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Solving the Enigma: History of the Cryptanalytic Bombe

Traces the history of the development of the cryptanalytic Bombe during WWII. It discusses the history of the Bombe from the time the Poles solved the Enigma, through the British involvement in developing the machine, the Navy contract with National Cash Register Corp. to build an American version, and, finally, the Allied successes against German U-boats in the North Atlantic.

The Start of the Digital Revolution: SIGSALY - Secure Digital Voice Communications in World War II

A brief overview of the revolutionary effort to provide secure voice communications for high-level government officials.

Army Security Agency Aerial Reconnaissance: Mission and Sacrifice.

Describes the use of Army aircraft for D/F and ELINT collection, primarily during the Vietnam War.

Sharing the Burden: Women in Cryptology during World War II.

A brief look at the contributions and sacrifices made by women as civilian and military cryptologists during WWII.

American Cryptology: Two Centuries of Tradition

A synopsis of the role of cryptology in the American Revolution, Civil War, interwar period, and World Wars, and concluding with the establishment of the National Security Agency.

The Cipher Disk

Invented in Italy sometime before 1470, the cipher disk represented a breakthrough in ease of encipherment and decipherment. This basic invention survived to be used until several years after the First World War.

The Cryptographic Mathematics of Enigma

A first-time discussion of the derivation of the exact number of theoretical cryptographic key settings and machine configurations for the Enigma cipher machine. Also calculates the number of practical key settings Allied cryptanalysts were faced with daily during WWII. Shows the relative contribution each component of the Enigma added to the overall strength of the machine.

Listening to the Rumrunners

A brief history of the use of COMINT in tracking down the smugglers of illegal liquor during Prohibition.

The National Cryptologic Museum

A description of the CCH-sponsored museum, its history and highlights.

Origins of NSA

From the Army's Cipher Bureau to Herbert Yardley's Black Chamber to the Signal Intelligence Service through the various organizational maneuverings that led eventually to the formation of the National Security Agency.

Pioneers in U.S. Cryptology

The lives of Herbert O. Yardley, William F. Friedman, Captain Laurance F. Safford, Rear Admiral Joseph N. Wenger, Frank B. Rowlett, Elizebeth Smith Friedman, and Agnes Meyer Driscoll.

Radio Intelligence on the Mexican Border, World War I: A Personal View

In this interview, a member of the Radio Intelligence Service recalls his service on the U.S.-Mexican border from 1918 to 1919 monitoring the threat of a German-Mexican alliance.

