The secret balloting by competent experts should be extended to numerous additional fields. Aside from the encouragement that such recognition affords, another major advantage of such rating by secret ballot of those high in a wide variety of fields is that it increases the prospect that those who are judged outstanding will be given better opportunities to use their special talents and skills in the making of a better world. This happens partly because universities and other institutions dedicated to human betterment actively desire assistance in locating persons of especial merit so that they can obtain their services. Hence, the extension of starring to numerous fields not now represented would be highly advantageous and would certainly result in increased achievement.

Not only have nine-tenths of the 770 starred scientists

who recently voted on the matter approved of a broadening of the basis for starring and expressed the conviction that the consequences would be advantageous, but large numbers of nonstarred scientists and persons who employ scientists have expressed similar opinions. It therefore appears that in the eighth edition of American men of science, now in preparation, many more persons should be starred than in the previous editions. Moreover, the voting should be done in fields small enough so that those selected to vote are better qualified to rate the younger workers than is possible when the fields are large and diversified (all of zoology, for example, or all of chemistry). This will mean extra work for those who arrange for and assemble the votes and for the publishers, but the benefits should abundantly justify the extra efforts.

# NEWS and Notes

The Army's electronically-controlled C-54 recently used to demonstrate pilotless flight across the Atlantic was first developed early in 1946 and since then has been used on many shorter hops within the United States. From the time the flight commander, Col. J. M. Gillespie, set the automatic controls into action on the runway of the Newfoundland airport at Stephenville, it was not necessary for him or his crew to direct the flight in any way. Signals from two radio transmitters, located on ships at sea along the course of the flight, were interpreted by the plane's radio compass, and a third set of signals from a transmitter on a truck at the British airport brought it in for an automatic landing.

The 14 passengers making this initial flight included several U.S. scientists and an observer from the RAF.

### About People

Chemical Center, Maryland, is visiting cation, Marquette.

England and Germany to investigate work on Chemical Warfare Protective Division of Pharmacy, Columbia Univer-Equipment. His investigation will cover sity College of Pharmacy, has resigned in materials, manufacturing processes, testing, and the theoretical aspects.

Allan D. Maxwell, formerly of the Nautical Almanac Office, U.S. Naval Observatory, has been appointed professor of astronomy, Howard University, Washington, D. C.

R. L. Meier, research chemist, California Research Corporation, has been appointed executive secretary. Federation of American Scientists, Washington, D. C., Bay. for one year to succeed William Higinbotham.

Arthur B. Bromwell, Northwestern University, was appointed secretary, American Society for Engineering Education, effective October 1. The headquarters of the Society will be moved from the University of Pittsburgh to Northwestern University

Bowen C. Dees, assistant professor of physics, Rensselaer Polytechnic Institute, has been appointed physicist, Economic and Scientific Section of Gen. MacArthur's organization in Tokyo. In this position, Dr. Dees will survey and advise concerning the physical research being conducted in university and commercial laboratories in Japan.

anist, Cranbrook Institute of Science, has State University, and of the Ohio Acad-S. H. Katz, senior consultant, Chemi- been appointed assistant professor of bical Corps Technical Command, Army ology, Northern Michigan College of Edu-

C. Lee Huyck, professor and head, order to become director. Department of Pharmacy, Howard College, Birmingham, Alabama.

Jacques Rousseau. director. Montreal Botanical Garden, has recently returned from a botanical survey in the interior of the Ungava Peninsula. Dr. Rousseau traveled by canoe from the source of George River to its mouth and crossed that peninsula from Seven Islands on the St. Lawrence River to the Ungava

Alexander Brunschwig, formerly professor of surgery, University of Chicago, has been appointed head, Department of Surgery, Memorial Hospital, Center for Cancer and Allied Diseases, New York City. Dr. Brunschwig also holds the concomitant appointment as professor of clinical surgery, Cornell University Medical College.

George A. Edwards, Harvard University, has been appointed assistant professor, Department of Biology, Tufts College, Medford, Massachusetts.

Frederick C. Frick, Columbia University, and Moncrieff H. Smith, Stanford University, have been appointed instructors in psychology at Harvard University.

