



2025 SYMPOSIUM ON CRYPTOLOGIC HISTORY

Co-sponsored by the Center for Cryptologic History and the National Cryptologic Foundation

*ENGAGE THE PAST,
EDUCATE THE FUTURE*
PRELIMINARY PROGRAM*

Wednesday, April 30
Kossiakoff Center in Laurel, Maryland
Registration check-in and continental breakfast available between 7:30 am – 8:30 am

Session 1, 8:30 am – 9:15 am

PLENARY

AUDITORIUM

Welcome

Mr. John A. Tokar, Chief, NSA Center for Cryptologic History (CCH)

Keynote Address

Admiral William O. Studeman, USN (ret.), former DIRNSA

Session 2, 9:30 am – 11:00 am

Session 2A

AUDITORIUM

Cyber operations & security in historical perspective

Moderator: Dr. Michael Warner

Dr. J.D. Work

Dr. Shawn Woodford

Mr. Evan Rea

Ms. Kara Smit

Mr. Tony Rutkowski

Dr. Aaron Brantly

Session 2B

CLASSROOM B

Pre-modern cryptography

Moderator: Dr. Vince Houghton

Mr. Klaus Schmeh

Four Not-So-Famous Unsolved Crypto Mysteries

Dr. Roger Stritmatter

The Oracle of the Bottle Revisited: Why Ben Jonson's 1623 First Folio Shakespeare Encryption is Real

Session 2C

CLASSROOM C

Cryptanalysis in World War II

Moderator: Mr. Dave Blount

Prof. Chris Christensen

The Japanese GREEN Cipher Machine

Dr. Laura M. Calkins

Tracking Ciphers in the Broadcast Bands

Mr. Steve Jaskoski

Use of intelligence and ULTRA decrypts to inform senior leadership of evacuation of German troops from Sicily in 1943

Wednesday Lunch Sessions, 11:00 am – 12:50 pm

DINING ROOM SESSION

11:15 am – 12:00 pm

Ms. Eileen Buckholtz, moderator

Queens of Code – Uncovered Treasure

Ms. Laura Nelson, president

National Cryptologic Foundation

AUDITORIUM PERFORMANCE

12:15 pm – 12:45 pm

Herbert Yardley radio play re-enactment, arranged by Ms. Nancy Steinecke

Session 3, 1:00 pm – 2:30 pm

Session 3A AUDITORIUM

Declassifying VENONA:

Uncovering NSA's Longest Active Cryptanalytic Effort

Dr. David Hatch

Dr. Michael Warner

Moderator: MIDN Eva Huber

Session 3B CLASSROOM B

Cryptology & Mathematics

Prof. Chris Christensen

Mr. Roland Long

MIDN Jacob Price

The Evolution of Difference Tables

The Classified Mathematical Papers of A. A. Albert: A Glimpse into the Application of Mathematics to Cryptologic Problems during the 1950s and 1960s

Application of Quantum Secure Encryption Algorithms in Bluetooth Tracking Devices

Moderator: Ms. Brenda McIntire

Session 3C CLASSROOM C

Lost Cryptography

Mr. Ralph Sawyer

Marek Grajek, Ph.D.

Dr. Nicholas Gessler

Clandestine Communications in Historic China: Verbal Modalities

ὁ αἰνίγμα τῆς σκύταλης (The riddle of the scytale)

Cypher for Aspinwall

Moderator: Mr. Rob Simpson

Session 4, 2:45 pm – 4:15 pm

Session 4A AUDITORIUM

New Developments in the History of Intelligence

Dr. Mark Stout

Dr. Nicholas Reynolds

Dr. Jeffrey Rogg

Moderator: Dr. Mark Stout

Session 4B CLASSROOM B

Cryptologic Pedagogy and Research

Prof. John Blaxland,

Cara Moore Lebonick

Mr. Darnell Washington

Revealing Secrets about Graduate Intelligence Education in Australia with Ambassador Clare Birgin

Personnel Records of Black Codebreaking Unit in World War II

Cybersecurity through the Lens of Cryptography

Moderator: Ms. Mariel Maughan

Session 4C CLASSROOM C

Encrypted Newspaper Ads in the Nineteenth Century

Mr. Klaus Schmeh

Ms. Elonka Dunin

Mr. Taylor Leach

Moderator: Ms. Sandy Hagenhoff

Thursday, May 1

Kossiakoff Center in Laurel, Maryland

Registration check-in and continental breakfast available between 7:15 am – 8:00 am

Session 5, 8:00 am – 9:30 am

Session 5A AUDITORIUM

Cryptologic Partnerships

Moderator: Mr. Trum Soule

- Dr. David Kenyon Neptune and his Dolphins: Bletchley Park, Naval Enigma, and the 1944 Normandy Invasion
- Dr. Thomas Cheetham The Tip of the Spear: Reconsidering the Relationship between Tactical and Strategic Signals Intelligence in the Second World War
- Dr. John Fox The Struggles for Counterintelligence Access to SIGINT in World War II and the Early Cold War

Session 5B CLASSROOM B

Turing and Rejewski Approaches to Solving the Enigma

Moderator: Mr. Patrick Weadon

- Ms. Paz Jiménez-Seral
- Mr. Manuel Vázquez-Lapuenta

Session 5C CLASSROOM C

Exploring Cryptology Worldwide

Moderator: Dr. Dave Sherman

- Mr. Klaus Schmeh A Cryptologic Travel Guide
- Mr. Craig Gralley The Pisgah Astronomical Research Institute: An Untold History of Spacemen and Spies
- Dr. James Deutsch The Occupational Culture and Folklore of Cryptology

Session 6, 9:45 am – 11:15 am

Session 6A AUDITORIUM

Cybersecurity History

Moderator: Mr. Evan Rea

- Mr. Marty Busse Plus ça change, plus c'est la insecurite
- Mr. Dermot Turing British Warnings of American Cryptologic Compromises in World War II
- Mr. Evan Rea Origins of NSA's Communications Security Mission

Session 6B CLASSROOM B

World War II Cryptology in Unexpected Places

Moderator: Mr. John Tokar

- Mr. Matt Zullo The U.S. Navy's On-the-Roof Gang – An Update
- Mr. Peter Bedini Simplicity, Security, and Economy: The Escape and Evasion Codes of World War II
- Dr. Kyle Prescott The *USS California* Band: Further Connections

Session 6C CLASSROOM C

Cryptology during the Cold War

Moderator: Mr. Brian O'Reilly

- Dr. Raymond Batvinis Agent Link: The Spy Erased from History
- Mr. Brian O'Reilly Failure to Act: U.S. Strategic Intelligence Warnings

Friday, May 2

Tours at the National Cryptologic Museum, Annapolis Junction, Maryland

The history of cryptology

Join the staff of the National Cryptologic Museum staff as they review recent discoveries and additions to the Collection, highlighting key artifacts and showcasing the ever evolving history of cryptology. Tours begin at 11:00 am and 1:00 pm and will last approximately one hour.

Behind the scenes

Take a deeper look into the National Cryptologic Museum's vast collection of artifacts. Guests will visit the artifact storage room to see pieces not on display and talk about the development of the collection. Tours begin at 10:15 am and 3:00 pm and will last approximately one-half hour.

**A final program will be available to attendees during the Symposium. Unless speakers say otherwise, they are speaking under a policy of non-attribution and should not be quoted or cited without their permission. Presentations are the views of the speakers alone, and do not represent those of the U.S. Government or the National Security Agency. Speakers and their presentations are not endorsed by the U.S. Government or the National Security Agency.*