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# HACKER

## Reading list of Reading lists (there I go again, being recursive, ack!)

FTP: [stein.u.washington.edu/pub/user-supported/alt.cyberpunk/FAQS/FutureCultureFAQ.pl.Z/FutureCultureFAQ.pl.Z](http://stein.u.washington.edu/pub/user-supported/alt.cyberpunk/FAQS/FutureCultureFAQ.pl.Z/FutureCultureFAQ.pl.Z)

Is a very good suggested reading list, listening list (whatever the hell cyberpunk music is, some claim techno, some claim metal, whatever) and suggested viewing list (good documentaries, movies, tv shows, etc). There's also a good reading/listening/viewing list at the end of Steve Jackson's Cyberpunk RPG.

## Reading list of selected topics

Further information about Virtual Reality can be found at:

FTP: [ftp.u.washington.edu/public/virtual-worlds](http://ftp.u.washington.edu/public/virtual-worlds)  
[ftp.u.washington.edu/public/alt.cyberpunk](http://ftp.u.washington.edu/public/alt.cyberpunk)  
[ugrfx.aes.syr.edu/pub](http://ugrfx.aes.syr.edu/pub)  
[snee.waterloo.edu/pub](http://snee.waterloo.edu/pub)

Usenet: [sci.virtual-worlds](mailto:sci.virtual-worlds) Virtual reality (Moderated)

Books: Hamit, Francis & Wes Thomas - Virtual Reality: Adventures in Cyberspace  
Hattori, Katura - What's Virtual Reality?  
Helsel, Sandra & Judith Roth - Virtual Reality: Practice, Theory, & Promise  
Kowalski, Roy - The Science of Virtual Reality and Virtual Environments  
McLellan, H. - Virtual Reality: A Selected Bibliography  
Rheingold, Howard - Virtual Reality: Cybernetics, virtual reality, simulation

Further information about Virii can be found at:

FTP: [ftp.u.washington.edu/public/alt.cyberpunk/Virus23FAQ](http://ftp.u.washington.edu/public/alt.cyberpunk/Virus23FAQ)

usenet: [comp.virus](mailto:comp.virus)  
[bit.listserv.virus-l](mailto:bit.listserv.virus-l) Virus Alert - Urgent Virus Warnings.  
[bit.listserv.virus-l](mailto:bit.listserv.virus-l) Computer viruses.

BBS's: Unphamiliar Territory/1.602.804.1755 Virii Information online  
Virus Xchange (Bulgaria)/1.359.2.20.4198 Virii Information online

Magazines:  
Virus 23, Box 46, Red Deer, Alberta, T4N 5E7



# The Speakers...



Who are all these people? What are they doing here?  
AARRGG!! Ok, here is some intel on the speakers (Info only  
available on those who provided it) so we're not all clueless about who  
they are and what they have done.

**NOTE:** *If you see any mirrorshade wearing federal agent looking  
black suit lurking people in the shadows please report them to The Dark Tangent, and you could  
win a "I spotted the fed" tee- shirt.*

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**Ray Kaplan** is a principal in the Arizona-based independent consultanting firm Kaplan, Kovara & Associates specializing in system and network security in the DEC environment. Ray is a prolific writer for major computer journals and magazines and he lectures, teaches and consults on system and network management topics around the world to the exclusion of his sanity.

Among his clients, he has counted the worlds largest financial institution, world's smallest commodities broker and a wide variety of others in between. Since he hates suits and chooses not to lie, cheat and steal he is much less successful that he might otherwise be.

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**Curtis E.A. Karnow** is chair of the Competitive Practices Group at the San Francisco law firm of Landels, Ripley & Diamond. A former federal prosecutor and currently judge pro tem for various courts in the San Francisco area, Mr. Karnow specializes in intellectual property litigation, high tech and computer law. His clients include a worldwide telecommunications company, software developers, distributors and users, and a global home video game manufacturer. He is the author of numerous papers in the fields of computer law and virtual reality, litigation, and arbitration.

