

white men for the first time. Except for two diamond prospectors who briefly visited the Kalahari Desert some years ago, the Bushmen have not seen any other white people in their territory. However, the Bushmen have recently had increasing contact with Bantus, and it is feared that the distinctiveness of Bushman culture will soon be lost. The current expedition is headed by Laurence K. Marshall of Cambridge, Mass., who led the previous five visits to the Kalahari Desert.

Harvard-Guggenheim Center for Aviation Health and Safety

Thirteen military and civilian doctors and engineers are registered in the first postgraduate study program in the Harvard-Guggenheim Center for Aviation Health and Safety now underway at Harvard University's School of Public Health in Boston. The center, the fifth and newest aviation research center established in the United States by the Daniel and Florence Guggenheim Foundation, is under the technical direction of Ross A. McFarland, associate professor of industrial hygiene at Harvard. This is the first center set up by the foundation to deal directly with aviation health and safety. Support of the program is through a \$250,000 grant, extending over a 5-year period.

At the new center, attention is focused on the unification of basic research involving studies of human problems in the era of jet aircraft; advanced training for physicians, biological scientists, and aeronautical engineers in problems involving aviation health and safety; and establishing a clearing house for technical information on aviation health and safety. The center is utilizing the interdisciplinary or team approach in its instruction program. This effectively coordinates the work of such diverse specialists as engineers, physicians, psychologists, physiologists, and anthropologists. Most of the departments in the School of Public Health, and specialists elsewhere in Harvard University, are participating in the instruction.

News Briefs

The new headquarters building of the Atomic Energy Commission near Germantown, Md., was dedicated on 8 November. The commission's Washington staff is expected to move to the new location in the first half of January.

Heini Hediger, European animal behaviorist and director of the zoo in Zurich, Switzerland, has opened what he calls a "museum of human imbecil-

ity" in relation to caged animals. It consists of a collection of objects, including many sharp weapons, found in cages or taken from zoo visitors.

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On 4 December, in the second trans-Atlantic medical conference in history, scientists in the United States and Great Britain will exchange research information on cancer chemotherapy over the new undersea cable. The conference will last 1¼ hours. Three world medical centers will be linked: Philadelphia, where the American Medical Association will be convened in its 11th annual Clinical Meeting; London, where a special panel will meet in Barnes Hall of the Royal Society of Medicine; and Bethesda, Md., where the program will be heard at the National Institutes of Health. The conference will be sponsored by the AMA and the Royal Society of Medicine in cooperation with Smith, Kline & French Laboratories.

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A building housing pharmacy research and development laboratories was dedicated by CIBA Pharmaceutical Products, Inc., at Summit, N.J., on 21 November. The new structure contains 18 research laboratories and 27 additional special-purpose rooms. The laboratories are headed by Jack Cooper, director of the Pharmacy Research and Development Division.

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On 4 November President James B. Killian of Massachusetts Institute of Technology and President Nathan M. Pusey of Harvard University broke ground for the Cambridge Electron Accelerator. The two institutions are co-operating in the design and operation of the new \$6-million machine, which is expected to go into operation in January 1960.

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Former President Herbert C. Hoover and Detlev W. Bronk, president of the National Academy of Sciences, will be the principal speakers on 1 December when bronze busts of George Westinghouse and Josiah Willard Gibbs are unveiled at the Hall of Fame for Great Americans at New York University. Westinghouse invented the air brake and many electrical devices. Gibbs, a mathematical physicist and professor at Yale University, formulated the theory of thermodynamics, the basis for much of modern physical chemistry and chemical engineering.

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The Council of the Oak Ridge Institute of Nuclear Studies announced at its 13th annual meeting that West Virginia University had joined the institute as a sponsoring university. The admission of West Virginia brings the total of ORINS sponsors to 36.

Scientists in the News

J. ROBERT OPPENHEIMER, internationally known nuclear physicist and director of the Institute for Advanced Study, Princeton, N.J., has been awarded the French Legion of Honor, France's highest civilian award.

BURTON W. ADKINSON, director of the Reference Department of the Library of Congress, has succeeded the late Alberto F. Thomson as head of the Office of Scientific Information at the National Science Foundation.

