

If the plan is accepted and approved by the President and the Secretary of Agriculture, it will be financed out of federal funds.

AN AERIAL PHOTOGRAPHIC SURVEY

SECRETARY OF THE INTERIOR ICKES, acting on behalf of the Soil Erosion Service, awarded recently to the Fairchild Aerial Surveys, Inc., a contract for making the largest single aerial photographic mosaic map ever undertaken. This map will depict 24,500 square miles of the Navajo and Zuni Indian Reservations, of the three states of Arizona, New Mexico and Utah, an area which approximates the combined size of the five eastern states of Connecticut, Massachusetts, New Hampshire, Delaware and Rhode Island.

The map will be a mosaic assembled from more than 4,500 individual aerial photographs, and will be on a scale of one inch to 2,300 feet, with dimensions of approximately 40 feet by 24 feet. The photographs will be taken from an altitude of over 20,000 feet. The camera to be used is a specially designed four-lens topographic map machine, the four prints of which are transformed into a single picture. These pictures can be used in the Stereoplanigraph to produce actual contour maps of any part of the photographed area at a cost far below the cost of ground surveys. The map is needed in the work of erosion control, range rehabilitation and land-use planning now being carried out on the reservation by the Soil Erosion Service. The Indian Service and the Carnegie Institution are cooperating with the Soil Erosion Service in this undertaking.

At present there are no accurate maps of the greater part of the Navajo Reservation. Some portions of the reservation are actually unexplored. Accurate base maps are essential to intelligent planning in connection with the land-use readjustments and range improvements to be carried out. The total cost of the aerial survey will approximate \$77,000, whereas the cost of a ground survey would exceed \$500,000.

The conservation and rehabilitation work to be done on these Indian lands has been made necessary by the progressive impoverishment and destruction of the ranges by soil erosion following over-grazing. This depreciation of the land is proceeding so fast that very large areas will soon become practically uninhabitable unless remedial measures are immediately instituted and persistently pushed forward. Already numerous small areas and some of large extent have been essentially ruined, while most of the country where water is available for stock has been so severely used that it bears little resemblance to the original conditions.

THE RUDOLPH MATAS AWARD

THE medal of the recently created Matas Award in Vascular Surgery will be presented for the first time

on January 23. The recipient of this award will be Dr. Mont R. Reid, professor of surgery at the University of Cincinnati.

The fund by which this award is made possible was created by Mr. Mike S. Hart in compliance with the expressed desire of his sister, the late Miss Violet Hart, to do something to honor Dr. Matas. Mr. Hart drew up a deed of gift establishing the Violet Hart Fund to be administered by Tulane University. "The fund is to provide an award, to be known as the Rudolph Matas Award, to be made to that North American surgeon who has contributed outstanding work in vascular surgery." This award is to be made as the occasion arises by a committee of surgeons selected for life by the Hart family with the addition of the surgeon occupying the chair of surgery in the Under-Graduate School of Medicine, Tulane University.

The committee as constituted at present is composed of Dr. Emile Bloch, *chairman*, Dr. Lucien Landry and Dr. Isidore Cohn, with Dr. Alton Ochsner, the present occupant of the chair of surgery. The first presentation will be unique in that the medalist will receive the award from the hands of Dr. Matas.

The correspondent who sends us the above information writes:

Dr. Rudolph Matas is a native Louisianian of Spanish parentage. By education, training and interest he is a citizen of the world. Dr. Matas graduated from Tulane University in 1880. In 1895 he was made professor of surgery in his *alma mater*, and in this capacity he served until his retirement in 1927. He has been director of the Department of Surgery at Touro Infirmary since 1905. For more than fifty years he has been a member of the Charity Hospital Staff.

Many institutions have conferred honorary degrees on Dr. Matas. Among these are Washington University of St. Louis, LL.D., 1915; the University of Pennsylvania, Sc.D., 1925; Tulane University, Sc.D., 1926; Princeton University, Sc.D., 1928. He has also received many decorations from foreign countries, the most recent of these was conferred by the Republic of Spain on December 3, 1933. Dr. Matas was awarded the Bigelow Medal by the Boston Surgical Society in 1926. This honor he has shared with W. J. Mayo, W. W. Keen, J. M. T. Finney and Chevalier Jackson.

Dr. Matas has contributed in such diverse fields and his knowledge of the literature is so great that his colleagues have felt for many years that by consulting him they could extract more information from his encyclopedic mind than they could obtain from a visit to a library.

