

telebrief

DEUTSCHE
BUNDESPOST



9. Expéditeur (y compris code postal) Absenderangabe (mit Postleitzahl)

Chaos Computer
Club, D-69 Heidelberg

Kabine Nr.

Nr. des Einnahmenschweites



Bescheinigung

über
Telebriefgeb.
~~Fernsprechgebühren~~
= 13 DM Pf



rota 5.86-8765432
A7/50-36rc

936114000-8

Hinweis
Der stark umrandete Teil wird von der Sendestelle ausgefüllt

1. Bureau d'origine / N° de téléphone 6900 Heidelberg	2. Bureau transmetteur Internationale Sendestelle	3. N° du document Übermittlungsnummer 062211101021
4. Pages 1	5. Date (et heure) HEIDELBERG cq 11-8.89-14 6900	Gr.
6. Re	7. Mode de remise et mentions de service Auslieferungsart und Dienstvermerke F 60032 2 6553226	
8. Destinataire (y compris code postal) Empfängeranschrift (mit Postleitzahl) Eric Guldentops S.W.I.F.T. Brüssel		

915 921 000-7

Now! You GOT A FAX FROM: 1

CHAOS COMPUTER CLUB

Die Datenschleuder



Informationsdienst zu den Problemen von Datenschutz, Datensicherung und Ordnungsmäßigkeit der Datenverarbeitung

Wednesday, 20 September

Afternoon, 14.30

AD HOC DISCUSSION GROUPS AND SPECIAL INTEREST SESSIONS:
COMPUTER SECURITY

Bernd R. Fix, Dipl.-Phys., Chaos Computer Club, Germany

The hacker's view of computer security and their approach to privacy in a information society will be presented, based on the preamble of the statute of the Chaos Computer Club: "The information society of our days is not imaginable without computers. The use of automatic data processing and electronic information exchange include chances but also risks for the individual and the society. Information and communication technology changes the relation between man and machine and between people in general. The development towards an information society requires a new civil right of unlimited worldwide communication. The Chaos Computer Club is a galactical organization of beings, irrespective of age, sex, race and social position, which promotes this boundless freedom of information. The Chaos Computer Club is also concerned with the impact of technology on society and the individual and spread the knowledge about this development..."

All the best to you,
Bernd

TO: S.W.I.F.T.
c/o Eric Guldentops
Brüssel, Belgien

S E N D E R I C H T

Gegenstelle: 32 Z 6553226

Datum: 11.08.89

Zeit: 13:53

Dauer: 01,11"

Seiten: 02



SOCIETY FOR WORLDWIDE INTERBANK FINANCIAL TELECOMMUNICATION S.C.

22 June 1989

Mr Bernard Fix
Mitarbeiter
Chaos Computer Club Hamburg
Handshuhsheimerlandstrasse 45
6900 Heidelberg
F.R.G.

Dear Mr Fix,

It is my pleasure to enclose the programme for the S.W.I.F.T. International Banking Operations Seminar - SIBOS '89 - to be held in Stockholm, Sweden from 18 to 22 September. I am very grateful that you have accepted to be a speaker and look forward to your active involvement in what promises to be an interesting week.

All SIBOS presentations are printed in a bound volume for distribution to participants on the last day of the seminar. A copy of last year's volume is enclosed. As you can appreciate, considerable time is required for production of this quality material. Delegates are always disappointed if any presentations are missing from the set, so we ask your cooperation in sending us your complete advance text by Monday, 10 July, at the latest to our Public Relations Department, attention Phyllis Turner. You may send typescript, telefax or a Macintosh or IBM-compatible disk in plain ASCII or Ms-Word format (preferable with a hard copy as back-up). Your text may include a limited number of simple graphs. We can arrange for redrawing of simple illustrations, but photographs cannot be included.

To guide the delegates in their choice of sessions during the week of SIBOS, an Agenda and Guide is included in their registration kit. For each stream and session, the Agenda will include a list of speakers, including name and affiliation, the title of the individual presentation and a short (approximately 50 words) summary of the presentation (a sample of format is attached). Your presentation title and summary should reach us not later than Monday, 10 July, and should be sent to S.W.I.F.T.'s Public Relations Department, to the attention Phyllis Turner. While this deadline might seem far in advance of SIBOS, it allows us the time required for printing and shipping.

SOCIETY FOR WORLDWIDE INTERBANK FINANCIAL TELECOMMUNICATION S.C.

To help us prepare press information and session introductions, we would also like to have your photograph and a short biography if you have not already forwarded this material.

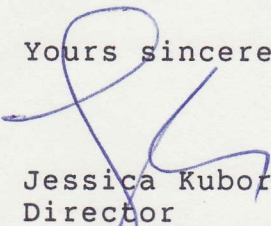
In order to avoid overlapping discussions in the presentations, may we suggest that you contact your colleagues in your session. Should you have any queries about the topic of your session, please contact me.