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**Dr. Mar' Ludwig** did his undergraduate work at MIT in physics and mathematics, earned a Master's degree at Caltech, and a Doctorate in physics at the University of Arizona in Tucson, where he now lives. He's been a part of the microcomputer revolution from the ground up, building his first computer from scratch in the 1970's, and developing a number of major PC-related embedded control and systems-level software concepts. Dr. Ludwig developed an interest in computer viruses as a result of their similarities to living organisms. He authored *The Little Black Book of Computer Viruses* in 1991, which was given the award of "Best Computer/Electronics Book" by the American Writer's Foundation, and which proved to be one of the most controversial computer books ever published. Dr. Ludwig is now hard at work on the second volume of the Black Book, which he says may prove to be even more controversial than the first.

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**Dan Farmer** worked in unix security at Purdue, CERT, and Sun. He currently writes security tools (best known is his "cops" program) for fun and almost for a living. He is currently working on a network scanning probe and improvements to cops, especially WRT very large sites.

# A Cypherpunk's Manifesto

by Eric Hughes

Privacy is necessary for an open society in the electronic age. Privacy is not secrecy. A private matter is something one doesn't want the whole world to know, but a secret matter is something one doesn't want anybody to know. Privacy is the power to selectively reveal oneself to the world.

If two parties have some sort of dealings, then each has a memory of their interaction. Each party can speak about their own memory of this; how could anyone prevent it? One could pass laws against it, but the freedom of speech, even more than privacy, is fundamental to an open society; we seek not to restrict any speech at all. If many parties speak together in the same forum, each can speak to all the others and aggregate together knowledge about individuals and other parties. The power of electronic communications has enabled such group speech, and it will not go away merely because we might want it to.

Since we desire privacy, we must ensure that each party to a transaction have knowledge only of that which is directly necessary for that transaction. Since any information can be spoken of, we must ensure that we reveal as little as possible. In most cases personal identity is not salient. When I purchase a magazine at a store and hand cash to the clerk, there is no need to know who I am. When I ask my electronic mail provider to send and receive messages, my provider need not know to whom I am speaking or what I am saying or what others are saying to me; my provider only need know how to get the message there and how much I owe them in fees. When my identity is revealed by the underlying mechanism of the transaction, I have no privacy. I cannot here selectively reveal myself; I must always reveal myself.

Therefore, privacy in an open society requires anonymous transaction systems. Until now, cash has been the primary such system. An anonymous transaction system is not a secret transaction system. An anonymous system empowers individuals to reveal their identity when desired and only when desired; this is the essence of privacy.

Privacy in an open society also requires cryptography. If I say something, I want it heard only by those for whom I intend it. If the content of my speech is available to the world, I have no privacy. To encrypt is to indicate the desire for privacy, and to encrypt with weak cryptography is to indicate not too much desire for privacy. Furthermore, to reveal one's identity with assurance when the default is anonymity requires the cryptographic signature.

We cannot expect governments, corporations, or other large, faceless organizations to grant us privacy out of their beneficence. It is to their advantage to speak of us, and we should expect that they will speak. To try to prevent their speech is to fight against the realities of information. Information does not just want to be free, it longs to be free. Information expands to fill the available storage space. Information is Rumor's younger, stronger cousin; Information is fleet of foot, has more eyes, knows more, and understands less than Rumor.



**Judi Clark.** Currently self-employed as a Computer Graphics and Telecommunications consultant, Judi is very active with small social groups. She was the Organizational Coordinator for the Third Conference on Computers, Freedom and Privacy, co-chair of the Berkeley chapter of Computer Professionals for Social Responsibility and Executive Committee Member of that national organization, co-organizer of This!Group (a group dedicated to sharing information to assist in formulating policies concerning access to information, network privacy and usage), organizer of a free monthly special interest group on Freedom, Privacy and Technology, and a continuing volunteer with BMUG (Berkeley Mac Users Group). In addition, she works with a growing number of community-based networks and communities at large to assist with the public's understanding of the changing technological world.

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**Dead Addict** has been involved in the CU for about 6 years. Progressing as most do from piracy to phreaking, to hacking, to finally becoming the law abiding god fearing atheist citizen that he is today. He has been a senior member of NSA and TRWS, leaving both groups eventually for various reasons.

