COMPUTER SECURITY HISTORY WORKSHOP

11-12 July 2014

Charles Babbage Institute University of Minnesota

8:00 Breakfast

8:30 Welcome & Introductions

8:45 CBI project overview

9:20 break

9:30 Session I

tinyurl.com/cbi-cshw

- 1.5 days: 13+1 papers (in volume)
- I Conceptual Foundations (J. Epstein)
- 2 Industry Foundations (T. Benzel)
- 3 Law & Privacy (C. Landwehr)
- 4 Identity & Anonymity (R. Bace)
- revise for IEEE Annals Hist. Comp.

program notes

- Aspray & Cortada split into Aspray (2C oral) + Cortada (2D written)
- •Saturday: 20-min cavern tour (1:00) 45-min cavern tour (2:15)
- •NSF.TC 1116862 'Building Infrastructure for Computer Security History'

workshop sessions

- •present in 20 mins
- •discuss for 15 mins
- •change speakers in ~3 mins (slides/PDF before to Tom or laptop)

who is who ...?

- Donn Parker (you should do this!)
- Tom Misa (CBI director)
- Jeff Yost (CBI assoc. director)
- Katie Charlet (CBI admin)
- •R. Arvid Nelsen (CBI archivist: lunch)
- •NSF-TC (Landwehr + Epstein)

where to go for ...?

- breakfast, coffee, lunch = here AL 120
- dinner = Campus Club 4th floor Coffman (East Bank across river)
- restrooms = AL opposite side
- •wi-fi = 'UofM Guest'
- CBI = AL 211

- candid discussion among 'strangers'?
- different backgrounds, communities, concepts, perspectives (OK!)
- watch jargon + acronyms
- ·ask (expect) clarifying questions
- ·please 'mix' at meals

origins of CBI

- Erwin Tomash (MN+CA) f. 1978
- computer history needs place:
 document + oral histories + research
- •U Minnesota 'Digital State' 1980
- ·Arthur Norberg (1981--2005)

CBI today

- •support: College + ULibraries + HST
 - + ERA chair + fundraising + grants*
- •4 staff + students + GSRA + 2x SRF
- •400 oral histories (+600 FastLane)
- 200 archival collections [Sat. tours]
- •infrastructure for computer history

CBI builds infrastructure

- ... companies, sci instrument, ARPA-IPTO, software, FastLane
- oral histories (20K/yr) /month)
 cbi.umn.edu/oh
- documents, reports, letters, notebook (inside view: why+how?) cbi.umn.edu/collections/archmss.html

CBI's Computer Security dox

- Donn Parker purl.umn.edu/40845
- Willis Ware purl.umn.edu/41431
- Walter Anderson (GAO)
- © Carl Hammer (DPMA, ACM)
- SHARE, Inc (security sessions)
- o IBM Data Security Manuals
- David Cavanagh (Sun Life + I-4)

CBI's Computer Security OH

- James Bidzos (2004)
- Martin Hellman (2004)
- Donn Parker (2003)
- o Willis Ware (2003)
- Peter Patton (2000)

Computer Security project goals

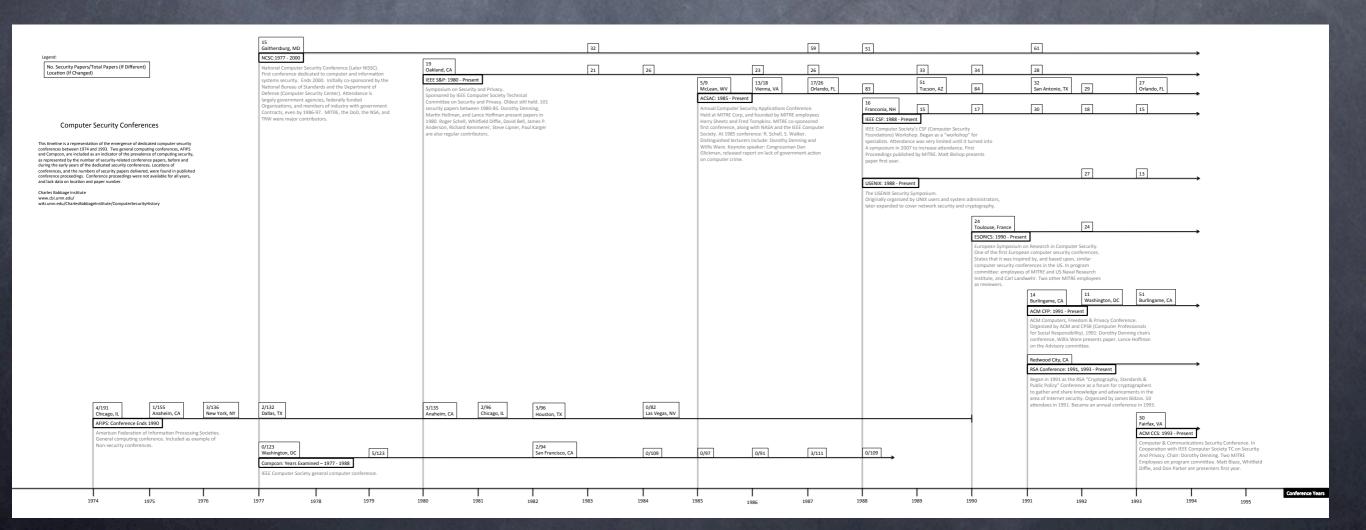
- conduct 30 OH [Jeff]
- Knowledge-networking wiki
- publish scholarship [Jeff]
- create security-history community

