

Americans, roughly one in three, are infected with the tubercle bacillus.

"The sharp decline in death rate, one of the most dramatic and best publicized recent developments, seems a less glorious victory when it is realized that last year about 16,000 persons died from tuberculosis, a preventable disease."

British Research Budget

Britain is devoting 60 percent of her budget for scientific research and development to national defense. The figure is 34 percent for the United States.

On a proportional basis, Britain probably is spending as much of the wealth she produces each year on research and development as the United States, if not more. Altogether, however, U.S. expenditures on civil research and development are 10 times as great as those of the British.

These figures were given at the recent meetings of the British Association for the Advancement of Science. They had been compiled by Ernest Rudd of the intelligence division of the Department of Scientific and Industrial Research.

Abortion in the U.S.S.R.

On 23 Nov. 1955 the Presidium of the Supreme Soviet of the U.S.S.R. passed a decree repealing the prohibition on abortion that had been in force for almost 20 years. This is the third time in the 39 years of its existence that the Soviet Union has changed its stand on the question of permitting or prohibiting abortion on other than "therapeutic" grounds. Soviet legislation on abortion falls into four distinct periods: 1917-20, in which abortions were illegal, even on medical indications; 1920-36, in which abortions were legal provided that certain conditions were met; 1936-55, in which abortions again were illegal, except on certain medical indications; and 1955 to the present, in which abortions are again legal.

Radiation in Monkeys

A long-term research project to study the effects of atomic radiation on monkeys throughout their entire lifetime will begin at the University of Wisconsin this year. The study will be started with an initial grant of \$172,500 from the National Institutes of Health; this amount will finance work during the first year of the program.

To house the project, the Wisconsin Alumni Foundation has agreed to construct a \$250,000 addition to the ARF building, which is used by the university's

Primate Laboratory. Rent on the addition, to be used exclusively for the radiation project, will come from overhead on federal contracts.

The project will have two broad purposes: to learn the direct effect of radiation damage upon the physiological function of the various organs; and to use radiation as a tool in studies of aging. The research will be directed by Harry Harlow, director of the Primate Laboratory; John Z. Bowers, dean of the University of Wisconsin Medical School; D. Murray Angevine, professor of pathology; Van R. Potter, professor of cancer research; Robert F. Schilling, professor of medicine and cancer research; and Paul H. Phillips, professor of biochemistry.

News Briefs

■ Three American astronomers went to the U.S.S.R. this month to attend the dedication of the Buraken Astrophysical Observatory of the Armenian Academy of Sciences, in Russian Armenia, 8-24 Sept., and to participate in a symposium on nonstable stars that was held during the same period. The group included Nancy G. Roman of the Naval Research Laboratory, Washington, D.C.; George H. Herbig of the University of California's Lick Observatory; and Jesse L. Greenstein of the Mount Wilson Observatory of the California Institute of Technology.

■ A telephone that transmits pictures along with sound so that users may see each other on a 2- by 3-inch screen has been developed by Bell Telephone Laboratories. The instrument is the first system of its kind to use a pair of ordinary telephone wires. It has been in operation on an experimental basis between New York and Los Angeles.

■ The Australian Government has announced that it will undertake the first marsupial census ever made. The survey will begin in New South Wales, where there are more than 40 marsupial species. The animals range in size from a 3-inch mouselike marsupial to the great gray kangaroo that measures 6 feet. The settlement of the country and the introduction of the fox have been fatal to many species, some of which have entirely vanished, while others have been so reduced in numbers that they are on the verge of extinction.

■ Members of the British North Greenland Expedition were permitted to sleep at any time during the 24-hour Arctic night, and they went to bed and took naps at all times. However, when the amount of sleep was totaled up for a

month, it was found that each man averaged a conventional 7.9 hours of sleep per day. H. E. Lewis and J. P. Masterton of the Medical Research Council, London, reported these findings at the recent meeting of the British Association for the Advancement of Science.

