the Seminar of Oral Medicine in sponsoring a new monthly periodical, starting in January and entitled Journal of Oral Surgery, Oral Medicine, and Oral Pathology, which will be published by the C. V. Mosby Company, St. Louis, and which will replace the Oral Surgery section of the American Journal of Orthodontics and Oral Surgery. Kurt Thoma, president of the Academy, will be editor-in-chief and editor for the New England Society of Oral Surgeons; Herman Becks will be editor for the Seminar of Oral Medicine; and Hamilton Robinson will be editor for the Academy.

gress will be held in South America nations, responding to the invitation of the United States or Canada who pos-

The Florida Academy of Sciences The American Academy of Oral held its 12th annual meeting at the Florida State University, Tallahassee, meeting February 8 at the Hotel Stevens, November 21-22. Seventy-three papers were presented: 24 in biology, 16 in physics, 8 in bacteriology, 13 in the social A. Thomas, Washington University, sciences, and 12 on general topics. Officers elected for the coming year are: George Carl A. Schlack, Naval Medical Research F. Weber, University of Florida, presi-Institute; Hamilton B. G. Robinson, dent; G. G. Parker, U. S. Geological Survey, Miami, vice-president; and C. S. held in San Francisco November 7-8 a Washington University. St. Louis; Irving Nielson, Florida State University, secre- scientific program was presented and Glickman, Tufts College Dental School; tary-treasurer. Elected as chairmen of officers elected for the coming year. Henry Goldman, Boston; Lester R. Cahn, the various sections were: John J. Davis, Mayo Soley, San Francisco, is the new biological; A. A. Bless, physical; and president; Myron Prinzmetal, Los Ange-Cyril W. Burke, social. Robert B. les, vice-president; and Helen Martin, Campbell continues as the Academy's Los Angeles, secretary-treasurer. The representative on the AAAS Council.

> ing 7 papers at their own meeting, mem- Los Angeles; and Lowell Rantz, San bers attended a number of the section Francisco. sessions of the senior academy.

Elections

Ccmmission was established as an tered by the Medical Fellowship Board almost autonomous division of the Union of the NRC since 1922, will again be Internationale Contre le Cancer at the available for the year 1948-49. These Fourth International Cancer Research fellowships, supported by grants from the Congress held in St. Louis, September Rockefeller Foundation, are designed to 2-7. The Commission was set up by provide opportunities for training and exunanimous vote of representatives of the perience in research in all branches of A Pan-American Engineering Con- 39 nations present. Twenty-one other medical science. They are open to citizens

radioactive phosphorus and the radio- late in 1948 or in 1949, and it is hoped transmitted by the U. S. Department of activity in various parts of the plant that every country in this hemisphere State, expressed great interest, and it is measured. According to Dr. Overman, will participate. At a meeting this fall of expected that the number of member the bud should be practically the only the Executive Board of the Engineers nations in the Commission will soon be part to take up the activity. For his Joint Council Committee on International increased. Each nation has only one animal experiments white rats will be Relations, J. S. Thompson, McGraw-Hill representative on the Commission, and used. With these he will show that Book Company, was appointed to repre- all representatives have equal voting radioactive iodine, when injected into sent the Council at a planning meeting power. Meetings will be held once a year, the animal, localizes in the neck, and which was held in Lima, Peru, November never consecutively in the same country. that, following injection of radioactive 28. Participation in the Congress will be The Commission aims to promote interpotassium into the blood of an animal, recommended to all constituent societies national cooperation in cancer research the potassium finds its way almost ex- of the Joint Council, including the Ameri- which is defined as all efforts to advance clusively to the red cells. The forthcoming can Society of Civil Engineers, American knowledge of cancer by clinical, expericonference represents the first in this Institute of Mining and Metallurgical mental, and other means. It does not in Engineers, American Society of Mechaniany way replace the much larger Intercal Engineers, American Institute ct national Cancer Research Congress which Electrical Engineers, and American In- will continue to meet in different parts stitute of Chemical Engineers. Canadian of the world at intervals of about three engineers will be invited to participate years. The following Executive Comthrough the Engineering Institute of mittee of the Commission was elected, Canada. Bogota, Colombia, has been each member having an alternate to act suggested as the place for the first for him if necessary: Ignacio Millan (chairman), Avenida Vera Cruz 69, Mexico, D. F., Alternate, F. Leborgne (Uruguay); E. V. Cowdry (U.S.), Alternate, W. U. Gardner (U. S.); V. R. Khanolkar (India), Alternate, Tu-Shan Yung (China); J. H. Maisin (Belgium), Alternate, A. Lacassagne (France); and A. Haddow (England), Alternate, J. Engelbreth-Holm (Denmark).