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The evil **Dark Druid** sacrificed his first small animal to the Hacking God to further his dark skills. That, in addition to his first unix installation at 14 started him off in the right direction. He has been actively involved with unix security research and internetworking security issues for quite some time. On July 1, 1992 a flurry of agents swarmed his house, shoved a warrant in his face, and took most of his worldly possessions. Over a year later he's still wondering what happened to his stuff and if anyone will ever charge him with a crime.

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**Gail Thackery** is a Deputy County Attorney with the Maricopa County Attorney's Office in Phoenix, Arizona. Her duties include the prosecution of computer and communication-related crimes. Recently, she participated in "Operation Sundevil," a nationwide computer crime force.

Formerly a prosecutor with the Arizona Attorney General's Office and the Philadelphia District Attorney's Office, she is a graduate of Vassar College and the Syracuse University College of Law. She is a founding member of the Federal Computer Investigations Committee, and has been an adjunct professor at the Management and Engineering schools at Syracuse University and at Drexel University. She has been a lecturer for the EDP Auditors Association, the Data Processing Managers Association, the IEEE, the American Bar Association, the National College of District Attorneys, and has written a number of articles for professional and business journals on computer law and communications law.

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**Allen R. Grogan** is a partner in the Los Angeles law firm Blank Williams Johnston & Kronstadt, which has a substantial practice representing clients in the computer industry and in areas of emerging technology. His practice emphasizes licensing, distribution, proprietary rights and other areas relating to high technology. Mr. Grogan is co-founder and co-editor-in-chief of *The Computer Lawyer*. He is a former Vice-Chairman of the American Bar Association Computer Law Division of the Section of Science and Technology, and he speaks and writes frequently on legal matters relating to the computer industry and the emerging field of new media.

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**Scott Simpson...** I wonder if he'll get me his bio in time for printing? I wonder if he'll show up?

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We must defend our own privacy if we expect to have any. We must come together and create systems which allow anonymous transactions to take place. People have been defending their own privacy for centuries with whispers, darkness, envelopes, closed doors, secret handshakes, and couriers. The technologies of the past did not allow for strong privacy, but electronic technologies do.

We the Cypherpunks are dedicated to building anonymous systems. We are defending our privacy with cryptography, with anonymous mail forwarding systems, with digital signatures, and with electronic money.

Cypherpunks write code. We know that someone has to write software to defend privacy, and since we can't get privacy unless we all do, we're going to write it. We publish our code so that our fellow Cypherpunks may practice and play with it. Our code is free for all to use, worldwide. We don't much care if you don't approve of the software we write. We know that software can't be destroyed and that a widely dispersed system can't be shut down.

Cypherpunks deplore regulations on cryptography, for encryption is fundamentally a private act. The act of encryption, in fact, removes information from the public realm. Even laws against cryptography reach only so far as a nation's border and the arm of its violence. Cryptography will ineluctably spread over the whole globe, and with it the anonymous transactions systems that it makes possible.

For privacy to be widespread it must be part of a social contract. People must come and together deploy these systems for the common good. Privacy only extends so far as the cooperation of one's fellows in society. We the Cypherpunks seek your questions and your concerns and hope we may engage you so that we do not deceive ourselves. We will not, however, be moved out of our course because some may disagree with our goals.

The Cypherpunks are actively engaged in making the networks safer for privacy. Let us proceed together apace. Onward.

<hughes@soda.berkeley.edu>

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## Stuff To Buy After The Event

We'll still have shirts available for people who want to buy them, and a complete audio transcript of the event available for purchase. An edited version of the audio transcript will be typed up and distributed over the InterNet as soon as it is completed, or mail dtangent@defcon.org and request one for free.

<b>Complete Taped Transcript:</b>	<b>\$20</b>		
<b>Shirts: Tee-Shirts:</b>	(White, XL) <b>\$20</b>	<b>Note Pads:</b>	Full Size <b>4\$</b>
<b>Sweat Shirts:</b>	(White, XL) <b>\$25</b>		1/2 Size <b>3\$</b>

Mail the money to DEF CON, 2709 East Madison #102, Seattle, WA, 98112. Include \$4 for S/H.

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# The story behind the convention...