Ethel Melsheimer Miller, librarian Mariorie T. Bingham, formerly bot- of the Botany and Zoology Library, Ohio emy of Science, retired September 30. Mrs. Miller established the Botany and Zoology Library in 1917.

Marshall Clagett, instructor in hisof the History of Science, University of Wisconsin.

Irving A. Denison, who has been connected with the Soil Corrosion Section, National Bureau of Standards, since 1929, has been appointed chief of the Bureau's Underground Corrosion Section.

Noel Elmer Foss, technical director, Department of Pharmacy, Calco Chemical Division, American Cvanamid Company, Bound Brook, New Jersey, has been appointed assistant dean, College of Pharmacy, University of Illinois.

Kenneth N. Ogle, formerly professor of research in physiological optics, Research Division, Dartmouth Eye Institute, Hanover, New Hampshire, has become a member of the permanent staff, Division of Physics and Biophysical Research. Mayo Foundation and Mayo Clinic, Rochester, Minnesota, where he will continue research in physiological optics and visual problems and carry on clinical researches in collaboration with the Section on Ophthalmology.

Robert J. Ollry, formerly a teacher at St. Lawrence University, has been appointed associate professor of biology and acting chairman, Department of Biology, Norwich University, Northfield, Vermont.

Max Hansen, formerly director of research, Durener Metallwerke, Duren, Germany, and a leading nonferrous physical metallurgist, has been appointed associate professor of metallurgical engineering, Illinois Institute of Technology.

J. A. Stekol, Amino Products Division, Rossford, Ohio, and Denis R. A. Wharton, Cornell University Medical College, have been appointed to the staffs of the Lankenau Hospital Research Institute, and the Institute for Cancer Research, Philadelphia.

William D. Gray, formerly chief, Biological Laboratories, U. S. Quartermaster Depot, Jeffersonville, Indiana, has been appointed associate professor, Department of Botany, Ohio State University.

Cecil A. Gibb, University of Sydney, Australia, has been appointed half-time visiting lecturer in the Department of Psychology, University of Illinois.

Hubert Bleier, who succeeded Erich in the interpretation of scientific results torv. Columbia University, has been ap- von Tschermak at the School for or prosecution of research dealing with pointed assistant professor, Department Agriculture, Vienna, has informed Lester the determination, preparation, conser-W. Sharp, Cornell University, that he vation, or improvement of the nutritive was compelled to flee from Austria to properties of poultry and eggs. Contribu-Germany in 1945 and suffered the loss of tions must have served to enlighten the all his possessions, including his scientific public regarding the value of poultry and library. Prof. Bleier, who has now found eggs in the human diet or to increase the employment in a seed improvement knowledge of the quality and nutritive company, where he is carrying on re- value of poultry products. Further inforsearches on polyploid rye, would deeply mation may be obtained from the chairappreciate the donation of any books, man of the Christie Award Committee, separates of articles in the fields of cytology, genetics, and agriculture, together West Lafayette, Indiana. with any other publications which would in some measure compensate for the loss of his library and that of the company with which he is associated. They may be sent in care of F. von Lochow-Petkus, 20a Bergen (Kreis Celle), Postschliessfach during the war, and now head of the 5, Germany (British Zone).

## Grants and Awards

Corrosion research being carried on in the Department of Chemistry, University of Texas, under the direction of Norman Hackerman is being supported by grants from the Office of Naval Research and the Natural Gasoline Association of America. Under the Navy grant Don Marshall and Aubrey McClelland will work on passivity of metals, especially chromium and stainless steel, and John Sudbury will carry out fundamental research on the mechanism of corrosion Boston, and formerly research fellow in inhibitor action. The other grant provides for work being done by E. E. Glen on the mechanism of corrosion inhibitors, particularly in anaerobic systems.

The Kirksville College of Osteopathy and Surgery, Kirksville, Missouri, has received a \$6,119 grant from the National Institute of Health to be used in support of the work of J. S. Denslow, director of research, who is studying the spatial relationship of muscle fibers in single motor units.

