

and heated to about 700° C, after which the mixture is cooled to 400° C and aged at that temperature from eight to sixteen hours. The alloy then consists of the intermetallic compound, manganese bismuthide, and unreacted manganese and bismuth. To get the enriched bismuthide from the mixture the material is ground and the magnetic portions separated from the non-magnetic metals by a magnetic separator. The magnetic portion is then hot pressed at a temperature of 300° C in a double acting floating die in the presence of a strong magnetic field. The latter is used to align the particles along the direction of easy magnetism. Bismanol magnets made in this manner not only show the high coercive force mentioned above but also have a maximum energy comparable with Alnico magnets (3×10^6 gauss-oersteds) and a Curie temperature of 350° C. No technical evaluation of the new magnet with respect to temperature, stability, aging, shock, etc. is available at the present time.

APS—Bell Labs Award

O. E. Buckley Solid State Physics Prize

Bell Telephone Laboratories and the American Physical Society have established the Oliver E. Buckley Solid State Physics Prize, consisting of an annual prize of \$1000 to be awarded by the Society to a person adjudged to have made a most important contribution to the advancement of knowledge in solid state physics within the five years immediately preceding the award. Endowed by a trust fund of \$50,000 provided by Bell Labs, the prize is named in honor of the Laboratories' former President, now Board Chairman, who is to retire on September 1 after 38 years' service in scientific and administrative work for the Bell System.

The prize, which will be administered wholly by the APS, will be available for each calendar year, but the Society may delay an award to a subsequent year. A total of 25 prizes will be awarded during the 25-year life of the trust and in 1978 the remaining funds are to be turned over to the American Physical Society for the uses and purposes of the Society.

The committee announced by the Society to select the first winner of the prize consists of five members of the Society. They are Harvey Brooks, Harvard University; J. B. Fisk, Bell Labs.; J. C. Slater, Massachusetts Institute of Technology; Cyril S. Smith, Institute for the Study of Metals, University of Chicago; and APS President J. H. Van Vleck, Harvard University.

NRC Fellowships

Rockefeller, Lilly, and RCA Awards

The National Research Council has announced awards for 1952-53 under programs of fellowships which it administers. National Research Fellowships in the Natural Sciences, postdoctoral fellowships supported by the Rockefeller Foundation to promote fundamental research, were awarded to 13 scientists. The new fellows with their institutions of study and scientific ad-

visors are: George R. Bird (Columbia University, Charles H. Townes); Julian C. Eisenstein (Clarendon Laboratory, Oxford, F. Simon); Isidore B. Fleischer (University of Nancy, Professor Dieudonne); John B. Hanson (California Institute of Technology, James Bonner); Donald G. Higman (McGill University, Hans Zassenhaus); Martin J. Klein (Dublin Institute for Advanced Studies, E. Schrödinger); Dan L. Lindsley, Jr. (Princeton University, K. Cooper); Ariel G. Loewy (University of Cambridge, Kenneth Bailey); Edward A. Mason (University of Wisconsin, J. O. Hirschfelder); Robert G. Mills (Princeton University); Norbert Muller (University of Chicago, R. S. Mulliken); John E. Sanders (U.S. National Museum, G. Arthur Cooper); William G. Van der Kloot (University of Cambridge, William H. Thorpe).

Five awards were made under a new fellowship program, the Lilly Research Laboratories Postdoctoral Fellowships in the Natural Sciences. These fellowships are to further the training of young men and women who have demonstrated marked ability for fundamental research in the natural sciences. The new Lilly fellows are: John H. Barrett (Massachusetts Institute of Technology, J. C. Slater); Albert W. Burgstahler (Harvard University, G. Stork); David P. Hackett (University of London, T. A. Bennet-Clark); David S. Hogness (Institut Pasteur, Jacques Monod); Michael M. Robison (University of Cambridge, H. J. Emeleus).

The RCA Predoctoral Fellowships in Electronics, supported by the Radio Corporation of America, are to give special graduate training in electronics to young men and women of marked ability. The 1952-53 awards were to Harry Dreicer (Massachusetts Institute of Technology, S. C. Brown and W. P. Allis) and William R. Grow (Stanford University, Lester M. Field). Renewal awards were made to Casper W. Barnes (University of Florida, W. W. Harman); Bernard E. Keiser (Washington University, D. F. Winter); Seymour Stein (Harvard University, Ronald W. King).

Miscellany

Calling for a five-year French atomic energy development program, Premier Pinay's Cabinet has approved a plan for spending \$107,000,000 on nonmilitary research aimed primarily at aiding industry and medicine.

Yale University has signed a contract with the AEC to step up its linear accelerator to twenty million volts. The present accelerator, designed by H. L. Schultz and W. G. Wadley of the Yale physics department, has been operating in the energy region between four and five Mev, and its capacity is believed to be about ten Mev. The enlarged machine will be housed in a unit of the recently authorized physics building which is to be constructed on the Yale campus.

In San Antonio, Texas, Trinity University and the Southwest Foundation for Research and Education have