> At the first annual meeting of the Western Society for Clinical Research Council of the Society consists of Paul The Junior Academy of Sciences held Aggeler, San Francisco; Norman David, a one-day session in connection with that Portland; Daniel Green, Seattle; Hans of the senior group. In addition to present Hecht, Salt Lake City; John E. Peterson,

NRC News

Fellowships in the Medical Sciences. An International Cancer Research similar to those which have been adminissess an M.D. or a Ph.D. degree and are of these funds was designated for the sup- and periodontal diseases," Western Renot yet professionally established.

available through a grant from the Na- Sciences. As more and more dental proj- tory efficiency," Tufts College Dental Inc. The first group, open to applicants evident that a qualified research dentist principal investigators. who hold either the Ph.D. or M.D. degree, was necessary as a consultant. The Direcis intended to provide opportunities for tor of the Medical Sciences Division, special training and experience in the ONR, requested such a consultant from addressed to the Office of Naval Research, study of virus diseases. The second group, the Dental Division, Bureau of Medicine Navy Department, Washington, D. C. open only to graduates in medicine who and Surgery, and in February 1946 a have completed one or more years of hos- naval dental officer qualified in research pital experience in clinical surgery and was ordered, in an additional duty status, are planning a career in orthopedic sur- to the Medical Sciences Division. On July gery, is designed to provide opportunities 7, 1947, a Dental Branch was established for training and research in those basic within the Division, with this officer medical sciences which will be of particu- acting as head. lar value in furthering progress in the field of orthopedic surgery.

A series of fellowships in anesthesiology has been established through a grant from the American Society of Anesthesiologists. These fellowships are offered with a view to fostering a closer union between the clinical practice of anesthesiology and the fundamental disciplines on which anesthesia rests. Applicants must hold the M.D. degree and must have completed one or more years of hospital experience as intern or resident.

The Medical Fellowship Board has also under its jurisdiction a number of fellowships of senior grade in internal medicine (Welch Fellowships), epidemiology, clinical neurology, orthopedic surgery, pediatrics, and virus diseases, for individuals of proven research ability.

Fellows will be appointed at a meeting of the Board early in March 1948. To receive consideration at this meeting, applications must be filed on or before January 1. Appointments may begin on any date determined by the Board.

For further particulars, address the Secretary of the Medical Fellowship Board, National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D. C.

Funds for the Office of Naval Research, created by Public Law: 588, ity of saliva as related to dental caries," lusca) (194). signed by the President on August 3, 1946, Georgetown University Dental School, were appropriated for the pursuit of W. C. Hess and E. Everett, principal in- to validate Lachinus Burmeister, 1839 scientific research having importance to vestigators; (9) "Investigation of salivary (type A phis roboris Linnaeus, 1758) and

to the Division to the Dental Branch for greater confusion than uniformity: the fiscal year 1949. This amount was later revised by the Director to 5 per cent use of Stephanurus Diesing, 1839 (type and included the fiscal year 1948.