Board has announced that nominations in the fields of electricity, physics, and are solicited for the Christie Award of physical chemistry, and the Gerard Swope \$500 and a scroll, which will be presented Fellowships, first granted in 1946, at the annual meeting of the Board in awarded in the fields of industrial man-Chicago in January of 1948. This award, agement, engineering, physical sciences, made possible through a donation from and any other scientific or industrial field. Andrew Christie, will be presented each The fellowships will be granted for the year for the next 5 years. The recipient amount needed up to a maximum of will be the person who has made the \$1,500 annually for each individual. A greatest contribution in the past 10 years grant of \$500 may be made for specific through research, teaching, or extension apparatus or other expense in connection

I. Holmes Martin. Purdue University,

Thomas H. Johnson, chief, Ballistic Measurements Laboratory, and associate director, Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland, Physics Section, Brookhaven National Laboratories, received the Medal for Merit, the highest civilian award for war work from the Government, on September 25, in recognition of his outstanding wartime leadership in the development of highly accurate techniques for the measurement of the blast and fragmentation effects of bombs and in the development of microwave techniques for measuring velocities of projectiles, both in the bore of the gun and in flight.

Moses J. Eisenberg, chief, Dental Services, Jewish Memorial Hospital, dentistry, Harvard University, was the recipient of the First Award for his exhibition at the recent Boston meeting of the American Dental Association. The award was given for original research in a basic science. Dr. Eisenberg's field is histology.

### Fellowships

The General Electric Company has announced that applications are now being accepted for the academic year 1948-49 for grants under the \$1,000,000 G-E Educational Fund which include the The Poultry and Egg National Charles A. Coffin Fellowships, awarded

with the research work. In addition, in case of need, loans up to \$1,000 may also sity of Miami, Coral Gables, Florida, metal does not affect its accuracy. It is be made. The fellowships are intended Craig A. Gathman, who has been ap- expected that the device will prove useful for graduates who need financial assist- pointed research associate in fisheries in the inspection for quality of assembly ance and who have shown by the charac- biology, is collaborating with F.G. Wal- line parts and in the rapid sorting of ter of their work that they could with ton Smith, director of the Laboratory, supplies of metal objects without damage advantage undertake or continue research in a study of the British Honduras fish- to the metals. work in educational institutions either in eries carried out on behalf of that governthis country or abroad. They are not ment. Luis Rivas, recently named intended for graduates who now hold, or associate professor of zoology at the expect to hold, any other fellowship which University, is working on the taxonomy carries a stipend larger than the tuition at of West Indian marine fishes, a work the institution where the research work is which, it is hoped, will greatly add to the to be done. Applications, which must be reference collection of Florida and West filed by January 1, 1948, may be obtained Indian marine fish at the Marine Labofrom A. D. Marshall, secretary, General ratory; and Charles C. Davis, newly Electric Educational Fund, Schenectady, appointed assistant professor of zoology, New York.

#### **Colleges and Universities**

The School of Medicine, Louisiana John J. Blasko, clinical instructor in species, each being represented by from 1 D. Bone, clinical assistant in medicine. The school year has been expanded from 32 to 36 weeks.

A Department of Bacteriology was created July 1 on the Bloomington campus of Indiana University, having as its chairman L. S. McClung, associate professor. Instruction and research in bacteriology had been combined with botany since 1940. In the same Department, S. E. Luria, assistant professor, has been promoted to associate professor; I. C. Gunsalus, Cornell University, has been appointed professor and will have charge of a program relating to bacterial physiology and metabolism; Herbert J. Welshimer, Ohio State University, has been appointed instructor; C. F. Robinow, Strangeways Laboratory, Cambridge, has been appointed visiting professor during the spring semester and will give an advanced course in bacterial American Cancer Society.

At the Marine Laboratory, Univer- sample. Paint, polish, or rust on the is studying the plankton as part of a comprehensive ecological survey of the inshore waters near Miami.

The Geological Museum of the State University, has appointed Harry University of Minnesota has purchased E. Dascomb instructor in medicine, from F. W. Sardeson his private collection Robert M. Waters instructor in surgery, of fossils which contains about 3,300 neuropsychiatry, Louis Raider, clinical to 100 specimens. Dr. Sardeson collected Meetings instructor in radiology, Simon V. Ward, most of the specimens over a period of 50 Ir., clinical instructor in obstetrics and years from the Ordovician rocks of Mingynecology, Harold S. Gamble assistant nesota, Wisconsin, and Iowa. The collecin anatomy, John D. Krafchuk assistant tion also contains Jurassic invertebrates in microbiology, James T. McQuitty, which Dr. Sardeson collected in central clinical assistant in surgery, and Robert Europe while a student at Heidelberg.

