

**Title of Session:** Cyberethics, Cybersafety, and Cybersecurity

**Moderator:** Davina Pruitt-Mentle

**Title of File:** 20051003cybersecurity

**Date:** October 3, 2005

Room: After School Online

**BJB2:** Davina, we usually start the discussions with introductions

**BJB2:** and a reminder to new members to go to Actions in the top right of the chat window and DETACH

**DavinaP:** excellent--so please start by sharing who, where and what interests you about Cyber awareness the most

**BJB2:** I'm an art teacher in Pennsylvania and a helpdesk volunteer for Tapped In. I'm more in favor of Cyber awareness than I am in filtering...think it's more realistic

**DavidWe:** I help teachers learn more about technology - often math/science teachers - I'm in New Jersey, near New York City

**EmilyW:** I am Emily from TX, a recent college graduate with a degree in Information Technology, I studied some of these topics in college

**AndrewP:** Who: Andrew (Andy) Pincon, where, Chicago (City Colleges of Chicago), what: I manage a large videoconference distance education system out of one of the largest community colleges in the midwest. I've also been involved in cybersecurity issues for our institution and for a network of state agency business centers

**DavidWe** hopes Andy has had a good 35 hours since the last time he saw him in TI

**DavinaP:** Wonderful, Welcome. I am Davina Pruitt-Mentle and I am the Director of Educational Technology Policy, Research and Outreach within the College of Education at the University of Maryland

**AndrewP:** David: yes, busy day but good all around and what about yourself?

**DavidWe** smiles

**DavinaP:** One of the areas I am especially interested in is Cyberethics, Cybersafety and Cybersecurity

**DavinaP:** What do those "C3" terms mean to each of you?

**DavidWe** . o O ( ethics, safety, security on the Internet )

**DavidWe** smiles

**DavinaP:** And what does "ethics" mean to you---on the internet

**AndrewP:** Cyberethics: professional integrity applied to Cyberspace and Cybertechnology. I just completed a User Manual for our Illinois Dept of Commerce on the use of the videophone network we install and maintain address Cyberethics and Cybersecurity

**DavidWe:** The same - treating people as you would want to be treated - as in real life

**BJB2:** I also think that ethics, safety and security should cross over from f2f experiences

**DavidWe** hugs BJ

**DavinaP:** I am particularly interested to hear from your own experience what "you feel teachers need to know more about" -related to these 3 areas?

**EmilyW:** I am not familiar with cyberethics. To me cybersafety and cybersecurity means learning how to be safe on the internet and learning about viruses, spyware, and stuff to related to that

**DavidWe** thinks teachers don't need to worry if their credit card information will be stolen when using it for buying stuff online

**BJB2:** I think the primary thing teachers need to know is that knowledge is power....

**EmilyW:** they need to learn what information is safe to share online

**DavinaP:** Emily--over the past several years the terms have crossed over as Bj mentions...

**JeffC** had to pick the lock to get here... cybersecurity is pretty tough around this place.

**DavinaP:** for a while there was a lot of focus on safety--curriculum on safety (there is 1000) and then along came filtering....

**DavidWe** smiles

**DavidWe** hands Jeff a copy of the key

**AndrewP:** We install a software program on all of our 18 campuses networks, Deep Freeze. It prevents the users (students) from loading anything on the workstations that is not supposed to be there. Each time the system boots up it wipes out all the previous

session data. It automatically formats a separate drive partition and each session goes only on that partition and when the user is finished it wipes that drive clean

**DavinaP:** then the focus shifted into copyright etc... now we see more on security..

**DavinaP:** but the three really cross over --and should

**JeffC:** Many schools have that or similar software Andrew. Question: How do teachers add favorites to computers... so that their students can surf sites that the teacher wants? In our district... there is no "turn on turn off" deep freeze option. Result: students don't surf the net.

