# 2022



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

All sessions will be held virtually via Microsoft Teams. Registered attendees will receive a link to enter each session. All times are Eastern Daylight Time (EDT).

# Wednesday, May 11, 2022

SESSION 1 8:30 AM - 9:15 AM

Welcome Mr. John A. Tokar, Chief, Center for Cryptologic History

Keynote Address Admiral Bobby Ray Inman, USN (ret.), former DIRNSA

SESSION 2 9:30 AM - 11:00 AM

# Session 2A

# Cyber Conflict & Competition

What we have learned about networks and data as strategic risk and reward

Dr. Aaron Brantly The State+: The Condoning of Substate Activities for National Gain

Dr. Eric Novotny The Ayatollah's Kill Switch: Monitoring and Measuring Internet Shutdowns and

Political Turmoil

Dr. Thomas Rid On Digital Counterintelligence

Mr. JD Work Cryptanalytic Enabling Operations against Cyber Targets by Nonstate Actors

Chair: Dr. Michael Warner, Discussant: Dr. Emily Goldman

## Session 2B

# **Explorations of Cryptologic Theories**

Dr. Roger Stritmatter Witty Numbers: Counting the Feet in Ben Jonson's First Folio Cryptogram

Ms. Elonka Dunin Robert Thouless's Paranormal Crypto Experiments

& Mr. Klaus Schmeh

Mr. Austin Lubetkin Rediscovering Coded Cyphers as Effective Methods for Digitally Interpreting

**Brainwaves** 

**SESSION 3** 

11:15 A.M. - 12:00 P.M.

Dr. David Hatch & Mr. Wade Forbes The Making of "CryptoComics"

Moderator: Mr. John Tokar

**SESSION 4** 

12:15 P.M. – 12:45 P.M.

Ms. Erica Richards & Mr. Dave King

The Making of "The Last Elephant Cage"

Session 5

1:00 P.M. - 2:30 P.M.

# **Cryptology in France: Strengths and Weaknesses**

Mr. Philippe Guillot Ms. Agathe Couderc

General Jean-Louis Desvignes Professor Jean-Jacques Quisquater

Chair: General Jean-Louis Desvignes

**SESSION 6** 

2:45 PM - 4:15 PM

### Session 6A

# Long-standing Ciphers, New Cryptanalysis

Dr. Richard Bean & Breaking Historical Ciphers from the Biafran War

Dr. George Lasry

Mr. Bob Bogart Charles Hafer's Enciphered Diaries

Dr. George Lasry Deciphering Papal Ciphers from the 16th, 17th, and 18th Centuries

### Session 6B

# World War II Tactical SIGINT

Major Spencer French Not Just LUCKY: How Patton's Third Army Adapted to Generate Operational

Level Information Advantage from March-August 1944

Dr. David Hatch Tactical Naval SIGINT in the Battle for Iwo Jima

Dr. Samuele F. S. Pardini Reading Literature, Deciphering History: How a Jewish-American Literary Critic

Made Sense of WWII and Helped Win It

## Session 6C

### Collecting SIGINT

Mr. Gabe Marshall Early Remote SIGINT Collection: A Foretaste of Today's Mission Operations

Mr. Mark Borgerson USS SPHINX: The last Special Projects Ship

Mr. Darnell Washington The Sub Detection System you Probably Didn't Hear About



# CRYPTOLOGIC HISTORY SYMPOSIUM

# Thursday, May 12, 2022

**SESSION 7** 

8:00 AM - 9:30 AM

# **SESSION 7A**

# **Looking Back at the Secure Data Network System (SDNS)**

Mr. Roger Callahan Mr. Alex Sharpe Mr. Russ Housley

Dr. Stephen Kent NSA's Secure Data Network System Program (SDNS): Its Impact on Internet

Security Standards (and vice versa)

Chair: Mr. Tony Rutkowski

# Session 7B

# Cryptology and Prisoners of War

Mr. Peter Bedini The MIS-X Code Section: Supporting Escape and Evasion in WW2
Mr. Gregory Nedved Chinese POWs in Korea and Understanding Chinese Cryptology

# Session 7C

# Cryptology's Intersection with Diplomacy

Mr. Frode Weierud &

Cryptology in the German Foreign Office, 1919-1954

Dr. Sandy Zabell

Ms. Jennifer Rigdon Teter British Imperial Censorship at Bermuda and the Interception of American

Transatlantic Mail during World War II

Mr. John F. Dooley Benjamin Brigman and Telegram 48

**SESSION 8** 

9:45 AM - 11:15 AM

# **SESSION 8A**

Pre-Modern Cryptology

Dr. Gerhard Strasser Diametrically Opposed Innovations: "Mute communication" for Closed and

Open Interaction in the 16th and 17th Centuries

Mr. Geoff Lee Caesar's Hidden Writing is Not a Cipher

**SESSION 8B** 

**Icons of Technology** 

Ms. Jan Slimming How I Met Colossus! Codebreaking and Computers

Dr. Olga Topol & Poland's WW2 Cipher Machine: Icons and Legends

Sir Dermot Turing

Dr. Nicolas T. Courtois On the Peculiar Choice of Rotors in Enigma and other Historical Cipher

Machines

Session 8C

Topics in UK Cryptology

Dr. Chris Christensen Bletchley Park's Work on JN-25

Dr. David Abrutat Secret Messengers: How Bletchley Park's Product was Disseminated during the

Second World War

Dr. David Kenyon "A Divine Union Between Us and the People of Other Nations?" Exploring

Racial Diversity in British SIGINT in South Asia, 1935-1945

SESSION 9 11:45 AM – 12:15 PM

Dr. Vince Houghton &

Mr. Robert Simpson

Update on the National Cryptologic Museum and Library

SESSION 10 12:30 P.M. – 1:05 P.M.

Dr. Paul Nahay The Parkway Chorale

SESSION 11 1:15 PM - 2:45 PM

# Session 11A

# A Trio of Technical Challenges and Innovative Solutions

Mr. Steven Loleski Hard Targets: Revisiting Technology, Cryptography, and Cold War" Rules of the

Game"

Dr. Ivo Juurvee The Largest British SIGINT Liaison of the Interwar Years: Estonian Radio

Intelligence against the Soviet Union

Mr. Klaus Schmeh The Codes and Ciphers of the Red Army Faction

# **SESSION 11B**

# Going Online with Kepler

Mr. Howard Thorpe Mr. Glenn Nordin Dr. Steven H. Barry

# **SESSION 11C**

Women in Intelligence: British, Canadian, and American Perspectives

Dr. John Ferris Marie-Rose Egan, British Royal SIGINT from 1935-1948

Dr. Isabel Campbell WRCNS to the Rescue: How the Women's Royal Canadian Naval Service

Contributed to Canadian and Allied Intelligence Functions during the Early Cold

War

Dr. David Sherman Spies in the Family: A Father, A Daughter, and Two American Wars

SESSION 12 3:15 PM - 5:00 PM

Concluding Remarks Mr. John A. Tokar, Chief, CCH

Cryptologic Icons: Some Old, Some New

Ms. Brenda McIntire "Give to Ferner"

Mr. Anthony Denzer Personal Recollections of Brigadier John H. Tiltman

Dr. Nicholas E. Reynolds Wall Street to the Rescue: Alfred T. McCormack, Amateur – and Expert –

**MAGICian** 

Ms. Amy Butler Greenfield Elizebeth Smith Friedman, Abwehr Enigma, and Allied Codebreaking

Cooperation, 1942-1944

Mrs. Betsy Rohaly Smoot The Case for Parker Hitt as the Father of American Military Cryptology

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