

**Title of Session:** C3 - Cybersecurity Awareness

**Moderator:** Davina Pruitt-Mentle

**Title of File:** 20090105cyber3

**Date:** January 5, 2009

Room: Cyber 3 Group

**DavinaP:** What I was going to talk about was the C3 Baseline Study that I did.

**DavinaP:** It was sponsored by the National Cybersecurity Alliance.

**SergioV:** I have participated in one before... maybe 2 to 3 months ago.... I want to come back and learn more.

**DavinaP:** I posted the file to the room.

**DavinaP:** And I will be talking about some key results we can use as a jumping off point.

**DavinaP:** The survey is also at:

<http://staysafeonline.mediaroom.com/index.php?s=67&item=44>

**DavinaP:** The goal was really to find out what educators and associated groups (i.e. technology coordinators, state departments of ed, etc.) thought was going on with C3 issues.

**SergioV:** great

**DavinaP:** Before I give anything away, what are your opinions of what you know and what your colleagues know about cyberethics, safety, and security.

**DavinaP:** and their responsibilities in the classroom.

**DavinaP:** I guess - I should also ask Sergio - what is your role in education?

**SergioV:** I just got my credentials and am really interested in using tech in school.

**DavinaP:** Are you/have you been teaching? What subject and what level?

**SergioV:** Cyber ethics I can not think of anything now.

**SergioV:** Elementary for 7 years as a substitute teacher

**BJB2:** did you see the article that I posted to the group discussion board, Sergio and Davina?

**BJB2** . o O ( calling for schools to create a cyberbullying policy )

**SergioV**: I started to read it 5 mins ago

**SergioV**: just the intro

**DavinaP**: Didn't notice it until you said. I have been in a class all day.

**DavinaP**: Without looking at it, one thing I could say is that very often they react to the issue of the day.

**DavinaP**: But they don't look at the whole idea of cybersecurity, cyberethics, and cybersafety as a whole.

**DavinaP**: For example, schools tend to firewall their networks from "bad" sites.

**DavinaP**: This may cover them from the security and legal issues.

**DavinaP**: But what happens to the kids when they go home?

**SergioV**: I agree... in my case, I don't know how to guide students to "safe" sites

**DavinaP**: Everyone eventually has to take training wheels off their kids bikes. We need to talk about behavior as well as physical/hardware/software things.

**DavinaP**: Here are some blurbs from the key findings (that are going to be released in Education Digest.

**DavinaP**: currently, as perceived by educators, students receive little to no training on topics related to Cyberethics, Cybersafety, or Cybersecurity. Data indicate that states and local education agencies place the majority of responsibility for conveying C3 content to students in the hands of educators. This responsibility is not necessarily translated to action; the content is not mandated and teachers feel unprepared to cover the topics. Some information, primarily ethical issues (copyright, downloading, and plagiarism), may be conveyed in Acceptable Use Policies (AUP) and/or student handbooks; however, comprehending the information is often left as an independent activity for the student.

**DavinaP**: Any thoughts?

**SergioV**: And when can we teach cyberethics, cybersafety...

**SergioV**: My day is full!

**SergioV**: I think that most of my stress comes from knowing too little about tech and its uses inside the classroom.

**DavinaP:** interesting are you aware of the new federal mandate passed that will require schools to teach cybersafety?

**SergioV:** Oooooh... that sounds great and will teachers be instructed on how to do so and are we going to get time during our busy day to teach it?

**DavinaP:** well I think that will be what the school districts will have to figure out-- similiar to when does one teach "technology"

**SergioV:** Is this going to happen nationwide?

**SergioV:** oh!

**DavinaP:** yes it will be linked to the eRate funding--trying to find the link for you

**DavinaP:** I know it's a S 1492

**SergioV:** great.... in my case... I often talk to administration and try to discuss tech with them...every time I bring in something I have learned I look at their faces and they seem to not be interested.

**DavinaP:** <http://www.cbo.gov/ftpdocs/98xx/doc9897/s1492cleared.pdf>

**BJB2** . o O ( they probably don't understand, Sergio )

**SergioV:** or perhaps have too much in their mind to pay attention to the changes that tech will bring to schools

**DavinaP:** <http://www.opencongress.org/bill/110-s1492/blogs> blogs about it--as usual states/schools will be required to intro safety content to receive funding but of course there is no funding to support PD training or activities---perhaps a new admin will change things

**BJB2** . o O ( or move to Washington, DC. Rhee seems to be interested in PD )

**DavinaP:** I am interested in knowing what either of you would feel would be the best way to present the info to teachers and WHAT topics should be included--esp with the wide range of items and usually only a couple of hour workshops possible

**BJB2:** question of the century, Davina!

**SergioV:** first of all, I must learn what students are often interested in so that I can be prepared on what safety issues must be taken into consideration

**DavinaP:** here's a little better overview <http://www.eschoolnews.com/news/top-news/index.cfm?i=55557>

**DavinaP:** Take a look at this to see what students are up to  
<http://www.eschoolnews.com/resources/keeping-online-learning-secure/>

**SergioV:** k

**DavinaP:** The first article discusses AUP and shares "Most students comply with the district's AUP, but others view it as a challenge to their technical expertise and will try to violate the policy by finding ways around the district's filtering systems, Biddle said." do you have problems or have you had students find ways around filters?