tion," Cornell University, C. M. McCay, principal investigators; (2) "Use of germfree animals in the study of dental caries," of factors influencing microorganisms of Dental School, J. L. T. Appleton, principal investigator; (4) "Study of dental casting materials," University of Michigan, Norris O. Taylor, principal investigator; (5) "Hormonal effects on oral hard "Bacteriemias resulting from tooth exnational security. The greater percentage ammonia and its relation to dental caries Cinara Curtis, 1835 (type Aphis pini

intended for recent graduates who are port of basic research in civilian institu- serve University, J. P. Muntz, director; tions, universities, and industrial labora- (10) "Influences of dietary protein on In addition to these fellowships, the tories. By the beginning of 1947 over 200 dental caries," Massachusetts State Col-Medical Fellowship Board administers research projects were being supported, lege, Julian O. Holmes, principal investitwo groups of research fellowships, made some of them being in the Dental gator; (11) "Determination of masticational Foundation for Infantile Paralysis, ects were submitted to ONR, it became School, J. T. O'Rourke and R. S. Manly,

> For further information concerning the dental program communications may be

In pursuance of the provisions of the "Plenary Powers" Resolution adopted by the International Congress of Zoology at Monaco in March 1913, notice is hereby given that the International Commission on Zoological Nomenclature has received the undermentioned appli-A memorandum from the Director of cations for the suspension of the Règles the Medical Sciences Division to the staff Internationales on the ground that their assigned 4 per cent of the funds available strict application would clearly result in

- (1) Class Nematoda: to validate the S. dentatus Diesing, 1839) (188).
- (2) Class Insecta, Order Collem-At present some 14 universities and bola: to validate the undermentioned institutions have submitted proposals for generic names and to designate as dental research to ONR, and, of these, the types the species noted in parentheses: following have been recommended for Podura Linnaeus, 1758 (P. aquatica approval: (1) "Dietary and other factors Linnaeus, 1758). Tomocerus Nicolet, concerned in mouth and tooth deteriora- 1842 (Macrotoma minor Lubbock, 1862) (199); Hypogastrura Bourlet, 1839 (Achorutes viaticus Tullberg, 1872); Noanura MacGillivray, 1893) (Achorutes muscorum University of Chicago, J. R. Blayney, Templeton, 1835) (303); Anurophorus director; (3) "Recognition and evaluation Nicolet, 1842 (A. laricis Nicolet, 1842) (304); Dicyrtoma Bourlet, 1842 (Sminthe mouth," University of Pennsylvania thurus fuscus Lucas, 1842); Dicyrtomina Borner, 1903 (Podura minuta Fabricius, 1783) (305).
- (3) Class Insecta, Order Lepidoptera: to determine the correct specific name of the species commonly known as and soft tissues," Columbia University, "Argynnis adippe" Linnaeus, 1761 (79); E. Ziskin, principal investigator; (6) to determine the identity of Papilio podalirius Linnaeus, 1758 (183) and traction and scaling," Tufts College, J. P. Papilio iris Linnaeus, 1758 (184); to Lazansky, principal investigator; (7) validate Papilio aristolochiae Fabricius, "Relation of vitamin C in inflammatory 1775 (186); to suppress the name Papilio conditions of the gingivae," Georgetown ajax Linnaeus, 1758 (192); to validate University Dental School, W. C. Hess, Porina Walker, 1856, and to suppress principal investigator; (8) "Anylotic activ- Porina d'Orbigny, 1853 (Phylum Mol-
 - (4) Class Insecta, Order Hemiptera:

Nysius Dallas, 1852 (type Lygaeus thymi of Mytilus Linnaeus, 1758 (193). Wolff, 1854) (181) and Fulgora Linnaeus, 1767 (type Cicada laternaria Linnaeus, cera acuta Rafinesque, 1831 as the type 1758) (162).

