

TERMINAL READY  
FULL-DUPLEX

AT

OK

**Welcome to 1989!**

# Leipzig Fair, March 1989



## 4-Megabit-Hybridspeicher aus Hermsdorf

Leipzig (ND). Auf der Leipziger Frühjahrsmesse 1989 werden 4-Megabit-Hybridspeicher ausgestellt, die vom Kombinat Keramische Werke Hermsdorf produziert werden. Damit kann dem Anwender

ein Speichermodul zur Verfügung gestellt werden, das in seiner Speicherkapazität dem internationalen Höchststand bei monolithischen mikroelektronischen Schaltkreisen entspricht.

# Fashion! Music! Movies!



# March 2, 1989: ARD "im brennpunkt"



# How to Internet in the 1980s



- **Phone & Acoustic Coupler**
- **Datex-P**
- **X.25 Protocol**
- **Network User Identification (NUI)**
- **Message Boards**
- **IBM & VAX computers**
- **West-Berlin: Hackers' Paradise**

# Hacker Party at CERN!

**VXOMEG::SYSTEM** hallo HUUH. Do you have a little time???

**VXCRNA::OPS** Yes, we're back from dinner

**VXOMEG::SYSTEM** dinner? You think about eating all the time, too?

**VXCRNA::OPS** we're here from 1600 to 2300 and we have to eat!!!

**VXOMEG::SYSTEM** Of course I'm always hungry for more VAXEN!!!!

**VXCRNA::OPS** Why the VAXEN at CERN and not a bank?

**VXOMEG::SYSTEM** No! I'm a hacker and no criminal or spy!!!!

**VXCRNA:OPS** Yes I understand ... but isn't it more fun with a bank?

**VXOMEG::SYSTEM** A bank is ok but it has to be a databank!!!

# Chaos

**“His first Chaos conference was an enlightening experience. Seeing so many kindred spirits in one place was like being released from solitary confinement. [...]**

**Outsiders took an immediate interest in Chaos. They viewed the club as a symbol of harmless dissent. [...]**

**German television crews stalked the conference, meters of cable snaking behind them. The nightly news carried reports of the latest gathering of technological wunderkinder.”**