**AndrewP:** Yes, our state network filters sites every night we search for inappropriate sites and automatically update all libraries, schools and state computers

**JeffC:** Is there also an option to unfreeze a site Andrew? What's the protocol for that?

**DavinaP:** Andrew do you think this filtering is the direction to go?

**DavidWe** has a question but doesn't want to interrupt Davina

**DavinaP:** go ahead

**DavidWe:** Are we concerned if a student PHYSICALLY brings a copy of "Playboy" to school?

**AndrewP:** create a word document with the links, more work I admit, but we have too much invest in these networks to "trust" high school and college students who will find other less appropriate uses and possibly install viruses that bring down the whole network

**AndrewP:** too much invested

**DavidWe** agrees with Andrew with respect to bringing down networks

**DavinaP:** It is usually taken away and or different local school systems have different policies---but not sure what you are asking

**EmilyW:** another thing, I hope teachers do know this, is not to click on popups and anything like that

**AndrewP:** Teachers in K-12 don't know that, though

**EmilyW:** they don't?

**AndrewP:** and they do click on any number of links that come up

**EmilyW:** and what about downloading programs that are not safe?

**DavinaP:** So let's take a few minutes and share with me some of your "war stories" of what teachers /students have done--then we can discuss what or how we might be able to help teachers gain knowledge in this area

**AndrewP:** most teachers in Chicago at least are not totally comfortable with computers even at this time

**DavidW:** we would extrapolate that to Philadelphia

**JeffC:** What browser do Chicago teachers use?

**AndrewP:** I was on the Technology Task Force for Chicago Public Schools, K-12

**AndrewP:** We have 600 schools and about 450,000 students

**DavinaP:** No one has war stories of things that have happened?

**JeffC:** I've got plenty

**AndrewP:** of the 600 schools a little over 100 did not have a technology plan and refused to develop one with our help. The teachers felt they had enough work and did not want to deal with more technology on top of their already difficult job dealing with an urban school environment and all that goes with it, gangs, abuse, child neglect,

**EmilyW:** my computer crashed

**EmilyW:** after downloading programs bundled with spyware

**DavinaP:** Jeff please share

**JeffC:** but I want to know what browser Chicago students use first.

**AndrewP:** IE

**JeffC:** wrong answer

**AndrewP:** and Netscape

**JeffC:** better answer

**DavidW:** smiles

**DavidW:** Opera?

**AndrewP:** It's not my decision it's the CPS IT Dept

**JeffC:** I'll get back to why students shouldn't be locked into IE... especially if you're into security later.

**AndrewP:** I don't think Bob Runci the CIO of CPS would use Opera

**DavidWe** apologizes for joking

**JeffC:** I ran a computer lab in a jr high

**DavidWe** works in many computer labs

**JeffC:** got the kids email accounts at edmail.com'

**JeffC:** told them "if anything bad happens... tell me"

**JeffC:** one day a student called me over... there was a vile email sent (ostensibly) by a kid three seats down.

**JeffC:** I confronted the kid.

**JeffC:** He denied doing it.

**JeffC:** I asked him "who else knows your password?"

**JeffC:** He pointed out three kids behind him.

**JeffC:** I confronted them.

**JeffC:** They all denied it and pointed to a fourth kid in another class.

**DavidWe** smiles

**JeffC:** I told them I'd check with this kid... but if I had to do it and it was one of them... they'd be in worse trouble.

**JeffC:** I also told them I would traceroute (bluff) and confirm who sent the email.

**JeffC:** Next period one of the kids fessed up (before I confronted the fourth kid).

**JeffC:** I thanked him for his honesty.

**JeffC:** This was a kid who was big trouble in school... all teachers hated him.

**JeffC:** But... like most kids... he wasn't bad... just bored to death.

**DavinaP:** so folks should not share passwords

**JeffC:** I told him "OK... you're banned from computer lab for a month...

**JeffC:** ... you need to write letters of apology to all concerned.

**JeffC:** And you have a choice in life...

**JeffC:** either be the kind of kid who has to be banned... or do something useful with your skills.

**JeffC:** He already had a webpage.

**JeffC:** He grudgingly wrote the letters... and in a month came back with a book on J++

**JeffC:** He asked if I could teach it to him.

**JeffC:** I told him if I knew J++ do you think I'd be here today?

**JeffC:** But I told him... I could get him a mentor online... which I did.

**JeffC:** And that kid? Is...

**JeffC:** Bill Gates

**JeffC:** ok... I made up the last part.

**JeffC:** but the rest of it is true. The key here is not that kids shouldn't just not share passwords... the key here is that kids are bored out of their minds because most curriculum really doesn't challenge them... either online or off.