- (5) Class Insecta, Order Coleoptera: to validate Rhantus Stephens, 1835 (type Linnaeus, 1758 (type E. naucrates Colymbetes pulverosus Stephens, 1838) Linnaeus, 1758) (156). (171); Rhina Latreille [1802-03] (type Curculio barbirostois Fabricius, 1775) and type of Colymbus Linnaeus, 1758 (78). . Rhina barbicornis Latreille, 1804 (202).
- Classification (191); to validate Chlorops List," published about 1840 (196). Meigen, 1803 (type Musca pumilionis
- the relation between Endamaeba and items will be published in the Bulletin
- A plysia Linnaeus, 1767 (type A. should be addressed to the Secretary to depilans Linnaeus, 1767) and Tethys the International Commission on Zoo-Linnaeus, 1767 (type T. leporina Lin- logical Nomenclature, Francis Hemming, Inc. naeus, 1767) (22); to designate Venus 83 Fellows Road (Garden Flat), London, verrucosa Linnaeus, 1758 as the type of N.W. 3, England. Venus Linnaeus, 1758 (189) and Bulla ampulla Linnaeus, 1758 as the type of Bulla Linnaeus, 1758 (190).
- stella Lonsdale, 1839 (type F. fenestella rate of \$10 per year. The Scientific Lonsdale, 1839) (154).
- the use of Echinocyamus van Phelsum. Sir Wallace Akers, director of research, 1774 and Fibularia Lamarck, 1816 (prior I. C. I., and formerly director of atomic to Lambert 1891) (318); to designate as energy research, Department of Scientific Grav. 1825 (S. canaliferus Lamarck 1826): Industrial Research; Sir Alfred Egerton. Echinocardium Gray, 1825 (E. cordatus professor of chemical technology, Imperial Pennant, 1777); Schizaster L. Agassiz College of Science and Technology; Sir 1836 (S. studeri L. Agassiz, 1843); Moira Alexander Fleming, professor of bacteri-A. Agassiz, 1872 (Spatangus atropes ology, University of London; R. S. Hut-Lamarck, 1816); and Brissus Gray, 1825 ton (secretary), formerly professor of (Spatangus brissus var unie coloreske, metallurgy, University of Cambridge; and 1778) (317); also Phyllacanthus Brandt, Sir Edward Salisbury, director of Royal 1835 (P. dubius Brandt, 1835) and Botanic Gardens, Kew. Paul Rosbaud is Strongylocentrotus Brandt, 1835 (Echinus editor, and D. R. Rexworthy is deputy drøbachiensis O. Fr. Müller, 1776) (319); editor. The journal covers the wide field historic sea shells, now at the American to validate Archaeocidaris M'Coy, 1844 of general scientific research and the appli- Museum of Natural History, was recently (type Cidaris Urii Flemming, 1828) cation of that research work in the general uncovered during a three-month expedi-(320).

- (12) Class Gastropoda: to fix Pleuroof Pleurocera Rafinesque, 1818 (83).
- (13) Class Pisces: to validate Echeneis
- (14) Class Aves: to determine the
- (15) Suppression of books: to sup-(6) Class Insecta, Order Diptera: press Zimmermann 1777, Zoologiae geoto determine the correct specific trivial graphiacae for nomenclatorial purposes name of the "Buffalo Fly" (195); to (182); to suppress the new names of birds suppress certain of the generic names and mammals in the recently discovered proposed by Meigen, 1800, Nouvelle pamphlet known as the "Hildesheim

Zoologists wishing to comment on any Bjerkander, 1778) (197); Calliphora of the above applications are particularly Robineau-Desboidy, 1830 (type Musca requested, when communicating with the vomitoria Linnaeus, 1758) (201); and, if Commission, to quote the file number necessary, the emendation to Phleboto- which appears in parentheses at the end mus of Flebotomus Rondani, 1840 (169). of each entry in the foregoing list. Full (7) Phylum Protozoa: to determine particulars in regard to all the above Entamoeba (reference Opinion 99) (185). of Zoological Nomenclature. All communi-(8) Phylum Mollusca: to validate cations in regard to the above cases

A new British journal of science called Research appeared in October and (9) Class Bryozoa: to validate Fene- will be issued monthly at a subscription Advisory Board is headed by Sir John

Linnaeus, 1758) (174); to validate tilus edulis Linnaeus, 1758 as the type to help fill the gap left by the postwar lack of German scientific publications. The American agent for Research is Interscience Publishers, Inc., 215 Fourth Avenue, New York 3, New York.