**DOB &  
Pengo &  
Hagbard &  
Urmel &  
Pedro.**

**& Sergej**

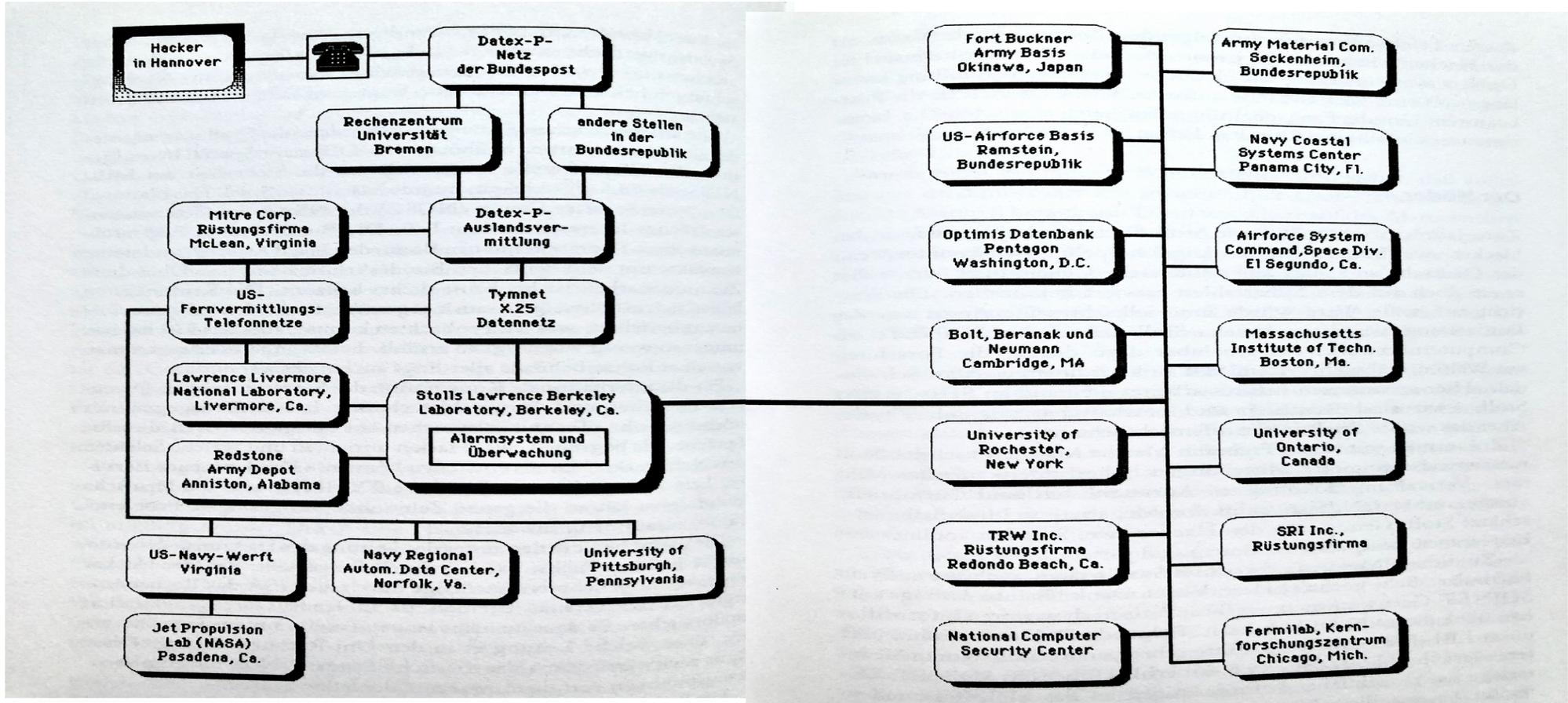
# **Coordinating Committee on Multilateral Export Controls (CoCom)**

**also known as  
Sergej's shopping list**

# Clifford Stoll, Hacker Hunter



# The trace leads to ...



# The Cuckoo's Egg

- **“There’s nothing on my machine that interests him long enough ...”**
- **“Why don’t you make something up then?”**



# **Alerting the media**

**April 1988: German magazine "Quick" reports on the case, using Clifford Stoll's notes**

**May 1988: Clifford Stoll publishes "Stalking the Wily Hacker"**

**July 1988: Hagbard and Pengo seek legal help**

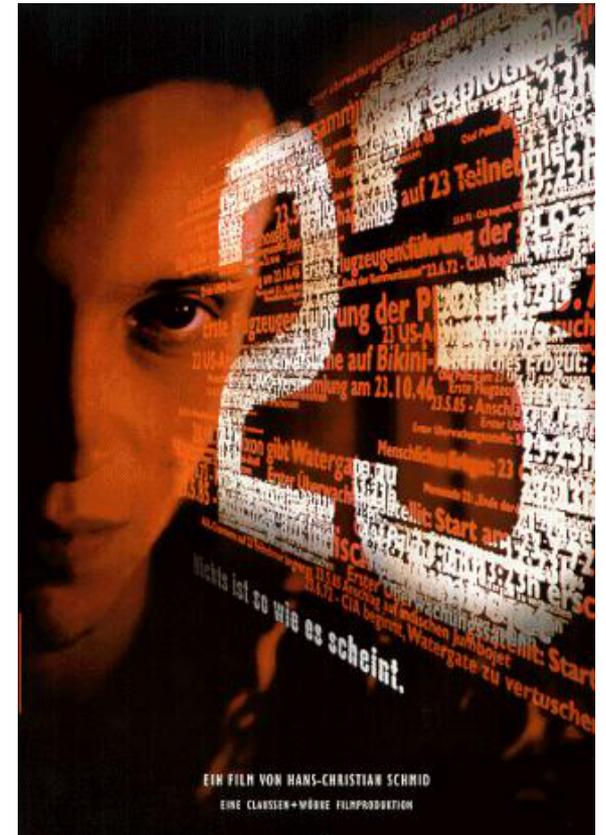
**March 1989: Arrests, Searches, media descends on CCC**

