NEWS and Notes

James C. Peebles, dean of engineering at Illinois Institute of Technology, will retire at the end of August. Dean Peebles expects to prepare a history of Armour and Lewis Institutes (combined in 1940 to form Illinois Tech), with which he was associated for many years.

Cecil J. Watson, professor of medicine, University of Minnesota Medical School, will deliver the 6th Harvey Lecture of the current series at the New York Academy of Medicine on March 18. Dr. Watson will speak on "Urobilin and Stercobilin."

Gordon M. Kline, chief of the Organic Plastics Section, National Bureau of Standards, has recently assumed added duties as assistant chief, Division of Organic and Fibrous Materials.

George Tunell, formerly of the Geophysical Laboratory, Carnegie Institution of Washington, has been appointed associate professor of geology, University of California, Los Angeles.

Warner W. Carlson, formerly with the Department of Research in Pure Chemistry, Mellon Institute, has been made associate professor on the biochemistry staff of the Medical College of Alabama, Birmingham.

P. K. Stumpf, formerly associated with the Virus Laboratory, University of Michigan, and the Enzyme Laboratory, Columbia University, has been appointed assistant professor of plant nutrition in the College of Agriculture, University of California, Berkeley.

James F. Nance, formerly research project associate in the Department of Botany, University of Wisconsin, was appointed assistant professor of botany at the University of Illinois, beginning with the second semester of the current academic year. Taking the place of David L. Taylor, who died early in December, Dr. Nance will offer courses and develop the fields of plant metabolism and plant nutrition.

Earl A. Evans, Jr., head of the Mission on Science and Technology (London), recently represented U. S. science at the opening of the Pontifical Academy of Science in Vatican City.

V. G. Grove, professor of mathematics, Michigan State College, is visiting professor at the University of Puerto Rico during the present term.

J. E. Hobson, director of the Armour Research Foundation of Illinois Institute of Technology since 1944, became director of the Stanford Research Institute on March 1.

Albert L. Henne, professor of chemistry at Ohio State University, will be guest lecturer during the first term of summer school at the University of Colorado. Dr. Henne, an authority on the chemistry of fluorine compounds, will present a lecture course for graduate students in chemistry.

E. B. Stephenson, G. R. Irwin, Elias Klein, and **W. H. Sanders** have been appointed superintendent, associate superintendent, and consultants, respectively, in the newly established Mechanics Division at the Naval Research Laboratory, Washington, D. C.

John A. Luetscher, Jr., member of the Johns Hopkins Medical School faculty since 1940, will become associate professor of medicine at Stanford University in the fall.

Grants and Awards

Massachusetts Institute of Technology has just received from The Texas Company a grant of $250,000 which, according to the announcement, will be used "for long-range pure research in nuclear fission and related basic studies on the ultimate nature of matter and energy, to construct high-voltage equipment of advanced design, and to train scientists in nuclear theory and its application." Major part of the work will be carried on in the Laboratory for Nuclear Science and Engineering. Aside from the Institute's cyclotron and two electrostatic generators with capacities up to 4,000,000 volts which are already in operation, the 300,000,000-electron volt synchrotron, now being constructed, and a 12,000,000-volt electrostatic generator will be utilized.

The Permanente Foundation, Oakland, California, Department of Medical Research, has received a grant of $10,000 for expansion of its experimental and clinical studies on peptic ulcers and on the effectiveness of Entrogastron. These studies will be under the direction of Franz R. Goetzl, director of the Department.

The Cinchona Products Institute, New York City, has recently made available funds for research at the School of Medicine, Emory University, Atlanta, Georgia. The funds will be used for studies on the use of the combination of cinchona alkaloids and other drugs as curative agents in experimental avian malaria, by Arthur P. Richardson and Harry A. Walker, and on the effect on influenza virus of cinchona alkaloids, to be carried out by William F. Friedewald.

