

ciated Rocky Mountain Universities, Inc. Every public and private institution in the eight mountain states that offers a master's degree in science is a participant in ARMU. The corporation is designed to attract new scientific installations to the Rocky Mountain area by offering the cooperative efforts of its members to the solution of the scientific and management problems involved.

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An agreement between the Department of Defense and the National Aeronautics and Space Administration, making available DOD's Industrial Security Program to NASA, has eliminated the need for the civilian space agency to establish a similar program. The agreement authorizes DOD to act on behalf of the NASA in security matters relating to contractors.

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The International Atomic Energy Agency issued a directory of power reactors now in operation or under construction in various parts of the world. This is the agency's first major scientific publication; directories of other types of reactors are under preparation. In all, 36 power reactor projects have been included in the directory, 15 in the United States, eight in the United Kingdom, four each in France and the U.S.S.R., and one each in Belgium, Canada, Czechoslovakia, Germany (Federal Republic), and Sweden. In some cases a project comprises more than one reactor. The reactors have been grouped in six categories, according to the coolant used.

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A bust of Ales Hrdlicka (1869-1943), world-famous anthropologist who was associated with the Smithsonian Institution for 40 years, was presented recently to the Smithsonian's National Museum by Miloslav Ruzek, ambassador of the Czechoslovak Republic to the United States. The gift was made on behalf of several educational and cultural groups of Czechoslovakia as a memento of the recent observances in that country marking the 15th anniversary of Hrdlicka's death and the 90th anniversary of his birth.

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The federal budget now allocates some \$6.8 billion to research on weapons and less than 4 percent of that amount to all medical research, according to Senator Richard Neuberger in an address to the National Conference on World Health in Washington last month.

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The U.S. Office of Education, Washington 25, D.C., has announced publication of its second annual review and digest of state legislation affecting higher education. The report was prepared by the Division of Higher Education pri-

marily for use in planning future programs and budgets for colleges and universities. The new publication, *Survey of State Legislation Relating to Higher Education*, covers the period 1 July 1957 to 30 June 1958.

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As the final part of its survey of the over-all United States research and development effort during 1953-54, the National Science Foundation has released *Scientific Research and Development in Colleges and Universities—Expenditures and Manpower, 1953-54*. The 173-page publication may be obtained for \$1 from the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.

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The National Aeronautics and Space Administration has formed the Committee on an Equatorial Range to study the need for, and the technical feasibility of, an equatorial launching site. John P. Hagen, assistant director for program coordination in the Office of Space Flight Development, is chairman of the new group.

Scientists in the News

The National Academy of Sciences-National Research Council recently announced the election of the following foreign associates.

V. A. AMBARTSUMIAN, director of the Burakan Observatory, Erevan, Soviet Armenia.

Sir EDWARD C. BULLARD, assistant director of research, department of geodesy and geophysics, Cambridge University, England.

MAX HARTMANN, Max Planck-Institute für Biologie, Tübingen, Germany.

W. V. HODGE, Lowndean professor of astronomy and geometry, Cambridge University, England.

NIELS BOHR, director of the Institute for Theoretical Physics at the University of Copenhagen, Denmark, and 1922 Nobel Prize winner, delivered an address at the dedication of the John Jay Hopkins Laboratory for Pure and Applied Science of the General Dynamics Corporation, on 25 June. The new laboratory is in San Diego, Calif.

The Gravity Research Foundation has announced the winners of its annual awards for the five best essays on gravity.

J. WEBER, professor at the University of Maryland, received the first award of \$1000.

M. E. ROSE, chief physicist at Oak Ridge National Laboratory, received the second award of \$300.

H. BONDI, professor at the University of London, King's College, received the third award of \$200.

HUSEYIN YILMAZ, Institute for Advanced Study, Princeton, N.J., received the fourth award of \$150.

MAURICE ALLAIS of Paris, received the fifth award of \$100, and O. COSTA DE BEAUREGARD, also of Paris, earned an honorable mention.