WILLIAM K. LIVINGSTON, head of the department of surgery at the University of Oregon Medical School, will retire on 1 January. He will remain on the surgery staff on a part-time basis with the rank of professor, and he will continue his research on the causes of pain. Livingston received his medical degree from Harvard University in 1920. He practiced in Eugene and Portland, Ore., and served in both world wars—attaining the rank of captain in the U.S. Navy medical corps reserve at the time of his discharge in 1946. A year later, he assumed the Kenneth A. J. Mackenzie chair of surgery at the Oregon Medical School. In that same year he was chosen to give the Lord Moynihan Lecture at the Royal College of Surgeons, London. Livingston is the author of two medical books, *The Clinical Aspects of Visceral Neurology*, published in 1937, and *Pain Mechanisms*, published in 1947.

THOMAS K. PAVLYCHENKO, formerly research professor and head of the department of plant ecology at the University of Saskatchewan, Saskatoon, Canada, and at present director of agricultural research for the American Chemical Paint Company, Ambler, Pa., was honored for his research achievements on the occasion of his 65th birthday, 20 October, in Saskatoon. Pavlychenko developed a method for quantitative studies of the root systems of plants grown under natural field conditions. He found that a single grass plant (*Agropyron cristatum*) grown for two seasons without competition, produced 319.5 miles of root fibres, thus binding the loose soil to resist erosion forces and to compete with weeds.

WARREN K. LEWIS, professor emeritus of chemical engineering at Massachusetts Institute of Technology, received the American Petroleum Institute's Gold Medal for Distinguished Achievement during the institute's recent annual meeting in Chicago. Lewis is known for his work in fractionation in refining, in solvent recovery systems, and in vacuum distillation of lubricating oils.

FREDERICK N. RHINES, professor of light metals at Carnegie Institute of Technology, received the Henry Marion Howe Medal during the recent American Society for Metals' 39th National Metals Exposition and Congress in Chicago. This award is given annually for the best paper published in the society's Transactions. Rhine was honored for an article on "Grain Boundary Creep in Aluminum Bicrystals," which he wrote jointly with W. E. Bond and M. A. Kissel.

Leaders of industry and alumni and faculty of Cornell University recently held a recognition dinner to honor FRED RHODES, who retired from Cornell in June as professor emeritus of chemical engineering. He was the founder and first director of the School of Chemical Engineering at Cornell. During the dinner Rhodes was presented with a symbolic gift representing \$350,000 which is being raised to endow the Rhodes chair of chemical engineering at Cornell.

JOHN C. BUGHER, director of medical education and public health at the Rockefeller Foundation in New York, will present the second annual Carl V. Weller Lecture at 5 P.M. on 14 December in the University of Michigan's Horace H. Rackham Amphitheater. Bugher's topic will be "The Role of the Pathologist in Medicine." Sponsored by the Michigan Pathological Society, the annual Weller lectures were originated in 1956 in honor of the University of Michigan pathologist who was chairman of the department of pathology for 30 years.

HUGO BENIOFF, professor of seismology at the California Institute of Technology, has received the Arthur L. Day Medal of the Geological Society of America in recognition of outstanding contributions to geologic knowledge through the application of physics and chemistry to solution of geologic problems.

MOREAU S. MAXWELL, who has been chief of the arctic branch at the Arctic, Desert, Tropic Information Center, Maxwell Air Force Base, and who formerly taught anthropology at Beloit College, has been named curator of anthropology at the Michigan State University Museum and associate professor in the university's department of sociology and anthropology. One of his duties will be to develop further a graduate research program in archeology.

EDWIN DIAMOND, formerly science writer for International News Service, has been named science editor of *News Week*.

WENDELL A. HORNING, formerly head of reactor theory at the Ramo-Wooldridge Corporation, Los Angeles, Calif., has joined Atomics International, a division of North American Aviation, Inc., as group leader of theoretical neutron physics.