**DavinaP:** other stories...

**EmilyW:** are you talking about k-12 students or college students?

**EmilyW:** (for a story to share)

**DavinaP:** a middle school in the county I live in had a kid who took another kids AOL account and sent nasty emails to middle school girl that had broken up with him (yes middle school) the student with the account was the one in trouble until the brought in computer forensic unit to trace down

**DavinaP:** any stories would be interesting

**DavinaP:** another was 2 of our local school systems in Maryland last year--networks went down because teachers wanted to open the virus attachments to "see what they were like"

**JeffC:** . o O ( cute! )

**JeffC:** Our CIO at the local university opened a virus that spread to the system because he thought it had come from a friend.

**DavinaP:** I guess we could have told them what it look like--unplug your computer

**EmilyW:** As I already mentioned I am a recent college grad, my first year of college I downloaded a bunch of software

**DavidWe:** Often people DO open virus-laden attachments BECAUSE they come from friends

**EmilyW:** I thought I deleted programs that I did not want anymore

**EmilyW:** later I learned about spyware

**EmilyW:** 3 years later, my computer crashed

**DavinaP:** Other occasions teachers randomly forward chain mail and or hoaxes thinking they are doing good

**EmilyW:** I got a hoax mail too

**EmilyW:** but it ended up it wasn't a big deal, the file did not do anything

**JeffC:** When someone says 'forward this to everyone'... don't... when something says "You are a Winner"... you're not...

**EmilyW:** (wasn't needed it)

**EmilyW:** back to what I was saying, I lost everything on my computer

**JeffC:** I'm still waiting for my \$17 million from Nigeria to show up.

**JeffC:** sorry Emily

**EmilyW:** even the space I was allowed on the campus servers I could not save everything

**EmilyW:** but I made sure I saved a few things

**DavinaP:** so ...so far helping teachers learn (and how to model for the students) NOT to share passwords, and become aware of not opening attachments, forwarding--awareness initiatives would be a big help...any others?

**EmilyW:** now I don't have the stuff I did my first 2 years of college

**EmilyW:** (which is not good for my job search)

**DavinaP:** The Nigeria is out of control

**EmilyW:** so I get a new computer and decided not to download stuff

**JeffC:** Well... the latest one came from Sri Lanka... I wrote back and asked "Did you move?"

**EmilyW:** unless I knew it was safe

**DavidWe . o O ( "Know what you are downloading" )**

**AndrewP:** it's now beyond even Nigeria, I received something from Canada today, I think it's gone global

**DavinaP:** perhaps they could also learn how to set security levels on their computer to screen out--filtering opinions

**DavidWe . o O ( Macintosh )**

**EmilyW:** the next semester I had to do a presentation in one of my classes, we learned about security stuff in there

**EmilyW:** I could do any topic, so what did I do? Spyware

**JeffC:** Here is a good solution for your home computer: Never surf with Admin status... if you're using XP... create a second limited account... you can download stuff... but you can't install it... neither can anyone else.

**DavinaP:** its only a matter of time when MACs get the focus as well

**DavidWe** likes Jeff's suggestion

**EmilyW:** I figured other college students needed to learn the stuff too

**EmilyW:** I made a sheet on it, which I still have

**DavinaP:** what other areas of C3 do you think teachers need to know--beyond security

**JeffC:** Another tip there Emily is to create a personal Yahoo group... save important files there... save \*all\* important files online \*somewhere\*.