# **The Process: Much Ado about 75 cents**

- **Was any classified information actually transferred or stored anywhere?**
- **Were the USA or West Germany compromised in any way at all?**
- **How did Laszlo Balogh know about the SDInet mailing list?**

# Karl Koch

July 22, 1965 – May 23, 1989



**“OMG! PANIC!”**

**“German Hackers selling secret information to the KGB!”**

**“These aren’t harmless kids joyriding around on computers – these are spies!”**

**“The CCC is involved! (I never trusted those freaks ...)”**

**Rewe**

# Händler ruft gehackte Mandeln zurück

Vorsicht beim Plätzchenbacken: Gehackte Mandeln, die bei Rewe verkauft wurden, können metallische Fremdkörper enthalten. Der Rückruf betrifft sieben Bundesländer.

24. Dezember 2019, 19:11 Uhr / Quelle: ZEIT ONLINE, [sah](#) / [38 Kommentare](#)

# Russian Hackers Today?



Russian hackers



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## **Russian Hacking: How did it affect the 2016 elections?**

AL DIA News - 46 minutes ago

While Democrats and Republicans are passing the buck about who interfered the 2016 elections –**Russia**, according to every consistent ...

[Report: 2016 election mystery in North Carolina points to ...](#)

International - [Florida Politics \(blog\)](#) - 13 hours ago

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# Chinese Hackers?



Chinese hackers



Q All



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**Chinese hacking** group has found new way to bypass two ...

SiliconANGLE News - 24 Dec 2019

A group with alleged links to the **Chinese** government has been accused of **hacking** networks worldwide, but in a rare twist it's said to be ...

**Chinese Government-Linked Hackers** Caught Bypassing 2 ...

iPhone in Canada (press release) (blog) - 25 Dec 2019

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**Chinese Hackers** Bypassing Two-Factor Authentication

Security Boulevard - 24 Dec 2019

They said APT20 stole an RSA SecurID software token from a **hacked** system, which the **Chinese** actor then used on its computers to generate ...

# And what about German Hackers in 2019?



German hackers



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About 68.400 results (0,25 seconds)



[Meet the Mad Scientist Who Wrote the Book on How to Hunt ...](#)

WIRED - 18 Dec 2019

In doing so, he revealed a vast web of similar intrusions into military and government agencies carried out by a group of young **German hackers** ...

# **The CCC – what's changed since 1989?**

**“At a session on the future of Chaos, with a note of irritation in his voice, he spoke up. He told those in the room that he was unhappy with where he saw Chaos going. To a strictly technical hacker, Chaos’s political direction was unacceptable. Concentrating on things like environmental protection was diverting the group from its technical origins. It was little wonder, he said, that the truly talented hackers were beginning to abandon the club.”**

**Questions?**  
**Answers?**  
**Confessions?**

**My DECT: 6623**  
**Telegram: @Robotcat**

# **Sources (for online sources see links attached to Fahrplan)**

**Thomas Ammann, Matthias Lehnhardt, Gerd Meissner and Stephan Stahl, *Hacker für Moskau* (Wunderlich, 1989)**

**Clifford Stoll, *Stalking the Wily Hacker*, *Communications of the ACM*, Vol. 31, No. 5, May 1988, 484-497**

**Clifford Stoll, *The Cuckoo's Egg* (Doubleday, 1989)**

**Katherine Hafner and John Markoff, *Cyberpunk* (Simon & Schuster, 1991)**

**Michael Gutmann and Hans-Christian Schmid, *23: Die Geschichte des Hackers Karl Koch* (dtv, 1999)**