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I was talking on the phone with Terminator from Platinum Net (A high quality FIDO compatible network) and he was speculating about having a get together. Before you knew it, I was thinking about doing a multi-network get together on the West coast. The more we talked, the more it sounded cool to me. Eventually Terminator wanted to have it in Canada or in the East Coast somewhere. I wasn't gonna do an East coast thing.. all the stuff seems to go on over there, and I wanted something new. We ended up going our separate ways, and he has since moved to another country.

The more I thought it over, the more it seemed I should invite all the various factions, not just the underground fido compatible networks. I was running a bbs system that had CCI, Platinum, TOP, HiT, Thunder, Shark and Scurvy nets and posted like mad on them about the conference until my system's 1.2 gig unit fried (Well, smoked actually) I switched my attention to the internet and a larger span of potential speakers. If I could get a broad range of underground types together for a weekend of partying it would be great. Fuck, well, your reading this, so it must have worked to an extent, right? I was hoping to get Midnight Sorrow to speak, and he said he would until at the last minute he dropped his CCI network, bailed on his BBS system and completely dropped out of the scene. Shows how fast things can change.

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## Loozer Alert?

If your handle consists of a non-original name, beware of being easily forgotten, or worse, easily confused with others. While names from books are cool, others think so too and use them. I've seen more Steel Rats, Dark Knights, Cyborgs, Terminators, Red Wizards, Jello Biafrías, etc. than I can shake a stick at. Think about your handle carefully, for you build your whole reputation around it.

If you're on the internet, read FAQ files (Frequently Asked Questions) instead of asking on IRC or UseNet the same thing over and over. If your question seems basic, others might have asked it. In IRC it seems each channel has its own (un)written rules, so be careful when channel hopping.

On bbs systems, especially warez oriented ones, don't log on and go into instant leech mode. Try to upload some before leechin' out. Sysops tend to notice this crap and get pissed. Old software is lame too. If it's five months old check to see if it's ok to upload. Your k-rad electe one-stop-warez-shop might limit uploads to one month old, or less.

Being lame is more an attitude, but there is some guilt by association to be aware of. I've seen a few people catch lame and die off the systems. Hell, some could call me lame for even trying to write this shit down. Oh well.

## Top Ten Ways to Know if your a loOZer!

Self Test for L00zers (Agreeing with 7 or more is cause for execution. Kill 'em Dan!)

- 1 Being more concerned with games than events around you.
- 2 Believing that government knows best.
- 3 Trusting your privacy with others.
- 4 Assuming you can't get busted for "little" things.
- 5 Being illiterate.
- 6 CIEyEr CAPs ARE tHE suRE wAy to fAmE!
- 7 Believing any post that is significantly shrowded in technobullshit.
- 8 Not knowing what day it is and having no clue what the weather has been like this week.
- 9 Worshiping others on reputation alone.
- 10 Posting or speaking type 7 messages...
- 11 Making a top-ten list with 11 entries.

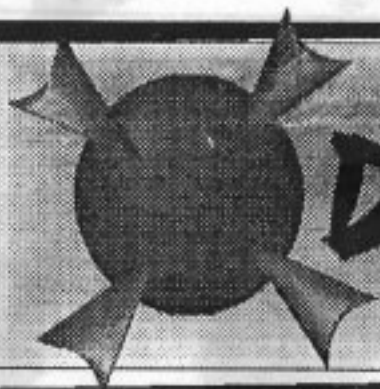
*Well, thats about it for this year.* I'm already planning next year's convention (Same bat time, same bat place, etc..) and would like to say that if all goes well it should be a lot larger / better organized. I'll be attempting to solicit some companies to sponsor speakers so I can afford to have some people flown in from around the country. ("Budweiser is proud to present..." -ha!) It will also allow more time for advertising and coordination between the various groups interested. My goal is to have a few systems on the IN, more speakers and a lot more in attendance. A few key magazine deadlines were missed for announcements and I feel information about this con only reached about 30 or so percent of the number it could have. On the other hand, only the most interested attended which is cool. I want to get better network coverage next time, considering that's what motivated this whole convention in the first place. I guess with better name recognition it won't be as hard next year, tho.

