Marshall Library Gets Cryptology Collection

matic cypher during World during World War II. War II, has been presented to search Library here.

it was the largest unclassified right, from her home in Wash ington today.

was considered the U.S. gov- ventions that were kept secret. ernment's leading cryptologist for almost half a century.

wife at Riverbank Laboratories in Illinois. The then Elizathe theory that Sir Francis Shakespeare's works.

Friedman began studying the ciphers that Bacon's adprobe had traveled 124 million miles as of 3 p.m. EDT. The craft is scheduled to begin orbiting Mars Nov. 13

Mariner 9 will be the first man-made object to orbit another planet and will investigate Mars with TV cameras and other instruments for as long as a year.

herents contended he had planted in a number of plays, and from then on he had found his career.

couple served as government new collections.

LEXINGTON, Va., Aug. 14 code experts. Mrs. Friedman (AP)—The cryptologic collection of the late Lt. Col. Wil-Treasury Department to unliam F. Friedman, the mathe-scramble codes used by rummatical genius credited with runners during Prohibition breaking the Japanese diplo and by the Navy as an analyst

Her husband, meanwhile, the George C. Marshall Re-was chief cryptoanalyst with search Library here. the War Department from The donation provides 3,000 1921 to 1947, when he became items dealing not only with chief cryptologist for the Demilitary subjects but also with fense Department. He was Friedman's side excursions also a special assistant to the into literary and archaeologi- director of the National Secucal coded mysteries. rity Agency during the 1950s. The remember hearing my and from 1955 until his death husband say many times that was a defense consultant.

For his contributions to the collection of cryptography and country, Friedman received cryptoanalysis in the world," the War Department's Comsaid Mrs. Friedman, a noted mendation for Exceptional Cicryptoanalyst in her own vilian Service. In 1956 Congress voted him \$100,000 as partial compensation for the Friedman, who died in 1969, commercial rights of his in-

Outside their government or almost half a century. service, the Friedmans pub-He first became interested lished "The Shakespearean in the subject, before World Ciphers Examined," which re-War I when he met his future futes the Baconian theory, wife at Riverbank Laborato They also studied archaeological mysteries such as Stonebeth Smith was researching henge in England, the Easter the theory that Sir Francis Island statues in the Pacific Bacon was the true author of and the still undeciphered Mayan inscriptions in Mexico.

These efforts are included in the books, pamphlets, technical papers, periodicals, microfilms, slides, clippings, manuscripts and cryptographic devices in the collection. Also included are copies of codes used during the Civil War and World War I.

The Marshall Library, adjacent to the campuses of Virginia -Military Institute and Washington and Lee Univer-b sity, houses the private and p public papers of the World st War II Army Chief of Staff, hi but has expanded during the the During World War I, the last year with a number of Pa

HUSBAND-WIFE TEAM

Code-Breakers' Work Presented to Library

By BRIAN KELLY Star Staff Writer

Just before World War II. when the Japanese were planning their attack on Pearl Harbor, William F. Friedman led the group of U.S. cryptologists who broke Tokyo's famous diplomatic "Purple Code."

The breakthrough didn't prevent the attack on Pearl Harbor, but it did give U.S. intelligence an advantage over the unsuspecting Japanese in the early stages of the war. The coup also was typical of the late lieutenant colonel's career as the nation's most eminent cryptologist

for nearly 50 years.

Now, a wide-ranging collection of cryptologic materials that he and his wife Elizabeth gathered in parallel careers has been presented to the George C. Marshall Research Library at Lexington,

3,000-Item Collection -

facility, a research memorial to the Army's chief of staff during World War II, call the 3,000-item Friedman collection, "one of the most important and extensive private collections of cryptologic material in the world."

A gift from Friedman, who died in 1969, and his widow, the collection ranges from contemporary and historic cryptology U.S. Army's first class of crypto to the couple's joint studies of tographers. Later, Friedman archaeology and the Bacon-himself entered the Army and Shakespeare literary controver-

Among the contemporary materials is all the published matter Friedman could find on the great national debate over who was to blame for U.S. lack of for Merit and the National Secu vigilance at Pearl Harbor, as well as material relating to modern cryptonalysis, cryptography, him a \$100,000 compensation for secret writing and electronic code-breaking machines and oth communications, and a handful er devices that he developed bu of simple hiding devices.

.Another segment of the collection consists of the late Father nature. Theodore C. Petersen's studies Mrs. Friedman, who still live: at Catholic University of the in the District, later developed ? mysterious Voynich manuscript, code system for the Internation thought to be the work of the al Monetary Fund.

medieval monk, Roger Baco. Both Friedman and Father P tersen were among the schola: who have attempted, unsucces fully, to decipher the manuscript.

The latter also incorporate studies by the Friedman coup on the claims of some scholar that Sir Francis Bacon was th real author of Shakespeare work. The couple's research i this field uncovered no proof e Bacon's alleged role and resul ed in a book, "The Shakespea ean Ciphers Examined".

Still another part of their co lection is devoted to literatur they called the "cult of unintell gility", or work of a cryptu graphic nature by James Joyce Gertrude Stein and other at thors apparently striving to cor ceal their real meanings.

A native of Russia, Friedma first was a student of genetic and served as director of geneti Spokesmen for the Marshall studies at the Riverbank Lab ratories at Geneva, Ill., befor World War I. His future wife whom he met there, was study ing the Bacon question, and thi turned Friedman's talents t crypotography.

"Rewarded by Government

When World War I erupted the Friedman couple trained th soon became director, and chie expert, of the nation's militar code experts until after World War II. \cdots

Friedman was one of the fev men to receive both the Meda rity Medal in recognitition of hi work. In 1956, Congress awarded could not patent and sell com mercially because of their secre-