> A Metropolitan Long Island Group of the New York Section of the American Chemical Society, comprising chemists and chemical engineers of Brooklyn, Oueens, and Long Island, has recently been established. The group was originally organized in 1945 as the Metropolitan Long Island Chemical Association to meet a need created by the area's rapidly growing importance as a center of chemical industry and chemical education. Officers elected for the group are: Harold A. Horan, St. John's University, chairman; Joseph Mattiello, Hilo Varnish Corporation, chairman-elect; Walter I. Smith, New York Quinine & Chemical Works, treasurer: and Emmet S. Carmichael, Socony-Vacuum Oil Company, secretary. Named to the Board of Directors were: R. B. Killingsworth, Socony-Vacuum Oil Company: Samuel W. Gordon, Endo Products, Inc.; A. J. Nydick, patent attorney; and Bernard L. Oser, Food Research Laboratories,

The British Medical Association has appointed Grune & Stratton, Inc., Medical Publishers, 381 Fourth Avenue, New York 16, New York, as sole U. S. agents for all the Association's periodical publications. The journals include: British Medical Journal, published weekly, \$14 (10) Class Echinoidea: to validate Anderson and includes as members; per year; Abstracts of World Medicine, published monthly, \$13 per year; and Abstracts of World Surgery, Obstetrics and Gynecology, published monthly, \$9 types of the following genera the species and Industrial Research; Sir Charles per year. Quarterly journals, with uniform noted in parentheses: Spatangus Gray, Darwin, director, National Physical subscription rates of \$5.50 per year, are: 1825 (S. purpureus Müller, 1788); Ova Laboratory, Department of Scientific and Annals of the Rheumatic Diseases; Archives of Disease in Childhood; British Heart Journal; British Journal of Industrial Medicine; British Journal of Pharmacology and Chemotherapy; British Journal of Social Medicine; British Journal of Venereal Diseases; Journal of Clinical Pathology; Journal of Neurology, Neurosurgery, and Psychiatry; and Thorax.

A significant collection of predevelopment of industry. The journal was tion to the Peruvian Andes sponsored (11) Class Bivalvia: to designate My- suggested by a group of British scientists jointly by the Museum and Columbia

University and directed by Norman APHA for the presentation of more Museum. The purpose of the expedition was to gain information concerning the the Amazon jungles. Because the same strata underlying the nearly impenetrable jungles come to the surface in the Andes, where it is possible to examine and evaluate oil-bearing types of rock, the expedition centered on the Andes mountain tops between the elevations of 10,000 and 16,000 feet. The discovery of the colorful marine fossils, between 200,000,000 and 300,000,000 years old, adds proof that this mountain range once lay under a shallow sea-probably the same sea that covered Texas and Oklahoma. The research of the expedition will greatly contribute to the knowledge of one of the world's last great untapped oil reserves in the Upper Amazon Basin.

Interest in the formation of a of American Ethnology. Public Health Biology Section of the major fields of interest and activity inmammalogy, malacology, herpetology, be 'disturbed. Other biologists with while some of those in North Dakota were find themselves in the Unaffiliated Section acquired by the Indians. From several of gists have failed to join the American much as 10,000 years ago. Public Health Association because there appears to be no specific place for them have been found. According to Phillip within the existing compartmentalization Drucker, of the Bureau of American of the society.

Section in the Southern Branch of the archaeologically. Apparently some of the APHA has already been sent to the sites were fishing bivouacs used year after Governing Council of that organization. year by the Indians, as evidenced by a It seems desirable, however, to measure succession of deposits of camp debris. interest in the activation of a comparable Caps of volcanic ash indicate great Section on a national basis to provide the antiquity, possibly dating back to the December 29-31, Chateau Laurier, opportunity at the annual meetings of the closing days of the last ice age.