#### **Industrial Laboratories**

Sharp & Dohme, Inc., has announced the following staff changes following a meeting of the Board of Directors: John S. Zinsser, president and chief executive officer, elected chairman of the Board; William L. Dempsey, executive vicepresident, elected president to succeed Mr. Zinsser, who will continue as chief executive officer; and William A. Feirer, formerly vice-president in charge of medical research, elected executive vice-president and a director of the Company.

Maurice L. Moore, assistant director of research, Frederick Stearns & Company, has been appointed director of the Research Laboratories of Smith, Kline & French, Philadelphia, to succeed the rems in Riemannian Geometry" by C. B. late Walter G. Karr.

General Electric Corporation has cytology; and Charles Russell and recently developed, under the direction of will hold its autumn meeting November Renato Dulbecco will serve as research D. E. Bovey in its General Engineering 17-19 at 2101 Constitution Avenue, associates. Research in the Department and Consulting Laboratory, a "metals Washington, D. C. The sessions on Monwill be supported in part by grants from comparator" which, by employing an day will be devoted to a discussion of the the National Institute of Health and the electronic circuit, discriminates between functions of the Academy with reference

Eastman Kodak Company has recently prepared a quantity of isotopic methyl iodide in its Synthetic Organic Research Laboratory. This chemical compound contains "tracer" C13 in an improved and highly usable form which does not require further extensive treatment. before actual use, as did the previous heavy carbon produced by Kodak. The method used in making the new compound was one first used at the University. of California in the preparation of compounds containing radioactive carbon. The National Research Council has received the first shipment of methyl iodide and will distribute it and later shipments to qualified research organizations.

The American Mathematical Society will hold its 428th meeting at Hunter College, October 25, beginning at 10:00 A.M. Section I, on Analysis, in Room 1217, will hear papers by I. E. Segal, Institute for Advanced Study; Paul Erdös, Syracuse University; J. C. Oxtoby, Bryn Mawr College; Everett Pitcher, Lehigh University and Institute for Advanced Study; Arthur Sard, Oueens College; and R. J. Duffin, Carnegie Institute of Technology. At the meeting of Section II, on Algebra, Topology, and Logic, in Room 1239, papers will be presented by O. E. Glenn, Lansdowne, Pennsylvania; G. C. Webber, University of Delaware; Saunders MacLane, University of Chicago; L. V. Toralballa, Fordham University; E. H. Spanier, Institute for Advanced Study; Hing Tong, National Research fellow, Institute for Advanced Study; and Ira Rosenbaum, Brooklyn College. A general session, to be held at 2:00 P.M. in the High School Auditorium. will feature a lecture on "Global Theo-Allendoerfer, Haverford College.

The National Academy of Sciences the metal in question and a standard especially to its relations to the Government and other groups and to the charac- New Jersey; and the annual business activities and investigations pursued by ter of its scientific sessions. Scientific meeting at 3:45 P.M. A social program in the Unions, and that UNESCO would aid papers will be presented at the morning the evening will include color movies by in their realization, it being understood, and afternoon sessions on Tuesday, and K. Compton, Bell Telephone Labora- however, that the maintenance of the the morning session on Wednesday. The tories. Saturday morning, "Theory of Unions themselves must be assured by Public Lecture will be given Monday Plastic Flow Versus Theory of Plastic their own resources. In brief, these inevening at 8:30 in the Academy Audito- Deformation," W. Prager, Brown Uni- ternational Unions are self-sustaining orrium, and the Academy Dinner will be versity; "Anomalous Viscosity of Alumi- ganizations supported by contributions held Tuesday evening at the Hotel num Soap-Benzene Gels," Walter H. from adhering nations. Substantial sums Washington at 6:30. F. E. Wright, Geo- Bauer, Henry Raich, and Grant K. from UNESCO will be distributed, howphysical Laboratory, Carnegie Institu- Rauscher, Rensselaer Polytechnic Insti- ever, through these Unions as grants-intion of Washington, is chairman of the tute; "New Aspects of Colloid Science to aid or subventions to particular projects. Local Committee on Arrangements.