Vascular surgery has been one of the many phases of surgery to which he has devoted his energy. His contributions in this field represent an epoch in the advancement of surgical knowledge. His contributions to local and regional anesthesia, surgical diseases peculiar

to the Negro, and his studies in fractures stand as classics.

Dr. Reid, the recipient of the first award to be made, is at present professor of surgery at the University of Cincinnati. For years he served as assistant to the late Dr. W. S. Halsted, professor of surgery in The Johns

Hopkins University. During this association with Professor Halsted, Dr. Reid became an ardent admirer of Professor Matas and through the years his admiration and appreciation for Dr. Matas and Professor Halsted caused him to direct his efforts in the field of vascular surgery, in which he has won high distinction.

SCIENTIFIC NOTES AND NEWS

At the Boston meeting of the American Physical Society Professor Arthur H. Compton, of the University of Chicago, was elected president and Professor R. W. Wood, of the Johns Hopkins University, was elected vice-president.

PROFESSOR A. B. COBLE, of the University of Illinois, has been elected president of the American Mathematical Society for the year 1934. The vice-presidents are Professor J. W. Alexander, of Princeton University, Professor Marston Morse, of Harvard University, and Professor H. S. Vandiver, of the University of Texas.

DR. GEORGE H. PARKER, professor of zoology at Harvard University, has been elected president of the Society of the Sigma Xi.

DR. CHAS. F. MARVIN, chief of the U. S. Weather Bureau, has retired, having reached the age of seventy-five years. Dr. Marvin will have served the bureau for fifty years next September and until then is expected to remain in an advisory capacity. He was appointed chief of the bureau in 1913, the President acting on the advice of the National Academy of Sciences before making a selection. Dr. Marvin is succeeded by Dr. W. R. Gregg, who has been in the service of the bureau since 1904. Since 1915 Dr. Gregg has occupied the position of principal meteorologist and since 1917 has been in special charge of aerological investigations.

DR. JOHN L. RICE, who has served for ten years as public health officer of New Haven, Connecticut, has been appointed by Mayor LaGuardia commissioner of health of New York City. Dr. Rice is chairman of the section for health officers of the American Public Health Association. Dr. S. S. Goldwater, advisory expert for many institutions in the United States and abroad, consultant on health and hospitals to the Board of Estimate in 1917 and formerly head of Mount Sinai Hospital, has been appointed commissioner on hospitals.

PROFESSOR P. A. DANGEARD, director of the laboratory of botany at the University of Paris, has been elected vice-president of the Paris Academy of Sciences. Election to the presidency will follow automatically in 1935.

M. R. THIRY, professor of mechanics in the Univer-

sity of Strasbourg, has been elected a correspondent of the Paris Academy of Sciences in the section for mechanics.

THE *British Medical Journal* reports that Dr. Alexander von Lichtenberg, professor of surgery at Berlin, has been made a foreign member of the Swedish Medical Society; Dr. Max Heinrich, Fischer professor of cerebral investigation at Berlin, a corresponding member of the Royal Medical Academy at Rome, and Dr. Erich Lexer, professor of surgery at Munich, a foreign member of the Lombardy Surgical Society.

THE gold medal of Villanova College for 1934 will be presented on January 28 to Abbé Georg LeMaître, of Belgium, visiting professor at the Catholic University, Washington. The medal is presented annually by the college to a Catholic who has performed distinguished service to science.

THE Legion of Honor of France has been awarded to Dr. James H. Kimball, meteorologist since 1895 at the New York Station of the U. S. Weather Bureau, "for the aid he, as one of the world's foremost aviation weather authorities, gave to the French aviators flying the Atlantic."

CAPTAIN ALBERT W. STEVENS, U. S. Army Air Corps, has been awarded the Franklin L. Burr prize of the National Geographic Society of the value of \$1,000 in recognition of his work on aerial photography, particularly his photograph from 26,000 feet altitude of the moon's shadow during the total solar eclipse of 1932.

DR. JOSIAH F. REED was awarded the Seibert Memorial Prize of the Harrisburg Academy of Medicine at its annual banquet. The award, which is \$500, to be used in visiting medical centers in Europe, was established in memory of the late Dr. William Seibert, Steelton, by his sister, the late Anna Mary Seibert. It is given every two years to a member of the academy who has done notable work. Dr. Reed is an obstetrician on the staff of the Harrisburg Hospital.

At the thirty-first annual meeting of the American Society of Zoologists held at Cambridge from December 28 to 30, the following officers were elected: *President*, A. H. Sturtevant; *Vice-president*, H. W. Rand; *Secretary*, H. B. Goodrich; *Treasurer*, B. H. Willier; *Member of the Executive Committee*, Charles Zeleny.