American citizens who contributed to the Allied war effort in various fields of scientific research and development were honored last month by the British Government. The British Ambassador, Lord Inverchapel, announced the awards. Vannevar Bush, wartime director of OSRD, was made a Knight Commander of the Civilian Division of the Most Excellent Order of the British Empire. Two college presidents, Karl T. Compton (MIT) and James B. Conant (Harvard), and Richard C. Tolman, of California Institute of Technology, former vice-chairman of NDRC, were designated Honorary Commanders of this Division. The King's Medal for Service in the Cause of Freedom went to: Bennett Archambault, scientific attaché to the U. S. Ambassador; J. C. Boyce, Department of Physics, New York University; H. M. Chadwell, Rockefeller Foundation; Hans T. Clarke, Department of Biochemistry, Columbia University; C. P. Haskins, director of the Haskins Laboratories, New York City; Alfred L. Loomis,

Tuxedo Park, New York; W. A. Noyes, Jr., Department of Chemistry, University of Rochester; I. I. Rabi, Department of Physics, Columbia University; Mina S. Rees, chief of the Mathematics Division, Office of Naval Research; C. G. Suits, vice-president and director of research, General Electric Company; Warren Weaver, Rockefeller Foundation; F. C. Bishopp, assistant chief, Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture; and Clark B. Millikan, professor of aeronautics and director of the Cooperative Wind Tunnel, California Institute of Technology.

The Superior Service Award of the U. S. Department of Agriculture has been presented to the Curly Top Project of the Division of Sugar Plant Investigations, Bureau of Plant Industry, Soils, and Agricultural Engineering, for breeding and introducing sugar beet varieties resistant to curly top for use in the intermountain West. E. J. Overby, Assistant to the Secretary of Agriculture, made the presentation at a banquet of the American Society of Sugar Beet Technologists in San Francisco, California, on January 14. Eubanks Carsner accepted the award on behalf of the 16 members of the project engaged in the research.

Robert H. Lowie, chairman, Department of Anthropology, University of California, Berkeley, has won the Viking Fund medal and prize for his contributions to the field of cultural anthropology. The medal and prize are awarded annually "for excellence of research in each of the fields of archaeological, physical, and cultural anthropology."

Fellowships

The U. S. Atomic Energy Commission has announced a $1,500,000 research fellowship program in the physical sciences basic to atomic research and development. The new program, covering such fields as physics, chemistry, metallurgy, mathematics, geology, and astrophysics, will complement the recently announced program for training qualified persons in the biological sciences and medicine (*Science,* February 6, p. 136). Both programs will be administered by the National Research Council.

Two groups of research fellowships are proposed, one at the postdoctoral level and one at the predoctoral level. During the first year not more than 30 fellows will be selected for the postdoctoral group, for one or two years of study. The predoctoral group wil consist of no more than 150 fellowships, awarded to candidates who have completed one or two years of graduate work and who have been accepted as candidates for the doctor's degree.

Six Graduate Research Fellowships in psychology and education and related fields are being offered by Pennsylvania State College, the stipends ranging from $1,000 to $2,400. Fellows will work in instructional sound motion-picture research under an Instructional Film Research project being directed by C. R. Carpenter. Qualifications include readiness to undertake and complete in one year research for the Ph.D. or Ed.D. thesis, one or two years of advanced graduate training, or the holding of either degree. Further information may be obtained from Dr. Carpenter.

Colleges and Universities

Tufts College has announced the establishment of an Institute for Applied Experimental Psychology. The new Institute, to be housed in North Hall, the new quarters of the Department of Psychology, will be operated in close relationship with the Department of Psychology and the Tufts Research Laboratory of Sensory Psychology and Physiology, which is this year celebrating the 10th anniversary of its establishment. The Institute's staff will work in relationship with the Engineering School, the Medical School, and other science departments.

The work of the Institute will center in (1) applied visual research, including the study of reading and basic research on the retina, (2) bioelectric phenomena of the muscle and nervous systems, (3) synthetic training devices for industry and the armed forces, (4) analysis of human motor skills, (5) preparation of training manuals for those who are to use equipment, as well as development of handbooks of psychophysiological functions, (6) statistical methods, with special reference to the design of investigations in applied experimental psychology.

Four internships in applied experimental psychology for qualified students who already hold the Ph.D. degree or its equivalent are available for the academic year 1948–49. Interns who meet special qualifications may be awarded the degree of Doctor of Science upon completing an assigned research thesis and passing appropriate examinations. These examinations will be conducted by the Institute staff and by visiting examiners from other universities.

Every effort will be made to assist interns to secure satisfactory living accommodations near the Institute.