**AndrewP:** I have to go now. There's a PBS program on DaVinci's inventions on tonight. See you all online later. Bye for now

**DavinaP:** bye bye

**AndrewP** left the room (signed off).

**EmilyW:** Jeff, I was lucky enough to find one of my pages online

**JeffC:** cool

**EmilyW:** I had a website I made my first semester in college

**EmilyW:** I went to Internet archive

**DavinaP:** so learning to backup work would be another topic to have teachers know

**EmilyW:** and found a few of my sites

**DavinaP:** when it comes to social and ethical issues what does this mean to each of you?

**DavidWe** . o O ( backing stuff up is critical )

**DavidWe:** Plagiarism?

**DavinaP:** A big one

**DavinaP:** I wanted to start the discussion this month by looking at what others have found to be critical areas--

**DavidWe** listens

**DavinaP:** and then continue the forum addressing each of these more in depth each Monday...

**DavinaP:** does everyone know October is Cybersecurity awareness month

**DavinaP:** [http://www.govtech.net/magazine/channel\\_story.php/96846](http://www.govtech.net/magazine/channel_story.php/96846)

**EmilyW:** I didn't

**EmilyW:** until this session

**DavidW** thought October is Breast cancer awareness month

**JeffC**: what district can afford [www.turnitin.com](http://www.turnitin.com) or ithenticate?

**EmilyW**: (when I read about it today)

**DavinaP**: jeff there are other strategies besides turnit in

**JeffC** listens

**DavinaP**: we kick off the month of activities with our 4th annual conference this week see: <http://www.edtechoutreach.umd.edu/C32005/index.html>

**DavinaP**: and there are several other activities happening throughout the month see: <http://www.staysafeonline.info/> still need to add Tapped In sessions to the calendar

**DavinaP**: Jeff regarding strategies ...if all you want to do is detect typing in a string in google can get most of the hits kids use-

**DavinaP**: but there are strategies like assigning specific topics rather than open broad and having drafts turned in a long the way ...

**DavinaP**: that help eliminate the problem rather than just catch it...also sending students to the paper mill sites to view the papers (and see how poorly they are written

**JeffC**: right... I know about google.

**DavinaP**: asking students to add in the paper parts related to their classnotes and text reading ..

**JeffC**: I don't know though about the solution... I think that getting kids to enjoy writing... getting them to become actively engaged in project based learning, etc... doing that... rather than trying remedial "security" measures.

**EmilyW**: has anyone in k-12 taught about these topics?

**DavinaP**: not sure what you mean by security measures

**JeffC**: that makes the teachers into cops... and having an attitude towards computers that the admin and teachers are responsible for keeping kids safe... placing the burden on the "grown-ups" instead of making kids responsible...

**JeffC**: Kids can argue "Oh... this site must be ok... it wasn't filtered"... when they know darned well it isn't ok.

**EmilyW**: gotta go

**JeffC:** Our district bans chat... tries filtering... but they only filter port 8000... I've connected to several chat sites on student computers.

**BJB2** waves goodnight to Em

**DavinaP:** that's the key---teaching HOW to something correctly and feel good about it rather than the short cut

**JeffC:** Must be ok... it's not filtered.

**JeffC:** Kids have taken shortcuts (copied papers) for \*years\*... trying to catch them in the act won't really stop things... and the attitude and approach that teachers will actually spend time trying to find plagiarized papers again... makes the teacher a cop... not a teacher.

**DavinaP:** perhaps this will be the special topic for next week plagiarism

**JeffC:** And of course... this presumes that the student turns in the paper online... not in paper format.

**JeffC:** You're the boss Davina... I'm just the obnoxious educator!

**JeffC:** ask David... he'll agree with me.

**JeffC:** How about Plagiarism vs. Motivation?

**JeffC:** my argument is that students plagiarize because the assignments suck... not just because it's easier... that they can't do them, etc. (although of course there is that too).

**DavinaP:** it is a tough topic...

**DavinaP:** I was trying to find my presentations on this to send a link

**JeffC:** try and plagiarize a webquest some time.

**DavinaP:** actually a teacher in Maryland built a webquest...

**DavinaP:** and the format and features were so much like another site educational site they contacted the university and the teacher had to take it down

**DavidWe . o O ( I agree with Jeff )**

**JeffC:** oh... I didn't mean the webquest itself (and there are thousands freely available)... I mean the results.

**DavinaP:** I hope everyone returns on Monday we will discuss this more next Monday--I will also post some resources we have used in workshops for folks to visit

**DavidWe:** Thanks, Davina

**JeffC:** cool Davina...

**DavinaP:** Thank you all for coming and next Monday same time --HOT topic Plagiarism