Computer Security wiki

- wiki.umn.edu/CBI_ComputerSecurity/
- Current activities, Who is who
- open: completed interviews
- People (174); Programs (16); Publications* (29); Systems* (24); Events (30)

Computer Security timeline

- wiki.umn.edu/CBI_ComputerSecurity/PubTimeline
- security conferences 1974-93



Computer Security Multics

- wiki.umn.edu/CBI_ComputerSecurity/SystemsMultics
- Multics: origins, security, 'object'
- collect fragments [3600 words]
- Yost 2 weeks at MIT Archives (MAC Saltzer + Corbató papers)
- aim to publish 'complete story'
- tinyurl.com/cbi-cshw

Charles Babbage Institute—"Building an Infrastructure for Computer Security History" The Oral History Component (and related presentation/publication efforts) NSF Sponsored Project # 1116862

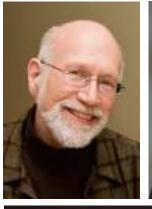




































 CBI—more than 3 decades of leadership in IT oral histories

This project (to date):

- 24 of 30 conducted
- 20 available
- 1,712 transcript pp.

Methodology:

Extensive targeted research; 2-4 hr. Interviews; transcription; interviewer and interviewee editing; published online on searchable database

Oral Histories

Roger Schell **Barry Schrager** Rebecca Bace Steve Lipner **David Bell** Tom Van Vleck Steve Walker **Eldon Worley** Peter Denning **Dorothy Denning** Peter Neumann Susan Nycum Teresa Lunt

Matthew Bishop Karl Levitt Daniel Edwards Seymour Goodman William Murray Robert Johnston **Eugene Spafford** Mary Schaefer Carl Landwehr John McLean Richard Kemmerer

How have we decided who to interview

- Seminal/pioneering contributors to the computer security field in the 1960s-1980s (focus pre-Web era)
- Expert advice from our advisory committee
 (Bace, Bishop, Johnston, Katzke, Lipner, Murray, Odlyzko, Parker, and Spafford)—list of roughly 120 key pioneers.
- Clusters—to gain insight and multiple perspectives, and achieve a degree of depth on targeted themes to create research opportunities for ourselves and others

Some of Our Themes/Clusters

- High Assurance/TCSEC— (Schell, Lipner, Bell, Walker, D. Denning, Neumann, Edwards, Schaefer, Landwehr, McLean, Kemmerer)
- Multics (Neumann, Van Vleck, P. Denning, Lipner, Schell)
- Intrusion Detection (Bace, D. Denning, Lunt, Neumann, Bishop, Spafford, Levitt, Kemmerer)
- Research Program Leadership (Schell, Walker, Bace, Lunt, Landwehr, Levitt)
- Industry (Shrager, Worley, Murray, Johnston, Walker, Bell, Van Vleck, Lipner, Schell)
- Education (P. Denning, D. Denning, Bishop, Levitt, Spafford, Kemmerer)

2014 Presentations from Project Research

Yost Business History Conference (computer security and corporate responsibility)-Presented in March

CBI Workshop (industry origins)-July

Business History Society of Japan (cooperative organizations—IBM Share and CSI)-Sept.

SHOT (IDES/NIDES)-Nov.

Lewis SHOT (US Computer Scientists Trip Reports on USSR in late 1950s and 1960s)-Nov.

Publication Plans/Efforts Underway

- Two special issues approved by editorial board of IEEE Annals of the History of Computing for CBI Workshop papers—Misa and Yost (co-guest editors).
- N. Lewis "Cybernetics and the Death of Stalinism: Soviet Computing Through the Eyes of Western Experts." (two part article)—submitted to IEEE Annals
- J. Yost, "The March of IDES: A History of the Intrusion Detection Expert System."—draft manuscript completed
- T. Misa, J. Yost, and N. Lewis—Plans for Multics security article (based on Corbato and Saltzer Papers at MIT Archives, OHs)