The American Philosophical Societv will hold its autumn general meeting November 20-21 in Philadelphia. Lindsley, Institute of Textile Technology, Commissions, such as Radiobiology, Nat-At the open sessions on these two days, beginning at 10 A.M. Thursday, papers will be read by: Lyman H. Butterfield, Leonard Carmichael, Wallace O. Fenn, International Union of Biological Paul D. Foote, Werner Jaeger, Chester S. Sciences was held in Copenhagen Keefer, Hayward Keniston, William L. July 28, 1947, with participation of Langer, O. E. Neugebauer, William G. representatives of UNESCO and of the du Vigneaud, and William L. Wester- Czechoslovakia, Denmark, France, Great ington.

November 1 at the Hotel Pennsylvania, General Assembly had not been able to be New York City. The program follows: convened since 1935 as a consequence of Relaxation in High Polymer Materials," W. S. Macdonald and Alexis Ushakoff, W. S. Macdonald Company, Cambridge, Massachusetts; "Rheological Properties of Polystyrene," Rolf Buchdahl, Mon- president: M. J. Sirks, Genetisch Institut, the United States). santo Chemical Company, Springfield, Huis de Wolf, Haren (Gron.), Holland; Massachusetts; and "Viscous Flow of vice-president: H. Munro Fox, Depart-Molten Polystyrene," R. S. Spencer and ment of Zoology, Bedford College for Nomenclature in Zoology and Entomol-R. E. Dillon, The Dow Chemical Com- Women, Regents Park, London N.W.1, ogy, and on Evolution in Biology; (2) pany, Midland, Michigan; Friday after- England; secretary general: P. Vayssiere, Publication of a Catalogue of Type Specinoon, "The Cragoe L Function for Museum d'Histoire Naturelle, 57 Rue mens of Animal Species and of Historical Viscosity of Oils Under Pressure at Cer- Cuvier, Paris Ve, France; associate secre- Collections; (3) Distribution of Artificial tain Temperatures," R. B. Dow, Bureau tary general: Stuart Mudd, School of Radioactive Isotopes for Experimental of Ordnance, Navy Department, Wash- Medicine, University of Pennsylvania, Biology; (4) Creation of a Center of Maington, D. C.; "The Viscosity Basis of Philadelphia 4; treasurer: F. Chodat, In- rine Biology in the Malay Archipelago; and Plasticizer Action," H. Jones and E. stitut for General Botany, University of Chadwick, Plastics Division, The Geigy Geneva, Switzerland. Company, Ltd., Manchester, England; Telephone Laboratories, Murray Hill, attached a very special importance to the fare. This resolution had been adopted by

Rheology," Ernst A. Hauser, Massachusetts Institute of Technology; and "Pseu- ned-Experimental Cytology, Embryoldoplastic Flow Properties of Lyophilic ogy, Entomology, Genetics, Micro-Colloids," Earl K. Fischer and Charles H. biology, Zoology-and also several mixed Charlottesville, Virginia.

Roelker, Carl O. Sauer, Robert L. Schuy- International Council of Scientific Unions International Congresses of Experimental ler. Harlow Shapley, Sumner H. Slichter, (ICSU), and delegates of the following Cytology at Stockholm and of Microbiol-Mark Starr, Francis R. Steele, Vincent countries: Belgium, Brazil, Bulgaria, ogy at Copenhagen and those to take mann. On the evening of November 20 Britain, Holland, Mexico, Morocco, IUBS (Symposia on Trace Elements in Douglas S. Freeman will give the Frank- Norway, Poland, Spain, Sweden, Switzer- Plants and on Biological Antagonisms), lin Medal Lecture on the subject of recent land, United States. The representative of the following program of activities was discoveries concerning George Wash- China, delayed, sent his regrets from established for 1948 and 1949: Interna-Marseille in not being able to arrive in tional time. Prof. Borel, vice-president of ICSU, holm), Entomology (Stockholm), Zoology The annual meeting of the Society was present at the Assembly, which was (Paris), Silkworm Culture (Ales (Gard)), of Rheology will be held October 30- of particular importance. Actually the Physiology and Pathology of the Repro-Friday morning, "Measurements of Stress world events. Revised statutes were Botany (Utrecht), Terminology of Genettherefore adopted by the Assembly, and ics and Cytology (Stockholm), Interacnew activities were undertaken appropri- tion of Egg and Sperm (Milan), Embryoate to new circumstances.