Members of the staff include J. L. Kennedy, L. Carmichael, D. J. Crook, M. N. Crook, W. F. Dearborn, R. M. Gottsdanker, A. C. Hoffman, E. R. Keislar, R. C. Travis, N. Y. Wessell, and cooperating scientists in the fields of physics, mathematics, electrical engineering, physiology, and applied physical anthropology.

Further information may be obtained from John L. Kennedy, Director, Institute of Applied Experimental Psychology, Tufts College, Medford 55, Massachusetts.

The Poultry Division, Washington Agricultural Experiment Station, Pullman, has moved to new quarters which will provide expanded facilities for fundamental investigations in the fields of poultry nutrition and physiology of reproduction. Wilson Henderson (D.V.M., 1947, University of Toronto) and W. Donald Graham (Ph.D., 1945, University of Toronto) have recently been added to the staff.

A reference library of mineral photographs, expected to be the most complete in the world, is being assembled at Harvard's Berman Memorial Laboratory. According to the directors, Clifford Frondel and C. S. Hurlbut, Jr., the library "will make possible quicker and more accurate identification of minerals and minimize the need for many time-consuming and difficult chemical tests now required." At present about 1,500

mineral photographs are on file. Another phase of the project involves examination of the 15,000-odd synonymous names for minerals. A method known as "powder diffraction" is utilized in the mineral identification work. With this method a finely powdered sample of the mineral to be identified is exposed to an X-ray beam, the diffracted beams being "caught" on a photographic film. The developed picture shows a series of concentric dark rings which are not the same for any two materials. One camera in the Laboratory enables photographing of minerals heated to temperatures as high as 900° C.

At the 69th commencement of Case Institute of Technology on January 24, the honorary degree of Doctor of Humane Letters was conferred upon William E. Stevenson, president of Oberlin College, and the degree of Doctor of Science was awarded to Merle A. Tuve, director, Department of Terrestrial Magnetism, Carnegie Institution of Washington. President Stevenson gave the commencement address on "The Firing Line of Life."

The annual John Wyckoff Lectures at New York University College of Medicine were delivered February 16–17 by Bernardo A. Houssay, director of the Institute of Biological Research, Buenos Aires, and 1947 Nobel Prize winner in Medicine. Dr. Houssay spoke on "Carbohydrate Metabolism and Diabetes." This was the 10th series to be given under the John Wyckoff Lectureship, established by Phi Delta Epsilon.

Massachusetts Institute of Technology has announced a series of lectures on statistical methods, to be given by L. H. C. Tippett, chief statistician of the British Cotton Industry Research Association. From May 3 through May 7 Dr. Tippett will present five lectures on "Statistical Methods for Industrial Quality Control," emphasis being laid on the rationale of quality control and a knowledge of elementary algebra, simple averages, and elementary notions of probability being assumed. The five lectures to be given from May 10 through May 14 will cover "Statistical Methods for Technical Investigation and Experimentation," and knowledge of the subject matter of the first series and of algebra will be assumed. All lectures will be held in Room 6–120, from 4: 00 to 5: 00 P.M. The fee per person is $15.

On May 14 at 6: 00 P.M. there will be a dinner meeting, open to those interested in statistical methods in quality control and experimentation, in the Campus Room of Graduate House. At that time Walter A. Shewart, of the Bell Telephone Laboratories, will speak on "The Future of Statistics in Industrial Research and Quality Control." Edward R. Schwarz, who is in charge of the Division of Textile Technology at MIT, will be chairman of the meeting. The fee for this meeting, which will be limited to 200 persons, will be $3.00.

Payment of fees should be made by April 23, checks being made payable to D. L. Rhind, Bursar. All correspondence and checks should be addressed to H. A. Freeman, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.