The auditoria at the Stockholm Congress Center in Stockholm are quite large and therefore we recommend using 35 mm slides for visual support of your presentation. We have enclosed some guidelines which we think you will find useful. On Tuesday September 19, there will be a thank-you dinner for all speakers and I ask you to reserve this date if at all possible. There is also a party on Thursday evening for all the participants and we hope you will be able to join us.

Accommodation will be provided for you at the Grand Hotel. Kindly inform us your arrival and departure dates as soon as possible. As a speaker, you are our guest and S.W.I.F.T. will be pleased to reimburse all your travel and accommodation expenses.

Looking forward to seeing you in Stockholm,

Yours sincerely,



Jessica Kuborn
Director
Corporate Communications

encl. SIBOS '89 programme
Guidelines
SIBOS '88 speeches
Sample summary presentation

Hackers

Talk @ SICSOs '89 in Stockholm
20 Sept. 1989, by Bernd Fix



First I have to beg your pardon, but English is not my mother tongue so there will be a lot of mistakes in my talk.

Thank you and welcome to what you might think is the entertainment section of this conference. But computer security is a serious matter - although a lot of funny things are happening if computer layman in industry management have to decide on what to do about computer security in their company. I will come to that later on.

In my talk I don't want to discuss the technical or organisational problems of computer security - I leave this work for Mr. Peter Brown who is more experienced in these things - I want to talk about hackers - in general and the Chaos Computer Club in Germany. At first I will give you a short historical review of "hacking" and the development of the CCC during the last decade. Then I am going to talk about the

- "Hacking" has primarily nothing to do with computers. The word originates back to the late 50's when MIT students ^{formed} had a club where they spent all their free time to build up and to advance a model railroad. The people who build the most tricky and fascinating points in this model railroad motivated the hackers to give you the chance to understand them. After that the everyday-work and the goals for the future of the CCC will be explained. At least at that time all of you will have realized

that the activities of the CCC are not limited to even
broad to computer security. But I will
further way talk by discussing some of the
security problems people seem to have with
hackers.



what called hackers. So to "hack" means to
find the most fascinating, trickiest and amazing
solution for a given problem - not only technical
problems. So if you call a person a "clerk person"
you can call him a "hacker" as well. So what does
it mean to hack in a computer system? Today all
people use expensive laser printers to do the handcopy
their data, but some years ago they used these
dot matrix printers which standard output devices.
Well, their are extremely noisy, but if you listen
carefully you will notice a certain tone a frequency
when the printer performs a line feed. You can
also notice that the time interval between 2 line
feed determine the frequency. So what hackers did
was they played Beethoven's 5th symphony on
this matrix pt. by just sending line feeds to the
printer. So a lot of people went through the
printer ~~test~~ and no one contains a readable
character. But you heard went. You will a-
agree that playing went is not the intended use
of a printer. But you may be a little bit confused
now because you ~~asked~~ don't know what play-
ing went on a printer has to do with breaking
into computer systems. (your definition of hack-
ing) I will explain this in detail when I talk
about the XTEA - attack.

Although hacking is not limited to computers
there are just ~~hacker~~ people who call themselves
hackers who work with computer systems.

there are hackers since the invention of the computer. but there was no hacker club in Germany before 1981. This was the year the Chaos Computer Club was founded in the rooms of a left wing daily newspaper called taz



(die Tageszeitung). The name of the group at that time was not chaos computer club but "tu wat" a german slang for "do something". The founders (about 10 people) were political motivated to found a comp. club. They wanted to spread computer and computer knowledge to the people, to the peace movement, women's lib, environmental protection groups.

The club settled in Hamburg, because most of the founders came from there. The next 5 years were dominated by small projects like computer programs for free lance journalists and so on. But

1984 was the year the CCC gained international attention. In Germany the PTT offered a data and information exchange system to the public called Btx - Bildschirmtext. It's compatible to MINITEL in France or (CEPT, PRISTEC) in England. The system knows two different kind of participants users, who retrieve information and pay for it, and institutions, which offer information and get the fee. The CCC always wanted to be on the more interesting side of life so we decided to offer information but for free. To cover costs we had a donation page which costs about \$5 if you call it retrieve it but it contains no information ~~just~~ just a "THANK YOU".

By playing around with the system people ~~found~~ noticed a security hole (well a programming mistake): If you sent a message to another user on the system and if this message contains exactly 1649 characters you provoke an address error and the system displays undetermined

memory locations on your screen. Hackers make a mistake just once - thereafter they make it intentionally. So people were provoking memory overflow again and again - until something like a ~~pass~~ user-id - password pair appeared in the screen. It was the account of the "Hamburg Sparhase" - a savings bank in Hamburg. So what the people did is, they phoned the official data protection agency in Hamburg and announced they have something important to tell tomorrow morning - in a press conference. At that night the bank's user-id and password were used to call the donation page every few seconds - over 13.000 times that means about \$70.000. The next day the "hack" was announced and the money was given back - but it was a healthy shock for the promoters of electronic home banking in Germany at that time.