Joseph Needham, representing UNES-"Viscosity and Shear Elasticity Measure- CO, in agreement with A. Establier, re- mously the resolution transmitted to it by ments of Liquids by Means of Shear presenting ICSU, indicated that the great the Congress of Microbiology with regard Vibrating Crystals," W. P. Mason, Bell international organization of UNESCO to prohibiting all means of biological war-

The creation of new Sections was planural Calamities, Oceanography. These last Commissions should comprise mem-The IXth General Assembly of the bers of other Unions. The Executive Committee, which convened on October 2, was to assure the carrying out of these projects.

After having reviewed the actions of the place later in 1947 under the auspices of Congresses-Genetics (Stockduction of Animals (Milan); Symposia-Bases of Nomenclature and of Systematic logical Chemistry (Berne), Development The new Bureau was thus constituted: and Regeneration of Nerves (probably in

> There were also proposed: (1) Symposia on the Role of Anaerobes in Nature, on (5) Formation of an Association of Directors of European Botanical Gardens.

Finally the Assembly approved unani-

the strongest possible terms all forms of biological warfare. The Congress considers worthy of any civilized community and power to prevent their exploitation."

The next Assembly will take place in 1950, probably at Stockholm. The Inparticular.

For all information address the Secre- son tary General, Prof. P. Vayssiere, 57 Rue jointly by the California Institute of Cuvier, Paris Ve, France.

The American Type Culture Collection. located at Georgetown University School of Medicine for the past 10 years, is to be established soon in a laboratory of its own at 2029 M Street; N. W., Washington 6, D. C. The staff will consist of Ruth E. Gordon, curator, Isabel Christison, mycologist; Ruth Davis, bacteriologist; and Katherine Alvord, secretary and business manager. Ralph St. John-Brooks, retired curator, National Collection of Type Cultures, Lister Institute, London, and present permanent secretary, International Association of Microbiologists, and collaborator, Centre de Collection de Type Microbiens, is' returning from Switzerland in November and will occupy an office in the new laboratory. The task of examining the 4,000 cultures of the Collection for viability and purity, begun in 1944, is nearly finished. A complete catalogue of the American Type Culture Collection strains will be published as soon as possible after the appearance of the 6th edition of Bergey's Manual.

The figuring of the 200-inch telescope mirror was completed October 3, its parabolic surface reaching perfection within two millionths of an inch, according to the results of John A. Anderson,

acclamation at the final Plenary Session Wilson Observatory, and members of the Smithsonian Institution's Astrophysical of the Fourth International Congress of Observatory Council, who devised new Observatory, directed by L. B. Aldrich. Microbiology held in Copenhagen July 26: methods of testing the mirror surface to Other similar observatories under Smith-"The Fourth International Congress of check the accuracy of previous testing sonian direction are located on the tops of Microbiology joins the International methods. The giant disc, weighing about Mt. Montezuma in Chile, and Table Society of Cell Biology in condemning in 20 tons before the grinding, and larger Mountain in California, where the than the floor of a two-car garage, was amount of heat radiation from the sun is cast in 1935 by the Corning Glass Works least affected by dust or water vapor in such barbaric methods as absolutely un- and shipped to the California Institute of the atmosphere. The Miami station. Technology the following spring. Five and however, where the atmosphere is contrusts that all microbiologists throughout one-quarter tons of glass were removed siderably more dense, will be an especially the world will do everything in their in the grinding and polishing of the desirable place for studying the effects of mirror, under the direction of Marcus H. the absorption by water vapor. The new Brown. The disc will now be aluminized station will also cooperate with the Army and mounted in the observatory built for in measuring the effects of solar radiation ternational Union of Biological Sciences it on the top of Mount Palomar in Cali- on various fabrics. Mr. Aldrich is now invites all countries not at present ad- fornia, 130 miles southeast of Pasadena. looking for another high mountain site hering to join the Union in the interests of It is expected that the telescope will be in in Mexico for an observatory to replace science in general and of each country in operation by early summer of 1948. Both one recently abandoned at Tyrone, New the Mount Palomar and the Mount Wil- Mexico. Observatories will be operated Technology and the Carnegie Institution of Washington.