A bulletin from the College of Natural Sciences, Yenching University, Peiping, China, gives a great deal of interesting information not only about the actual working setup of the College but about assistance received from groups and organizations outside of China. Total enrollment in the College as of last October was 295, 129 being freshmen. Upperclassmen are divided according to the subject of their interest as follows: biology, 17; chemistry, 25; home economics, 17; mathematics, 4; physics, 12; industrial training, 42; premedicine, 45; and prenursing, 4. Yenching alumni in Hawaii have raised a fund which is being used to purchase books in physics, chemistry, and biology, to re-equip the Laboratory of Physical Chemistry, and to finance several undergraduate scholarships. An Industrial Training Program has been made possible with funds donated by industrialists in Tientsin and Shanghai. The much-needed money will enable the University to offer additional courses in applied science, to enlarge the teaching staff, and to equip the required laboratories. During the last two years of the five-year course the students will spend half time in factories under the supervision of Yenching faculty. The Home Economics Department will also be expanded by virtue of a special fund of $10,000 raised through the efforts of Ava B. Milam, dean of Home Economics at Oregon State College. We also learn that the Ella Sachs Plotz Foundation has donated $450 for nutrition research, and that friends of the University in Britain and elsewhere have given generously toward the rehabilitation program. The University is in this period concentrating on undergraduate laboratory courses. A very limited number of graduate students are being accepted, and research programs are greatly curtailed.

In spite of the generosity of outside groups and individuals to certain institutions, the general educational situation in China is critical. A letter recently received from Ju Chin Chu, assistant professor of chemical engineering at Washington University, St. Louis, indicates that although most of the educational and research facilities in China were stripped by Japan and only a very small percentage of the national budget is allotted to education, morale in institutions of higher learning is still high. His letter stresses the importance of preserving this morale through material help. Gifts of books and both current and back numbers of journals would be most welcome.

The State Teachers College, Duluth, Minnesota, on July 1, 1947, became the University of Minnesota, Duluth Branch. This new branch of the University is offering curricula in major and minor fields in each department and preprofessional curricula in the fields of medicine, veterinary medicine, pharmacy, dentistry, medical technology, nursing, agriculture, forestry, and engineering. The Division of Science and Mathematics, headed by John C. Cothran, is divided into four departments: Biology, with Olga Lakela, professor of botany, as head, assisted by Mark M. Keith and John B. Gerberich, assistant professors in zoology, and Theron O. Odlaug, associate professor in zoology; Chemistry, with Dr. Coth-

ran, who is professor of chemistry, as head, and Margaret A. Brodahl, Myrle C. Wagner, and Louis W. Blacziak as instructors; Physics, with William A. Porter, assistant professor, as head, and Howard Hanson as assistant professor; and Mathematics, with William E. McEwen, associate professor, as head, and Mary I. Elwell and Clarence B. Lindquist as assistant and associate professors, respectively.

The University of Texas Medical Branch, under terms of the will of the late Mrs. Rosa H. Ziegler, of Galveston, will receive $300,000 for a unit to be named the Henry and Rosa H. Ziegler Tuberculosis Hospital, which will afford facilities for teaching and research in acute and chronic tubercular conditions.

Meetings and Elections

The Federation of American Societies for Experimental Biology will meet in Atlantic City, New Jersey, from Monday, March 15, through Friday, March 19. The Federation is composed of the American Physiological Society, American Society of Biological Chemists, American Society for Pharmacology and Experimental Therapeutics, American Society for Experimental Pathology, American Institute of Nutrition, and American Association of Immunologists. The scientific sessions, 96 in number, will be held in the Atlantic City Convention Hall. The headquarters hotel will be Chalfonte-Haddon Hall.

The Southeastern Section of the Botanical Society of America, Inc., will hold its annual spring meeting jointly with the Association of Southeastern Biologists at the University of Florida, Gainesville, April 16–17. A program including addresses, symposia, and field trips has been arranged. Members of the Society and friends who wish to attend this meeting should communicate at once with John H. Davis, chairman of the Local Committee, University of Florida.

Annual meetings of three American societies are being held concurrently in Denver, Colorado, April 26–29. The Shirley-Savoy Hotel will be headquarters for the American Association of Petroleum Geologists, while the Cosmopolitan Hotel will serve the Society of Economic Paleontologists and Mineralogists and the Society of Exploration Geophysicists. The Rocky Mountain Association of Geologists is the host organization. The technical program will be devoted mainly to papers pertaining to the Rocky Mountain area. One preconvention and two postconvention field trips have been planned. That on April 26 will be to the foothills along the Front Range from Boulder to Golden. From April 30 to May 1 there will be a trip from Denver through Colorado Springs to Canyon City and the Royal Gorge and return. Those going on the second trip will leave Denver April 30 and return May 2. Their itinerary will include Denver Basin, Front and Mosquito Ranges, pre-Cambrian to Cretaceous formations along the Eagle and Colorado Rivers, an oil-shale demonstration plant of the U. S. Bureau of Mines, and Tennessee and Kenosha Passes.