Scientists in the News

WESLEY T. HANSON, JR., head of the color photography division of the Eastman Kodak Research Laboratories, Rochester, N.Y., has been selected as the first recipient of the Herbert T. Kalmus gold medal award of the Society of Motion Picture and Television Engineers. The medal is awarded for "outstanding contributions in the development of color films, processes, techniques or equipment useful in making color motion pictures for theater or television use." Presentation will take place 9 Oct., during the society's 80th convention at the Ambassador Hotel in Los Angeles, Calif.

WARREN E. WILSON, George Westinghouse professor of engineering education at Pennsylvania State University, has been appointed dean of the Pratt Institute School of Engineering.

DONALD H. HALE, colonel in the Chemical Corps, U.S. Army, and commanding officer of the Chemical Warfare Laboratories, Army Chemical Center, Md., retired on 31 Aug. He was awarded a Certificate of Achievement for 32 years of superior service to the Army and the Chemical Corps. His command of the Chemical Warfare Laboratories climaxed a long association with research and development.

He received his Ph.D. in physics in 1940 from the University of California. Among his assignments in the Army were chief of the U.S. Army Radiological Defense School; chemical officer of the 7th Army, European Command; commanding officer of Dugway Proving Ground, Utah; chief of the Research and Development Division, Office of the Chief Chemical Officer. Hale has been appointed technical assistant to the manager of the Central Engineering Department of Food Machinery and Chemical Corporation in San Jose, Calif., effective 1 Oct.

BRUNO J. WOJCIK has been appointed manager of research and development for the industrial chemicals division of the Olin Mathieson Chemical Corporation. He joined the company in 1950 and has served in various research capacities. Two other new appointments are BERNARD H. NICOLAISEN, assistant manager of research and development in charge of the division's labo-

ratories at Niagara Falls, N.Y., and CHESTER WHITE, supervisor of the Rochester, N.Y., laboratories.

Four appointments to the staff of the John Jay Hopkins Laboratory for Pure and Applied Science have been announced by the General Atomic Division of General Dynamics Corporation: MARTIN O. STERN from Carnegie Institute of Technology, NORMAN ROSTOKER from Armour Research Foundation, and ANDREW W. McREYNOLDS and HARVEY P. SLEEPER, JR., from Brookhaven National Laboratory.

FRANCIS McCAFFREY, formerly of the Naval Ordnance Test Station at China Lake, Calif., has been appointed associate professor of physics at Boston College, where he will continue research in photoconductive mechanisms in semiconductors.

WARD C. SANGREN, a senior mathematician at Oak Ridge National Laboratory since 1951, has joined the General Atomic Division of General Dynamics Corporation, San Diego, Calif. He is known for his work on the solution of reactor problems through the use of high-speed calculating machines and for advanced theoretical work on boundary value problems, eigenvalue problems, and nonlinear differential equations.

SEWARD E. MILLER, chief of the Division of Special Health Services of the Bureau of State Services, U.S. Public Health Service, has been granted a leave of absence to accept the directorship of the University of Michigan's Institute of Industrial Health.

JOEL O. HOUGEN, professor of chemical engineering at Rensselaer Polytechnic Institute since 1948, has joined the engineering department of Monsanto Chemical Company's Research and Engineering Division, St. Louis, Mo. He will be a member of the newly organized section concerned with special research in automatic control of chemical processes.

CARL OLSON, JR., chairman of the department of animal pathology and hygiene at the University of Nebraska, has been named professor of veterinary science at the University of Wisconsin. He will fill the position vacated by CARL BRANDLY, who has accepted appointment as dean of the College of Veterinary Medicine at the University of Illinois.

RAY G. DAGGS has resigned as director of research for the Army Medical Research Laboratory at Fort Knox, Ky., to accept the position of executive secretary-treasurer of the American Physi-

ological Society, Washington, D.C. MILTON O. LEE, former executive secretary, will continue as managing editor and as secretary of the Federation of American Societies for Experimental Biology.