> isotopes produced from the atomic pile terms of a four-year contract now being at Clinton Laboratories, Oak Ridge, Ten- negotiated, will henceforth be operated nessee, left September 5 for the Common- by the University of Chicago. The wealth X-Ray and Radium Laboratory, Laboratory will thus become the third of Melbourne, Australia. The shipment, AEC's national laboratories. The first to which consisted of 20 millicuries of phos- be established, Argonne National Labophorus 32 for treatment of an urgent case ratory, also operated by the University of of polycythemia vera, was made by air Chicago, has as participants 29 institusince phosphorus 32 has a half-life of only 14.3 days.

At the High Plains Potato Conference held in Monte Vista, Colorado, on August 15, a new organization, the Intermountain Plant Pathologists, was formed by 12 plant pathologists from that region. Through the society plant pathologists of the Intermountain Region will be able to maintain closer contact with each other with respect to plant disease problems in the region and thus more effectively attempt to solve such problems. Membership in the society, an unofficial branch of the American Phytopathological Society, is open to plant pathologists in Idaho, Montana, Nebraska, Wyoming, Utah, Colorado, New Mexico, and Arizona. W. D. Thomas, Jr., of Colorado A & M College, is chairman of the group for the coming year; W. J. Henderson is secretary.

A new observatory for the daily determination of the radiation of the sun Catholic University of America, Duke who has been in charge of the optical at sea level is now being set up at Miami, University, Emory University, Georgia

Clinton Laboratories, at Oak Ridge. Tennessee, which have been operated since July 1945 by the Monsanto Chemical Company, are to be renamed Clinton The first foreign shipment of radio- National Laboratory and, under the tions throughout the Midwest, while Brookhaven National Laboratory, operated by Associated Universities, Inc., is composed of 9 eastern universities. At Clinton 14 southern universities in the Oak Ridge Institute for Nuclear Studies and a score of industries and industrial representatives will participate in the research, development, and training programs. This plan of establishing national laboratories, conceived by Manhattan District's Advisory Committee on Research Policy, has as a major objective the utilization of research personnel and facilities of industry and academic institutions throughout the country and institution of a program of training in the nuclear sciences. The Oak Ridge Institute for Nuclear Studies, headed by Frank P. Graham, president, University of North Carolina, and formed last year to promote activities in nuclear science in southern universities, includes as members Alabama Polytechnic Institute, work, Ira S. Bowen, director, Mount Florida, as a part of the program of the School of Technology, Louisiana State

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Carolina, Tennessee, Texas, and Virginia, and Vanderbilt University.

The National Registry of Rare Chemicals, 35 West 33rd Street, Chicago 16, Illinois, lists the following wanted chemicals: 6-hydroxy-2,2,5,7,8-pentamethylchroman; d-2-desoxyribose; hydrocoerulignone; diborane; deuteroammonia; coniferin; nitroarginine; agmatin; galegin; canaline; canavanene; hydroxylysine; laudanosine; 3-chloropyridazine; pyridazone; pyridazone-3-carboxylic acid; pyridazinone-3-carboxylic acid; xanthopterin; desoxypyridoxine; ethionine; carbon oxyselenide; and carbon sulfoselenide.

The Huancayo Magnetic Observatory, the most important of its kind in this hemisphere, has now been transferred to the Government of Peru from the Carnegie Institution of Washington, in accordance with the latter's policy of transferring fixed observatories to the governments of countries in which they are located, and also in accordance with the recommendation of the International Union of Geodesy and Geophysics that governments take over such facilities within their own territory because of their importance to national economy. The Observatory, functioning autonomously, will be supervised by a Directive Committee headed by Jorge Broggi, director, Geological Institute of Peru, and including three Peruvian scientists. and three U. S. representatives: J. M. Hydrick, Rockefeller Foundation, and now of the Peruvian Ministry of Public Health; John A. Fleming, formerly director, Department of Terrestrial Magnetism, Carnegie Institution, and currently special adviser to the Institution in international scientific affairs, who led in the establishment of the Observatory in 1922; and the cultural attaché of the U. S. Embassy in Peru.