The Ohio Academy of Science is to hold its annual meeting on May 6–8 at the University of Toledo. J. J. Wolford, chairman of the Geology Section, has announced that his section is planning a field trip through northwestern Ohio on May 8 and possibly for part of May 9, under the leadership of J. E. Carman, who has specialized in that particular region. This will take the place of the spring trip which is ordinarily held over Decoration Day weekend.

The American Psychiatric Association's 1948 meeting will be held in Washington, D. C., May 17–20, inclusive, with the Statler serving as headquarters hotel. Hotel accommodations should be made through the offices of the Association, Room 924, 9 Rockefeller Plaza, New York 20.

The Medical Library Association, which this year celebrates the 50th anniversary of its founding, will hold its annual meeting in Philadelphia, May 28–30, with headquarters at the Hotel Warwick. The commemoration of the Association's founding in Philadelphia in 1898 has a prominent place on the program with addresses on "The History of the Association," by Archibald Malloch, New York Academy of Medicine; "The Medical Library Association and Medicine," by Chauncey D. Leake, University of Texas; and "The Medical Library Association Faces the Future," by the president, Mrs. Eileen R. Cunningham, Vanderbilt University School of Medicine Library. The speaker at the annual dinner on May 29 will be O. H. Perry Pepper, of the University of Pennsylvania. Group meetings will be held to discuss practical library problems, and these, with the business sessions and social functions, should make the three-day convention attractive to all who are interested in the work and development of medical libraries.

The Association for Research in Ophthalmology will hold its annual meeting on June 21–22 in Thorne Hall, on the Northwestern University Medical School campus in Chicago. Further details will be announced upon completion of the program.

The South African Association for the Advancement of Science is to hold its next annual meeting in Lourenço Marques from June 28 to July 2.

At the invitation of the American Society for X-Ray and Electron Diffraction and of the Crystallographic Society of America the first General Assembly and International Congress of the International Union of Crystallography will be held at Harvard University, Cambridge, Massachusetts, from July 28 to August 3. Those planning to attend this meeting should inform Clifford Frondel, Mineralogical Laboratory, Harvard University, if they have not already done so through ASXRED or the CSA. Further information will be announced in *Science, Acta Crystallographica, Nature,* and *The Journal of Scientific Instruments.*

Organization of a Society for the Social Study of Invention (*Science,* December 19, 1947, p. 613) was achieved at the AAAS Meeting in Chicago. According to the organizational procedures, which were proposed by S. C. Gilfillan, research associate in sociology at the University of

Chicago, and adopted with certain amendments, the aims of the Society are "to study, promote, rationalize, and economize invention and its utilization, and incidentally to build the structure of culture generally." Fields to be covered by the new Society include: (1) the social causes of invention, (2) the social effects of invention, (3) prediction of inventions and effects, (4) description and measurement of invention in its present settings, (5) the history of invention and inventors as a craft, not individually, and (6) the psychology of invention. The Society will promote scientific study of these matters, divulging its findings, especially to governmental authorities. When feasible, one or more serial publications will be issued. Dues are now set at $2.00 a year, and any person, scientific, academic, or government body, or commercial corporation, except a library, may become a member. All powers under the Constitution are to be exercised by the directors and by committees and officers designated by them. The directors are: Wm. F. Ogburn, Department of Sociology, University of Chicago; Waldemar Kaempffert, science editor, *New York Times*; Joseph Rossman, patent lawyer, Washington, D. C.; Watson Davis, director of Science Service; J. W. Oliver, Department of History, University of Pittsburgh; Robert K. Merton, Department of Sociology, Columbia University; J. B. Gittler, Department of Sociology, Iowa State College; C. W. Ooms, recent Commissioner of Patents; and S. C. Gilfillan, who is also serving as secretary.

The Institute of Mathematical Statistics has announced the election of Abraham Wald, head of the Department of Mathematical Statistics, Columbia University, as president; Churchill Eisenhart, chief of the Statistical Engineering Laboratory, National Bureau of Standards, as a vice-president; and Henry Scheffé, of the University of California at Los Angeles, as a vice-president.