IRA D. CLARKE has retired from the U.S. Department of Agriculture after 40 years of service as a research chemist. He is a specialist in hides and skins, tanning materials, and leather. Clarke graduated from Butler University in 1912. After a brief career as a high-school teacher in Oklahoma and as assistant chemist at Iowa State College, he became a chemist for the USDA's Bureau of Chemistry in Washington in 1917. In 1941 he transferred to the new Eastern Regional Research Laboratory in Wyndmoor, Pa., where he has been since that time.

EUGENE P. WIGNER, Thomas D. Jones professor of mathematical physics at Princeton University, has begun a 2-month residency as visiting professor in the Enrico Fermi Institute for Nuclear Studies at the University of Chicago.

J. F. DOWNIE SMITH, dean of engineering at Iowa State College for the past 10 years, has been named a vice president of the Carrier Corporation and head of its Central Research and Development Division, effective 1 January 1958.

MAHGUL MOHAMAD ALI of Kabul, Afghanistan, graduate of La Fatima Jinnah Medical College in Lahore, Pakistan, and the first Afghan woman doctor, has been enrolled as a special student at the Woman's Medical College of Pennsylvania.

HAROLD S. JOHN, first holder of the Wilder chair in botany at the University of Hawaii, has been elected an honorary member of the Botanical Society of Japan. Election to the honor was conferred at the Diamond Jubilee celebration of the society, in Tokyo, 12-15 October.

THEODORE H. INGALLS, associate professor of epidemiology at the Harvard University School of Public Health, has been appointed professor of preventive medicine and epidemiology at the University of Pennsylvania, effective July 1958. At Pennsylvania, he will carry on a long-term study of methods for the early detection of chronic diseases, an activity supported by a 5-year grant from the W. K. Kellogg Foundation. In addition, he will develop projects for evaluating radiation hazards and for the control of congenital defects.

Recent Deaths

JESSE O. ARNOLD, Philadelphia, Pa.; 89; professor emeritus of obstetrics at Temple University Medical School; 3 November.

CHARLES BAGLEY, Jr., Baltimore, Md.; 75; professor emeritus of neurosurgery at the University of Maryland Medical School; 2 November.

HOMER W. CLOUGH, Richmond Hill, N.Y.; 88; retired meteorologist who served the U.S. Weather Bureau from 1893 to 1928; author of statistical analyses of meteorological and solar data; 27 October.

R. FINLEY GAYLE, Jr., Richmond, Va.; 65; psychiatrist and head of the psychiatric department at the Medical College of Virginia; past president of the American Psychiatric Association; author of many articles on psychiatry; 4 November.

HERBERT F. GERALD, Lake Zurich, Ill.; 76; professor emeritus of physiology and pharmacology at Creighton University and former chairman of the department; had been associated with the university since 1912; 18 October.

RICHARD C. HUBLEY, Fairbanks, Alaska; 31; geologist; coordinator of all United States glacial research in the Northern Hemisphere as part of the International Geophysical Year; 28 November.

EDWARD J. KEEGAN, Floral Park, N.Y.; 56; chairman of the biology department at St. John's University; 27 November.

B. K. NORTHROP, Ithaca, N.Y.; 64; professor of electrical engineering at Cornell University since 1929; 25 October.

THOMAS ROBINS, Stamford, Conn.; 89; inventor; founder and former chairman of the board of the Hewitt-Robins Company, Stamford, Conn.; the conveyor belt he devised and later perfected for Thomas A. Edison is used by industry in most countries throughout the world; 4 November.

C. W. SCHWARTZ, White Plains, N.Y.; 66; retired physician and radiologist and former associate professor of radiology at the College of Physicians and Surgeons of Columbia University; 30 October.

G. ALEXANDER YOUNG, Omaha, Neb.; 81; former head of the department of neuropsychiatry at Creighton University and the University of Nebraska; pioneered in the use of insulin in the Midwest for treatment of mental illness; 3 November.

Erratum: The value of the ratio of "apparent" retention volumes $(V'_R)_H/(V'_R)_D$, given in paragraph 2, sentence 3 of the report, "Isotope Effects in Gas-Liquid Chromatography," by K. E. Wilybach and P. Riesz [*Science* 126, 748 (18 October 1957)], should have been 1.08 ± 0.01 instead of 1.80 ± 0.01 .