RALPH S. MUCKENFUSS, former scientific director of the Naval Biological Laboratory at the University of California, has recently joined the staff of the Naval Medical Research Institute, Bethesda, Md., as technical director.

RICHARD H. GRAHAM, formerly chief of the reactor engineering section of the division of reactor development for the U.S. Atomic Energy Commission in Washington, D.C., has joined Lockheed's Missile Systems Division as staff scientist for nuclear engineering.

CHARLES F. KETTERING, inventor and General Motors research consultant, received a scroll from the American Medical Association at a celebration of his 80th birthday. The citation was in recognition of his contribution to science. More than 1000 attended the presentation, which took place in Dayton, Ohio.

CLYDE KLUCKHOHN, professor of anthropology in the Laboratory of Social Relations at Harvard University, has been named to the 2-year appointment of chairman of the division of anthropology and psychology at the National Academy of Sciences-National Research Council.

JONAS N. MULLER has been named professor and director of the department of preventive medicine, public health, and industrial hygiene at the New York Medical College, Flower and Fifth Avenue Hospitals. Muller, who has been with the American Public Health Association in New Haven, Conn., since 1952, succeeds HELEN WALLACE, who has gone to the School of Public Health at the University of Minnesota.

HENRY A. PILSBRY, conchologist who will be 94 years old in December, has returned to the Academy of Natural Sciences of Philadelphia after an absence because of illness. He is again in charge of the academy's department of mollusks, of which he is curator. He has been on the academy's staff for nearly 70 years.

Col. WARREN C. EVELAND, (MC) USA, has been appointed chief of the bacteriology and immunology section of the Armed Forces Institute of Pathology, Washington, D.C. Prior to reporting to his new assignment on 27 Aug., Eveland had been on duty at the Army's 406th Medical General Laboratory in Tokyo, Japan.

Recent Deaths

MARY BICKINGS-THORNTON, Philadelphia, Pa.; 76; professor emeritus of anatomy at Woman's Medical College; 7 Sept.

BENJAMIN M. DUGGAR, Pearl River, N.Y.; 84; research consultant at Lederle Laboratories; retired professor of botany at the University of Wisconsin; Member of AAAS Executive Committee, 1925; vice president AAAS Section G, 1926; 10 Sept.

ISAAC H. JONES, Los Angeles, Calif.; 75; pioneer in aviation medicine, who until recently was conducting research at the University of California; 7 Sept.

NORMAN McINDOO, Washington, D.C.; 75; retired senior entomologist in the insecticide division of the Department of Agriculture; 7 Sept.

OTTO Y. SCHMIDT, Moscow, U.S.S.R.; 64; geographer and mathematician, who at various times was on the staff of the University of Moscow, chief editor of the *Soviet Encyclopedia*, and director of the Soviet State Publishing House; 7 Sept.

H. KIRK STEPHENSON, Chevy Chase, Md.; 43; program director for Earth Sciences at the National Science Foundation; 2 Sept.

BALDWIN M. WOODS, Berkeley, Calif.; 68; retired vice president of the University of California and former chairman of the department of mechanical engineering; 7 Sept.

HELEN YARNELL, New York, N.Y.; 52; former senior psychologist at the Bronx center of the city Board of Education's Bureau of Child Guidance; 8 Sept.

Education

■ Dedication ceremonies for the University of Florida's Medical Sciences Building, first unit of the J. Hillis Miller Health Center, have been scheduled for 12 and 13 Oct. The program will include addresses by Detlev Bronk of the Rockefeller Institute for Medical Research and Wendell Stanley, head of the University of California's Virus Laboratory.

The University of Florida's first class in medicine was admitted this fall and began classes in the new building. The College of Nursing was also opened for the first time, although headquarters for the college will be the Teaching Hospital, now under construction.

■ The State University of New York College of Medicine in Brooklyn is being transformed into a modern medical center. Highlights of the opening of its 96th academic year this fall are a new \$14.5-million Basic Sciences Building, a revised