I'm writing a column for New Media magazine, sort of a general overview of whats happening on the net for perople who can't access it, so if you have any rumors or info you want mentioned, let me know! Stay in touch! Contact me about what the fuck at: dtangent@defcon.org or call the Def Con 'hot phone' at 0-700-TANGENT (0-700-826-4368)

## Thanks to:

All the Speakers who made this possible  
Interactive Generation for use of their computers  
Dead Addict for helping out on planning & production  
Everyone who showed up! Get CrAZy!!





# DEF CON 1

## Welcome!

So what's the deal with this convention? LET ME TELL YA SOMETHING. It looks like we got this convention room 24 hours a day for the weekend, and the entertainment is supposed to be free. We're in Las Vegas so there is cheap food and mega ways to loose your money. Try not to trash this place, I kinda want to try and do this convention every year. I hope some people brought lap-tops and a boom box so we can crank some music while transferring files. Fuck! So there we were trying to get this thing generated with the latest copy of Page Maker 5, and the group (don't know their name) that released it didn't include the fucking serial number. THATS A CRIME. WAREZ GROUPS THAT DON'T EVEN KNOW HOW TO PIRATE PROPERLY SHOULD BE RUN OUTTA BUSINESS. GO TO PIRATE SCHOOL, AND LEARN HOW TO PROPERLY .ZIP files & include SERIAL NUMBERS. NOT THAT I'M A PIRATE. I NEVER BREAK THE LAW. ESPECIALLY WHEN EVERYONE IS WATCHING YOUR EVERY MOVE. Evil convention planner. YOU MUST BE BREAKING THE LAW! Talking to.. to.. EVIL HACKERS AND PHONE PHREAKS. MUST BE TRING TO RUIN THE WHOLE DAMN WORLD. BUST 'EM DANO. SO NO illegal activity for this guy. IN ANY EVENT, I'll go over some of the speaker's biographies, give some basic information for INTERNET (IN) NEWBIES, A SUGGESTED READING list and a few other TASTY NUGETS.



**Last Minute Updates...** Interesting things always happen at the last minute, and this Con is no exception. It's like a day away now and we're still dealing with nightmares. *Dead Addict* (Who I got addicted to Mountain Dew) has been up for like 30 hours, and just sucked down five cans of Dew in 20 minutes. Yow! Here is an update on some of the more interesting things:

**Gail Thackery** jumped onto the speaking list at the last minute

**Len Rose** (Terminus) can't attend because his EVIL parole office thinks he'll take over Las Vegas

Our **Mystery Speaker** will remain forever a mystery

**Count Zero's** dad went *completely* ballistic, threatening to sue me if his son speaks. He then calls the Sands Hotel and rants and raves something like, "He won't be speaking! He won't! You understand? He won't." So I guess he won't be speaking.

# DEF CON I CONVENTION SPEAKING SCHEDULE

Saturday the 10th of July 10am, Sands Hotel, Las Vegas

## INTRODUCTION

Welcome to the convention  
**The Dark Tangent** (CON Organizer)

## Keynote speaker

Cyberspace, Society, crime and the future.  
To hack or not to hack, that is not the question.  
**Ray Kaplan**

## Civil Libertarians

-CPSR

Computer Privacy/1st Amendment/Encryption  
Gender Rolls and Discrimination  
**Judi Clark**

-USC Comp. Law

Legalities of BBS Operation, message content laws and network concerns.  
**Allen Grogan**, Editor of Computer Lawyer

## 'The Underworld'

-Underground

Common misbeliefs and rumors of the underground  
**Scott Simpson**

-Virtual Reality

The law, and it's intersection with VR  
**Karnow**

-Virus R ited

Virus developments and concerns  
**Mark Ludwig** (*The little Black Book of Viruses*)

-Unix Security

Future developments in unix security software.  
**Dan Farmer**

-Future of the CU

The future of the CU in the face of emerging technologies and trends.  
**Dead Addict**

-Internet

The security problems with Internet/Networks Overview of hacking  
**Dark Druid**

-Prosecutors/Hacker Hunters

Their concerns/problems and suggestions for the 'underworld'/Q&A  
**Gail Thackery**