D. Newell, professor of geology, Colum- detailed papers and technical discussion some of the most promising sites in all bia University, and curator of Historical of mutual problems in public health these areas before flooding makes further Geology and Fossil Invertebrates at the biology than might be undertaken in the work impossible. general sessions of the Association.

As a preliminary step in this direction, geologic formations buried deep under it is requested that those interested in the formation of a Public Health Biology Section in the APHA indicate their approval of such a plan and their willingness to cooperate in its activation by writing to Justin M. Andrews, Communicable Disease Center, U. S. Public Health Service, Atlanta, Georgia.

> A series of river basin surveys in areas soon to be flooded by the building of dams is currently being undertaken by the Smithsonian Institution in cooperation with the Bureau of Reclamation, National Park Service, and the Corps of Engineers, U.S. Army. Director of the entire project is Frank H. H. Roberts, Jr., associate chief of the Institution's Bureau

This past summer more than 500 American Public Health Association has archaeological sites were found in the been expressed by individuals whose Missouri basin alone. These contained evidence of Indian villages, forts, burial volve the application of biological knowl- mounds, etc. Most productive from the edge and technique to public health archaeological standpoint were the Fort practice. These fields include medical or Randall Reservoir area in South Dakota, public health entomology, parasitology, where 93 such sites were recorded; the limnology, ichthyology, Garrison Reservoir area in North Dakota, mycology, in which 55 individual sites were reallergenic botany, and doubtless other corded; and areas in Wyoming and related specialties. Existing Association Montana, location of some 200 sites. Sections-mainly Laboratory, Epidemiol- Waldo R. Wedel, of the U. S. National ogy, and Engineering-provide proper Museum, who was in charge of the field affiliation for certain of the APHA work, indicates in his report that the biologists, and it is not proposed that any South Dakota sites cover a period of at of these currently satisfactory relations least 1,000 years of human occupancy, investigational or operational concerns inhabited before the pottery art was for lack of an Association category indica- the sites in Wyoming and Montana have tive of their professional interest. It is come artifacts of the so-called Yuma believed that some public health biolo- period, which may have flourished as

A petition for the formation of such a in that area, this basin is little known

An attempt will be made to excavate

The National Registry of Rare Chemicals, 35 West 33rd Street, Chicago, lists the following wanted chemicals: cyclohexadiene monoxide; pregnene-4-triol-17(B),-20-(B)-21-dione-3,11-monoacetate-21; pregnene-4-triol-17(B), -20-(B)-21-dione-3, 11-diacetate-20.21: pregnene-4-diol-17, 20-one-3-al-21; 17-hydroxy-11-desoxycorticosterone; $3-(\alpha)$ -acetoxy-11-keto-20-aminopregnane; maltobionic acid; 2-propenylpyridine; 3methylfuran; 2,4-furandicarboxylic acid; stigmasterol; 1-tartaric acid; strontium tetrasulfide hexahydrate; 5-chloropentene-1; 6-chlorohexene-1; 7-chloroheptene-1; embden ester; cyclooctadiene-1,5; cyclobutadibenzene; anthrafurane; benzoxanthene; and coniferin.

The archaeological and paleontological collections of Cyrus N. Ray, president, Texas Archaeological and Paleontological Society, made in Texas during the past 20 years, have been transferred to the ownership of the Museum at Texas Technological College, Lubbock. This collection includes a large number of old Texas human crania and vertebrate and other fossils, in addition to 16,000 stone artifacts, belonging to all Texan prehistorical periods as far back as the Folsom, Clear Fork, and Abilene cultures. This is the largest collection of the Clear Fork Culture in existence, and is the original and the type collection of a culture which was used in the Abilene. Texas, region during about the same period as that of Folsom man.

Make Plans for—

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

American Anthropological Associ-In the Columbia River basin 120 sites ation, December 28-31, University of New Mexico, Albuquerque.

American Mathematical Society, Ethnology, who was in charge of surveys December 29-31, University of Georgia, Athens.

> Archaeological Institute of America, December 29-31, New Haven, Con-

> Geological Society of America, Ottawa, Canada.