1984 was also the date of the first Chaos Communication Congress held at Hamburg every year between Xmas and New Year since then on. On these congresses about 500 people from all over Europe meet to exchange experiences and information. In 1986 the CC became registered - in Germany you always have a registered club if over the seven people come together. Since 1986 the Club concentrated on Computer security. Over the years it became something like a clearing house between hackers and state authorities, so we were not surprised to find an envelope in our mailbox (with no guide address) in which people claimed they hatched a coup network and asked for help to get out of this because also military systems were concerned.



Motivation and philosophy of the CCC



If you want to understand young kids breaking into computer systems you have to travel back in time to the time you were 15 years old. What was your hobby: stamp-collecting, cars, music, sports. What ever it was if you really loved it you would have done anything to reach a goal you set for yourself - a certain stamp or record or I don't know. Do you remember your unceasing when you tried to reach your goal, your expectation - and the deep satisfaction when you finally succeed? And then - after a while - the same unceasing again, a new goal to be reached. Times are changing but young people always have the same feelings in what they do although the object they work with changes: You were collecting stamps - today's kids work with computers. Computers are even more fascinating - they are an intellectual challenge. These kids are no computer criminals - but they might become criminals if you continue to tell them they are.

Just one example: One of the computer phreaks who do espionage for the KGB told me that for him as a 16 year old kid it was no a huge step from being called a criminal to really commit a computer crime and to get money for that.

In Germany we have a nice saying "Ich bin der best ruhmlos, lebt sich gänzlich ungenügend" or in English "If your reputation is gone, you can do anything you like". Of course the hackers are not innocent of having the image of computer criminals. Back to you the feelings you have if you are 15 years old. You are absolutely fascinated by your hobby, nearly never

no friends because you work all day with your computer - and then found a way into a mainframe. At that time the journals lists clabble each other to get the first



interview with you. Suddenly you are an interesting person - not only for the press - but also to the people you live with. People at home and at school who always thought you are the most boring person in the world. At that moment you accept any press image - and the journalists are just interested in sex, drugs and crime.

And for a 15 year old kid it's even a honor to be called a criminal (that makes him more interesting) and he can't foresee the impact this will have on his life.

This is the point the CCC comes in. We want to be an educational institution for computer kids: To show them that every activity in the computer sector is absolutely different from stamp collecting. Comp. and technology in general ~~are~~ are the basis of the functionality of the society of our days. So it requires a development of responsibility for what you do. Computer skills alone are not enough - even dangerous. You have to think about the impact on society and your own life. As a guideline we have a Hache ethics with several points, are 13. Hands off from arbitrary and industrial computer systems. The CCC tries to guide the kids to release their responsibility.

Work of CCC



This is one of the things the CCC does. And it's quite different from what the people think we are doing. I know that because in all talks and discussions I am asked: "Do you spread rumours?" And because I am an honest person I have to confess:

"Yes, we do!" After a few seconds of silence - the asking person is always a little bit confused - I continue: "We are spreading mind rumours. We tried to infect other people's mind with our ideas of e.g. of the idea of personal freedom in an information society."

After working on computer security for about 5 years the Chaos CC is now focussing its interest on social implications of computer technology in society. This is reflected by the preamble of our constitution. It says: "So our duty work now is: building and maintaining a public network for uncontrolled information exchange (Tschernobyll). To talk to political parties about the protection of privacy in a computer society and to an equivalent to the American 'freedom of information act'. We are discussing technological developments like LSDN and the impact of these technology on society. Today we face a lot of problems like environmental pollution, third and fourth world and many more. It's our belief we can solve these problems of the groups that form the society fight against each other."

This brings me to my last point:

What's the reason for me to participate in meeting like this? We you believe we want to make your computer system more secure and to increase your profit in this way you a absolutely wrong.

I state myself as a person with left wing political ideas. I am not bothered if a company or a bank loses billions of dollars because of internet computer viruses. But I am interested that the society has the possibility to develop and not to work in case of a ~~crisis~~ nation or even that we compute break down. Just take USD:

And one thing we learned over the years: Every large org. has its regions and operations. And it's conservative and progressive managers. And it's necessary to talk together. This is way off to you: let's start to talk. Not only we do leaders have a responsibility for what we do you too have a responsibility for this society, not only the growth and profit of your company.

Thank you for listening.





SIBOS '89

STOCKHOLM

**Bernard
FIX**

CHAOS COMPUTER CLUB HAMBURG

GERMANY, FED. REP.

SPEAKER.