Medicine and the Stars, one of the first Japanese technical publications on space medicine, has been dedicated to HUBERTUS STRUGHOLD, professor of space medicine and adviser for research at the School of Aviation Medicine, Randolph Air Force Base, Tex. The book covers a great deal of the pioneer research work that Strughold and his colleagues began in 1947.

The American Academy of Arts and Sciences, at its 179th annual meeting, elected 113 new fellows from 19 states of the United States, and 21 foreign honorary members from 11 countries. Four women were included in this number, one of them, ANNA FREUD of London, being the fourth female foreign honorary member in the history of the academy. At the same meeting, officers for the academy for 1959-60 were elected. KIRTLEY F. MATHER, emeritus professor of geology at Harvard University, was reelected president for another year. The new foreign scientist members, including Dr. Freud, are as follows.

Mathematics. A. N. KOLMOGOROV, Academy of Sciences, Moscow, U.S.S.R.; JEAN LERAY, Collège de France, Paris.

Physics. MAX BORN, Edinburgh University, Bad Pyrmont, Germany; Sir WILLIAM L. BRAGG, Royal Institution, London, England.

Astronomy. MARCEL G. J. MINNAERT, University of Utrecht, Utrecht, Netherlands.

Engineering sciences. GEORGE K. BATCHELOR, University of Cambridge, Cambridge, England.

Biophysics and biochemistry. Sir JOHN C. ECCLES, Australian National University, Canberra; DAVID KEILIN, Cambridge University, Cambridge, England.

Botany and bacteriology. HITOSHI KIHARA, National Institute of Genetics, Misima, Japan.

Zoology. JEAN BRACHET, University of Brussels, Brussels, Belgium; PETER B. MEDAWAR, University College, London, England.

Medicine. Sir GEORGE W. PICKERING, Oxford University, Oxford, England.

Social relations. ANNA FREUD, London, England.

GLENN T. SEABORG, chancellor of the University of California, Berkeley, and Nobel laureate, has been made an honorary fellow of the Chemical Society of Great Britain, the highest honor that can be conferred on a foreign colleague.

LUIGI M. VENANZI of Oxford University, England, will give a series of chemistry lectures at Rutgers University, 20 July–14 August. His topic will be "Coordination and Organo-Metallic Compounds."

NICHOLAS FUSCHILLO, head of the Magnetics and Semiconductor Branch at Franklin Institute, Philadelphia, has joined CBS Laboratories, Stamford, Conn., as head of the solid state physics department. ALFRED E. KASPAUL, with CBS since 1957, has been appointed technical manager of Solid State Physics Laboratories.

J. H. PIDDINGTON, radio astronomer with the Division of Radiophysics of the Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia, has received the Royal Society of New Zealand's T. K. Sidey (Summertime) Award, for a theoretical explanation of heating in the atmosphere of the sun.

W. W. GRIGORIEFF, chairman of the University Relations Division of the Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tenn., has returned from a year's service in the Exchange and Training Division of the International Atomic Energy Agency, Vienna, Austria.

WILLIAM S. JOHNSON, Homer Adkins professor of chemistry at the University of Wisconsin, has been named head of Stanford University's chemistry and chemical engineering department, effective in 1960. He will succeed GEORGE S. PARKS, who will become emeritus head this year.

CARL DJERASSI, professor of chemistry at Wayne State University, on leave in Mexico City, has been appointed professor of chemistry at Stanford, effective in September, but will remain on leave for another year. He is vice president for research of Syntex, S.A., hormone manufacturing firm in Mexico City.

Recent honorary degrees include the following.

DANA W. ATCHLEY, professor emeritus of clinical medicine at Columbia University, from Columbia University.

LLOYD V. BERKNER, president of Associated Universities, Inc., from Columbia University.

ARTHUR H. BILL, retired head of Western Reserve University Medical

School's department of obstetrics, from Marietta College.

DEREK E. DENNY-BROWN, professor of neurology at Harvard University and director of neurological research at Boston City Hospital, from Wayne State University.

VANNEVAR BUSH, chairman of the corporation of the Massachusetts Institute of Technology, from Boston University.