#### The Swedish Deep Sea Expedition

The Swedish Deep Sea Expedition, organized by, and under the personal direction of, Hans Pettersson, director of the Oceanografiska Institutet, left Göteborg are of the highest degree of competence. on July 4, 1947, on the 1,450-ton motor The ship is a freighter and merchant schooner Albatross. The trip is expected officer training ship with the midship secto last approximately 15 months, and tion converted into laboratories and quarduring that time oceanographic studies ters for the scientific staff. On the main will be conducted in low-latitude regions deck is a large general laboratory as well

University, Tulane University, the Uni- in the Atlantic, the Caribbean, the Pacific, as a chemical and biological laboratory. versities of Alabama, Kentucky, North the Indian Ocean, and the Mediterranean. On the second deck is a large laboratory On August 20, 1947, the Albatross had for treating the cores, which are opened on reached the Canal Zone and was sched- board, a large refrigeration room for the uled to proceed to Tahiti via the Galapa- preservation of certain materials, an gos and Marquesas Islands, thence to aquarium room, a completely equipped Hawaii and the Netherlands East Indies, photographic dark room, and a small and through the Indian Ocean to the machine shop. The large winch for operat-Mediterranean.

> to obtain cores of sediment in the deep meters of unspliced heavy cable. ocean basins. These are taken with the new piston core sampler developed by the expedition (approximately \$500,000) Börje Kullenberg, and undisturbed cores is not being borne by the government of have been obtained up to 20 meters in Sweden, but is made up entirely of donalength. The events recorded in these deep- tions from private Swedish citizens who sea cores should greatly add to our meager are interested in sponsoring the pure knowledge of the recent history of the science of oceanography. This is a remarkoceans, and such long cores may extend a able achievement for a country having few millions of years into the geologic only about 4 per cent of the population past when obtained from the center of a and 1 per cent of the wealth of the United large ocean basin. In addition to cores, States and now being subjected to severe continuous depth records are made with a income taxation. There is no doubt that new type of British fathometer which the Swedish Deep Sea Expedition will records on a larger scale than any other at present in use. Depth profiles from the Atlantic basins show a remarkable rough- PHLEGER, JR., Woods Hole Oceanographic ness of the bottom in the deep basins in many places with several abrupt changes in depth suggesting fault zones. Waloddi Weibull is measuring the apparent thickness of the deep ocean sediments by means of sonic reflections recorded from the explosion of small depth bombs. In the Caribbean Weibull has obtained a probable thickness ranging from 1,000 to 3,000 feet. Complete hydrographic stations are being occupied at regular intervals, and the intensity of light penetration is being measured at various depths. Large water samples also are being collected from deep water layers for a study of their radioactivity.

It was the good fortune of the undersigned to be the guest of the expedition on its way from Martinique to the Canal Zone, representing the Hydrographic Office of the Navy Department and the Woods Hole Oceanographic Institution. Towing techniques for living Foraminifera were demonstrated, and a new type Illinois. of bottom sampler was loaned to the party. The Albatross is admirably fitted out for a round-the-world cruise, and the scientific party and ship officers and crew

ing the piston core sampler is in the for-The principal work of the expedition is ward hold and is equipped with 7,500

> It is interesting to note that the cost of produce results which are of fundamental importance to oceanography. (FRED B. Institution.)

> Erratum. The price of Thermodynamics for chemists by Samuel Glasstone was incorrectly quoted in its review by Don M. Yost in Science, September 26. The book is a single volume, not one of a series, and its correct price is \$5.00.

### Make Plans for-

American Institute of Electrical Engineers, Midwest General Meeting, November 3-7, Chicago, Illinois.

American Institute of Chemical Engineers, November 9-11, Detroit, Michigan.

National Committee for Mental Hygiene, November 12-13, Hotel Pennsylvania, New York.

American Society of Animal Production, November 28-29, Chicago,

The Society of American Foresters. Annual Meeting, December 18-20, Minneapolis, Minnesota.

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