The American Anthropological Association has elected Harry L. Shapiro and Loren C. Eiseley president and vice-president, respectively, for 1948. D. B. Stout, of Syracuse University, is secretary of the Association.

Fourth Cryogenic Conference

The Fourth Cryogenic Conference sponsored by the Office of Naval Research was held at The Ohio State University on October 27–28, 1947.

The program of 19 invited papers on various phases of Low-Temperature Research was divided into three half-day sessions, and a fourth half-day was devoted to an inspection trip through the exceptionally well-equipped Cryogenic Laboratory of The Ohio State University and to an informal social session given by the Laboratory.

The first session was presided over by Urner Liddell, chief of the Physics Branch, Office of Naval Research, and was devoted to a group of papers reporting research on the Superfluid Properties of Liquid Helium II. The first two papers, by Lars Onsager, of Yale University, and by F. London, of Duke University, were theoretical treatments of quantum conditions for excitation of superfluid atoms into normal atoms and of heat flow in liquid helium. The third paper, by Lothar Meyer, of The University of Chicago, was likewise a theoretical paper which sought to account for the velocity of Second Sound and for the abnormal thermal conductivity of He II in terms of a time of relaxation of the interactions between super atoms and normal atoms. The fourth paper, by C. T. Lane, presented experimental results, obtained at Yale, on the distribution of the isotope He^3 between liquid and vapor phases. A second paper by Lane discussed methods of producing "Second Sound" in Helium II. The final paper of the morning session, by J. G. Daunt, presented the results of recent experiments at Ohio State on separation of the He^3 isotope by film flow and by flow through narrow channels.

The Monday afternoon session of the conference, presided over by L. M. McKenzie, of the Office of Naval Research, was devoted to papers on the general topic of Electrical Conductivity and Physics of the Solid State, with special reference to Superconductivity. The first paper of this session was given by D. H. Andrews, of Johns Hopkins University, who described recent observations at that University on the influence of current strength on the semi-superconducting characteristics of columbium nitride, and on the action of columbium nitride as a detector for both radio frequency and infrared signals. The second paper, by R. A. Ogg, Jr., of Leland Stanford University, reported the effect of magnetic fields in lowering the upper consolute temperatures at which liquid-liquid phase separations occur in liquid ammonia-alkali metal solutions.

I. Estermann and A. Foner, of Carnegie Institute of Technology, reported the results of recent measurements on the electrical resistivity of germanium samples at low temperatures, including Hall effect studies. The fourth paper, by F. G. Dunnington and J. R. Feldmeier, of Rutgers University, presented a theoretical treatment of the radio frequency conductivity of normal conductors, as a function of temperature, and outlined an experimental program to test this treatment by measurements at low temperatures. A report of resistivity measurements of semi-conductors, at low temperatures, was given by Vivian Johnson, of Purdue University.

J. J. Fritz, of the University of California, described results obtained in Berkeley on measurements of the heat capacity and magnetic susceptibility of $FeSO_4 \cdot 7H_2O$ as a function of magnetic field strength up to 8,000 gauss, between 1° and 20° K. The final paper of this session was given by W. J. Taylor, of Ohio State, who outlined the program of low-temperature absorption and Raman spectra investigation soon to be initiated at Ohio State, and presented a theoretical treatment of lattice vibrations and their interaction with radiation.

The third session, presided over by H. L. Johnston, director of the Cryogenic Laboratory at Ohio State, dealt with Cryogenic Equipment and Methods. A joint paper by E. C. Kerr and J. T. Clarke described low-temperature calorimetric methods in use at Ohio State. In the second paper of this session S. C. Collins, of Massachusetts Institute of Technology, outlined plans for a helium cryostat that

is designed to produce continuous refrigeration at a temperature level of a few one-hundredths of one degree Absolute. F. C. Squire described the equipment in the newly constructed Cryogenic Laboratory of Rice Institute, and W. T. Ziegler, the hydrogen and helium liquefiers under construction at Georgia Institute of Technology. J. G. Aston gave a report of a tour through European Low-Temperature Laboratories (particularly Leiden), illustrating the talk with lantern slides. A paper by R. A. Ogg presented quantitative results of absorption spectra studies in dilute metal-ammonia solutions, which supported a previous interpretation of two overlapping absorption bands associated with trapped single electron and trapped electron pairs, respectively.

