

HOW TO HIDE YOUR AFFAIR: A
 SHORT HISTORY OF CRYPTOGRAPHY
 PRESENTED BY: RICHARD NORWOOD

Tuesdays
January 3, 10, 17, & 24, 2017

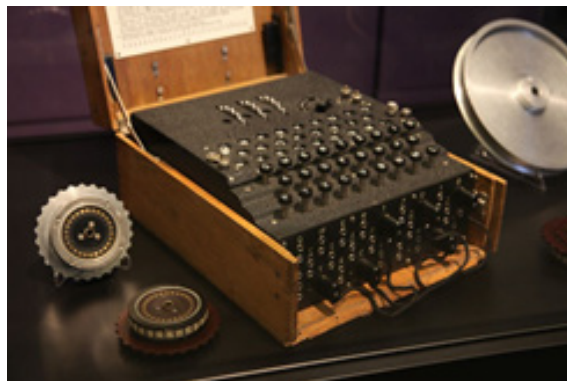
9:30 am - 12:30 pm

Goleta Library
500 N. Fairview Ave, Goleta

Sending secret messages, or cryptography, began with the invention of writing, and has been with us ever since. Whenever the technology of communication has changed and advanced, cryptography has changed in lockstep. From the time when people could encode and decode messages with a pencil and paper, we have advanced to a stage where a powerful computer is a necessity.

In the beginning, code breaking depended on linguists and language translators. Now the field is dominated by mathematicians and computer experts. Early cryptography involved both codes and ciphers. As the crypto-technology changed from hand calculations to machines, and later computers, ciphers became dominant.

In this talk we will survey these changes, and examine instances where code breaking has changed history.



Enigma Machine

Deadline for registration: December 27th

Enrollment Form: CRYPTOGRAPHY – January 3, 10, 17, & 24, 2017

VISTAS Members \$50 - Nonmembers \$75

Amount Enclosed \$ _____ Check# _____

Name(s): _____

Telephone: _____ Email: _____

Mail registration form to:

VISTAS Lifelong Learning, Inc., P.O. Box 23228, Santa Barbara, CA 93121-3228

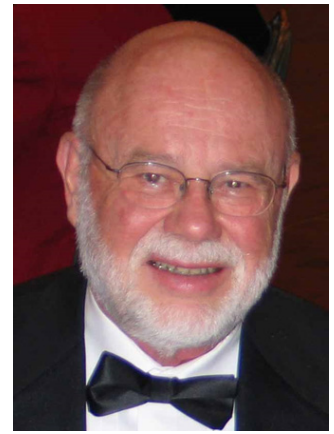
Or you may go to our website and pay by secure credit card through PayPal

<http://www.vistaslifelonglearning.org/upcoming.html>

Please check here if you would like to volunteer to help with refreshments _____

BIOGRAPHY: *Richard Norwood* worked for IBM for thirty years retiring in 1991. While at IBM he worked in advance technology and product development of impact and non-impact printers, copiers, tape drives, and robotics. While on a two year leave of absence from IBM, he taught Mechanical Engineering at the National Technical University in Quito, Ecuador. After retiring from IBM, he taught for ten years at the University of Colorado in the Mechanical Engineering Department. He has a BS, MS, and ScD from MIT.

He and his wife, Anne, live in Boulder, Colorado, and stay in Santa Barbara during the winter, where they enjoy the Vistas program.



VISTAS Calendar

Seminar/Event	Inclusive Dates	Time	Venue
Documentary Film Club	3rd Thurs Monthly	2:00 pm	Maravilla Theater
Nonfiction Book Club	3rd Wed Monthly	1:30 pm	Vista del Monte-Sierra Madre
Western Medicine Study Grp	Feb - TBD	TBD	Private Home
Cryptography	Tues, Jan 3,10,17 & 24	9:30 am	Goleta Library
Climate Change	Thurs, Jan 5, 12, & 19	9:30 am	Natural History - Farrand
So.Africa Under Apartheid	Thurs, Jan 26	1:30 pm	Valle Verde - Social Room
Hollywood Musicals	Tues, Feb 7, 14, 21	9:30 am	Goleta Library
Bible Translations	Wed, Feb 8	1:30 pm	Valle Verde - Social Room
Grandchildren Learning	Mon, Feb 13, 20 & 27	9:30 am	Valle Verde - Social Room
Nikola Tesla	Wed, Feb 22 & Mar 1	9:30 am	Valle Verde - Social Room
Short Story Seminar	Wed, Mar 1, 8, 15, & 22	1:30 pm	Private Home
Lewis Carroll	Mon, Mar 6 & 13	9:30 am	Goleta Library
Symphony Orchestra	Wed, Apr 12, 19, & 26	TBD	TBD
Rural New England 1830's	Thurs, May 4	9:30 am	Valle Verde - Social Room