JAMES B. FISK, president of Bell Telephone Laboratories, from Newark College of Engineering.

DONALD A. GLASER, professor of physics at the University of Michigan, from Case Institute of Technology.

LLOYD A. HALL, technical director, the Griffith Laboratories, Inc., Chicago, from Howard University, Washington, D.C.

NEWMAN H. HALL, chairman of the Yale University department of mechanical engineering, from Marietta College.

ALFRED B. JEPSON, senior group adviser for Boeing Aircraft Corporation, from Case Institute of Technology.

JOHN W. JORDAN, technical director of Baroid Division of National Lead Company, from Marietta College.

MERVIN J. KELLY, retired chairman of the board of Bell Telephone Laboratories, from Case Institute of Technology.

JAMES C. KONEN, vice president of Archer-Daniels-Midland Company, Minneapolis, Minn., from North Dakota Agricultural College.

CHAUNCEY D. LEAKE, assistant dean at Ohio State University College of Medicine, from Kenyon College.

MURRAY GELL-MANN, professor of physics at California Institute of Technology, from Yale University.

ERNST MAYR, professor of zoology at Harvard University, from Yale University.

ROBERT F. MEHL, head of the department of metallurgy and dean of the Graduate School of Carnegie Institute of Technology, from Case Institute of Technology.

FAIRFIELD OSBORN, president of the Conservation Foundation and the New York Zoological Society, from Kenyon College.

M. J. RATHBONE, president of Standard Oil of New Jersey, from Marietta College.

DAVID B. STEINMAN, bridge engineer, from Syracuse University.

ERNST WEBER, president of the Polytechnic Institute of Brooklyn, from Newark College of Engineering.

JOHN R. HELLER, director of the National Cancer Institute of the U.S. Public Health Service, has received the 1958 Wien Award for his outstanding contributions to cancer cytology.

RALPH S. HALFORD has resigned as chairman of Columbia University's department of chemistry to serve as provost for projects and grants, a newly established office. He will continue to teach and conduct research.

KUNDAN S. SINGWI, head of the theoretical physics and applied mathematics division at the Atomic Energy Establishment of India, Trombay, has been appointed resident research associate at the Argonne National Laboratory for 2 years.

Recent Deaths

HARRY BAUM, New York; 76; chairman of the department of electrical engineering at City College from 1935 until his retirement in 1949; served as engineering and technical adviser to the Board of Higher Education; 6 June.

HERBERT P. EVANS, Madison, Wis.; 59; chairman of the University of Wisconsin Extension Division's department of mathematics since 1945; taught in the mathematics department of the university's College of Letters and Science, and was in charge of the elementary mathematics program for students there and in the College of Engineering; 2 June.

JAMES L. GAMBLE, Brookline, Mass.; 75; professor of pediatrics at Harvard University Medical School from 1929 until his retirement in 1950; instructor in pediatrics at the Johns Hopkins University Medical School, 1915–22; former president of the American Pediatric Society; 28 May.

JOHN M. HARGREAVES, Portland, Ore.; 58; former deputy surgeon general of the Air Force.

AMBROSE LANSING, Apache Junction, Ariz.; 67; anthropologist and egyptologist; curator emeritus of art of the Metropolitan Museum of Art in New York; 28 May.

GEORGE H. LOFTUS, Ridgewood, N.J.; 67; vice president of the Radium Chemical Company, Inc., New York; developed several new types of radium applicators for medicinal uses, including one for the prevention and treatment of deafness in children; 28 May.

Msgr. JOHN L. McNULTY, South Orange, N.J.; 60; president of Seton Hall University since 1949; directed the establishment of Seton Hall College of Medicine and Dentistry in 1956; 28 May.

C. B. POLLARD, Gainesville, Fla.; 59; professor of chemistry at the University of Florida, and a specialist in scientific crime detection and toxicology; 31 May.

CHARLES S. SWOPE, West Chester, Pa.; 60; president of West Chester State Teachers College since 1935; 1 June.