The Tuesday afternoon tour of the Ohio State Cryogenic Laboratory included inspection of the facilities for producing and maintaining low temperatures and of the laboratories in which experimental work is under way. The former include facilities for producing liquid air, liquid hydrogen, and liquid helium, and for separating the components of liquid air, that rank among the best in any laboratory in the world. They also include a 1,200-kilowatt motor-generator set for use on an adiabatic demagnetization cycle to produce temperatures close to the absolute zero. The latter include exceptionally well-equipped laboratories engaged in research in the properties of superfluid helium, superconductivity, low-temperature calorimetry, gaseous and liquid data of state, Joule-Thomson effects, measurement of physical properties (thermal conductivity, viscosity, velocity of sound, and thermal expansion coefficients), measurements of reaction velocity, and absorption and Raman spectra. Also included in the Cryogenic Laboratory are a well-equipped high-temperature laboratory, a mass spectrometer laboratory, a scientific computing laboratory, a materials testing laboratory, a rocket motor laboratory, and a well-equipped shop.

All the papers given in the technical sessions of the Conference dealt with investigations supported by the Office of Naval Research. Representatives of the Naval Research and Naval Ordnance Laboratories, the U. S. Bureau of Standards, the Bell Telephone Laboratory, the General Electric Research Laboratory, and the Westinghouse Research Laboratory also participated in the discussions, by invitation. (H. L. JOHNSTON.)

Deaths

Clara Amity Bliss, emeritus professor of chemistry at Wells College, Aurora, New York, died February 1 at her home in Newburyport, Massachusetts. She was associated with the College from 1893 to 1929, the year of her retirement.

Alexander Maxwell, 69, former director of engineering of the Edison Electric Institute, died February 10 in South Norwalk, Connecticut, after a long illness.

Herbert P. Whitlock, 79, curator emeritus of minerals and gems, American Museum of Natural History, died February 22.

Lloyd Raymond Watson, 71, emeritus professor of chemistry, Alfred University, died on February 26 at his home in Alfred, New York. Dr. Watson was known for his discovery of a method for artificial insemination of the queen bee.

Establishment of a new national scientific organization, with headquarters at Yale University, has just been announced. Sponsored by, and affiliated with, the Society of the Sigma Xi, which also has its headquarters at Yale, the new Scientific Research Society of America is a nonprofit corporation having as its primary purpose the organization of chapters in important industrial laboratories. George A. Baitsell, Sigma Xi's national executive secretary, in making the announcement, said: "It is believed that the combination of the Scientific Research Society of America in industry with Sigma Xi in educational institutions will provide encouragement and assistance to research scientists all over the United States." Cutting across all sciences, "the SRSA will be able, by its local group activities, national lectureships, publications, and grants-in-aid, to develop an exchange of ideas about the latest trends in scientific research and offer other aid not now available to research workers," Dr. Baitsell stated.

A. Oosthoek's Uitgevers Maatschappij, Ltd., Utrecht, Holland, has announced that it will publish a new international review journal, *Acta Hydrobiologica et Protistologica.* In addition to papers on original research work in the fields named, the quarterly journal will contain an up-to-date book list, book reviews, news items, letters to the editor, and miscellaneous items of interest. The Board of Editors includes: Gunnar Alm, Drottningholm, Sweden; H. d'Ancona, Padova University, Italy; Kaj Berg, Copenhague University, Denmark; F. E. Fritsch, London University, England; K. Münster Ström, Oslo University, Norway; W. R. Taylor, University of Michigan (U. S. A.); Mrs. N. Wibaut-Isebree Moens, Amsterdam, Holland; and P. van Oye, Ghent University, Belgium, who is managing secretary.

Make Plans for—

Symposium on Modern Instrumental Methods of Analysis, March 22–24, University of Minnesota.

Pennsylvania Academy of Science, March 26–27, Grove City College, Grove City, Pennsylvania.

American Association of Physical Anthropologists, April 2–4, U. S. National Museum, Washington, D. C.

American Geophysical Union, 29th annual meeting, April 21–23, Washington, D. C.

American Physical Society, 285th meeting, April 29–May 1, Washington, D. C.