**DavinaP:** more interesting would you know how to "get around them"?

**SergioV:** wow... interesting how tech is changing school curriculum...

**DavinaP:** the article Getting a grasp on student hackers shares a little...Lloyd Brown, director of technology and information services for Virginia's Henrico County Public Schools, said tech-savvy students in his district recently rallied a group of 30 peers to meet in the quad during their school's lunch break. Sitting side by side, the students continuously hit the F5 key on their laptops, which refreshes a web page—devouring the school's internet bandwidth—and eventually broke through the school system's network filter, allowing students to view pornographic web sites. School IT officials from across the county were concerned about the security breach, Brown said, because laptops are becoming more commonplace—especially in high schools.

**SergioV:** I was reading the excerpts and they make me feel tied up when it comes to how unwanted people can and are trying to hack or get into school's

**SergioV:** wow.... that is amazing!!! How much students know ....

**DavinaP:** perhaps if teachers knew about this tactic they might have had a clue when they saw the kids with their laptops all hanging around

**SergioV:** I feel so little as I read.... this is why I must learn more!

**BJB2:** the scary thing is that the kids know all this stuff....and the teachers don't. Don't feel badly, Sergio. You're in good company

**SergioV:** that's right!

**SergioV:** now is time for me to educate myself... on my students behalf..

**BJB2:** and you're also a leader in that you want to learn more

**DavinaP:** the latest is of course all the bots going wild on facebook--something students DO NOT have a handle on

[http://digg.com/software/Automated\\_Facebook\\_Profiles\\_Meet\\_Facebook\\_Bot](http://digg.com/software/Automated_Facebook_Profiles_Meet_Facebook_Bot)

**SergioV:** now I understand why I must be informed on cybersafety.

**SergioV:** what is a bot?

**BJB2:** something else that I'm concerned with, Davina, is that there are a bazillion new programs and web 2.0 tools being added every day...so whatever you change today, will be different tomorrow. How do we keep up?

**BJB2:** a bot is a robot

**BJB2** . o O ( an avatar, artificial intelligence (or lack thereof) )

**DavinaP:** here's a good overview <http://people.bakersfield.com/home/ViewPost/22121>

**SergioV:** wow... as I read I can't believe it

**DavinaP:** students (or anyone) gets a message from one of their friends( whose account has been broken into and is someone else trying to break into other accounts) saying something like "Hey check out this site" or "Hey watch this really funny video I found" or something along those lines and they give you a website to check out.--but the website is really a mock up they have started to get pretty good and even checking the url's at the top do not reveal they are a scam

**DavinaP:** so perhaps teachers awareness of these type issues--for their own knowledge as well as then being able to share with their students?

**SergioV:** omg

**DavinaP:** would this be good for teachers to know more about?

**SergioV:** greatly... yes

**SergioV:** I say this because even in elementary students are now hooked on facebook.

**DavinaP:** basically this is what the C3 baseline study revealed---even though the federal mandate will require "internet safety" content I am afraid the requirement will not cover all these topics which I think are really important for ALL citizens (including teachers) to know

**SergioV:** that is so true.

**DavinaP:** the hard line item is how to share PD on these topics with teachers who already have a full plate... ideas???

**SergioV:** And now with wifi... students have access everywhere almost...

**DavinaP:** Oh wifi--another interesting topic...

**DavinaP:** <http://www.wi-fiplanet.com/tutorials/article.php/3623061>

**SergioV:** wifi is like internet access right?

**DavinaP:** yes...Hackers have found wireless networks relatively easy to break into, and even use wireless technology to crack into wired networks. As a result, it's very important that enterprises define effective wireless security policies that guard against unauthorized access to important resources.[2]

**DavinaP:** interesting the training I am attending all this week is ethical hacking and wifi and security issues on all "gadgets" is the bigger issues (besides the social networking bots that have been going wild lately

**SergioV:** which means that we should never enter any personal information right?

**DavinaP:** personal information?

**SergioV:** credit card, passwords

**DavinaP:** correct--I know some safety groups tell kids not to give out any personal information--but I think that takes it a little far--who wouldn't give out their name? plus is probably somewhere in the social site or even email (for those of us who still do email)

**BJB2** looks at the clock on the wall

**BJB2:** The next cyber3 discussion will be February 2

**BJB2:** should be a very interesting discussion on cyberbullying, Sergio!

**SergioV:** soooo much information... time flies by so fast

**DavinaP:** but turning off your wireless access and encrypting files would be small things that could be very helpful and not difficult to do

**DavinaP:** oh yes..

**SergioV:** I am interested on getting an itouch because of wifi... now i have to think twice

**DavinaP:** Amy Ginther from ProjectNethics will be discussing cyberbullying and online harassment ----she will be sending me the title soon and I will forward it on...

**SergioV:** thank you sooo much!

**DavinaP:** she will discuss what cases have come her way (campus cases) and what legal actions can be taken and other strategies that folks might find helpful!

**DavinaP:** could you post that once I get it, BJ?

**DavinaP:** Sergio--if any questions please let me know--would be glad to send information or other resources you might find helpful

**DavinaP:** time went by fast---good evening all and thank you for attending!!

**SergioV:** I am still in space with all the information you just gave me.

**SergioV:** Good evening to you too... Have a great 2009!

**DavinaP:** excellent! good night

**BJB2:** thank goodness for transcripts, Sergio!

**BJB2** waves goodnight.

**SergioV:** yes I will definitely look into them