



# The CyberSentinel

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## Commissioner's Cache



Summer is here and I hope you are having as much fun as we are at the CyberPatriot Program Office! This month our staff will kick off our first ever AFA CyberCamps, beginning at Texas Woman's University in Denton. The participants will have the opportunity to learn cyber safety, cyber ethics, and skills to prepare them for career opportunities in the cybersecurity field.

Exhibition Round 4 is coming up July 21-30 to help you practice for and to recruit new competitors for the CyberPatriot VII season. Just a reminder: If you have not yet registered for CyberPatriot VII please make sure you do

so on our website. This season Coaches may coach up to five teams (team sizes are now limited to six competitors).

Finally, a big congratulations to Fairfax County Public Schools, Virginia, on their designation as the fifth CyberPatriot Center of Excellence! They have a great record of community support for CyberPatriot. That's it for now. Stay safe and stay tuned for CyberPatriot updates.

Bernie Skoch  
National Commissioner  
CyberPatriot Program  
Air Force Association



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## Program Office Bits

**CyberPatriot VII registration is open!**

Register today at

[www.uscyberpatriot.org](http://www.uscyberpatriot.org)

**Exhibition Round #4: July 21-30**

## Winning Submission: Competition Tier Names Contest

In last month's CyberSentinel, we asked our CyberPatriot participants to get creative in an effort to come up with tier names for the new and improved CyberPatriot competition structure.

We'd like to thank everyone for their submissions, especially winning contestant, Wyatt Stone. Wyatt, a CyberPatriot Mentor from Lewis and Clark High School in Spokane, Wash., came up with Platinum, Gold, and Silver as the three tier names.

Congratulations, Wyatt! As the contest winner, you will be awarded with an iPod Shuffle!



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### PLATINUM

30% of all teams

Rounds: State → Regional → National Finals

### GOLD

40% of all teams

Rounds: State → Regional

### SILVER

30% of all teams

Rounds: State → Regional



## First AFA CyberCamp to be Held at TWU in Mid-July



Preparations for the Air Force Association's inaugural CyberPatriot CyberCamp pilot are underway in Texas. Bernie Skoch, CyberPatriot National Commissioner, and staff will visit Texas Woman's University (TWU) July 14, 2014, to teach 20 high school student campers about online safety and cybersecurity.

The CyberCamp program was developed by the CyberPatriot National Youth Cyber Education Program to allow educational institutions and school districts to engage students in cyber education year round. Pending successful pilots at TWU and CyberPatriot Centers of Excellence later this summer, the CyberCamp program will be released to organizations nationwide in fall 2014. The CyberCamp kit consists of instruction modules, demonstration software, and competition software. During the hands-on camps, students will learn important skills in cybersecurity, protecting a network, identifying potential threats, making systems more secure, and protecting themselves on the Internet.

"CyberPatriot's National Youth Cyber Defense Competition has been enormously successful. Our competition has grown from a modest pilot program of eight teams of high school students--all in Florida--in 2009 to over 1,500 teams last season in all 50 states, Canada, and at US Department of Defense Schools in Europe and the Pacific," said Skoch. "After hearing from schools asking for more participation year round, in addition to our competition that begins each October and continues to March, we decided to develop the CyberCamp program."

"We could not have asked for a better host for our first CyberCamp pilot." Skoch went on to say. "Texas Woman's University's has not only continued to expand programs preparing its students for careers in science, technology, engineering, and mathematics, but through the CyberCamp will also expose local high school students to higher education opportunities in STEM fields."

This will be the first of several pilot CyberCamps held throughout the summer. Given the success of the pilots, CyberPatriot hopes to launch CyberCamps at the national level in the near future. Check back in the fall for more details!

## Issac Kim, North Hollywood HS Recognized at ASEE Event



### CONGRATULATIONS!

Issac Kim, on behalf of the entire Team Azure out of North Hollywood High School, Calif., was recognized by the American Society for Engineering Education (ASEE) for his accomplishments in CyberPatriot.

Issac attended ASEE's annual conference in Indianapolis, Ind., as a representative of the CyberPatriot VI National Championship team.

Click [here](#) to watch the award presentation video.



*Top: Issac, one of seven award recipients, poses for a group shot with the other winners. Bottom Left: The face of a proud award recipient! Bottom Right: Jose Gonzalez, CyberPatriot program manager for LAUSD's Beyond the Bell, congratulates Issac on his award. Photos courtesy of Beyond the Bell (@BTBLA)*

### The CyberSentinel

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## Spotlight on Northern Virginia



### Fairfax County Public Schools Becomes Fifth Center of Excellence



The CyberPatriot Program Office is pleased to announce Fairfax County Public Schools (FCPS) of Northern Virginia as its fifth CyberPatriot Center of Excellence.

The Center of Excellence designation is awarded to communities and institutions that provide leadership and support to further the educational experiences of their students through the CyberPatriot program. CyberPatriot established the Centers of Excellence program in 2011, and thus far, four other entities – Los Angeles Unified School District, the City of San Antonio, Spokane Public Schools, and Rose State College – have been recognized.

Fairfax County Public Schools is the largest public school system in Virginia and 11<sup>th</sup> largest in the United States. FCPS has approximately 185,000 students who attend the 200 elementary, middle, and high schools. FCPS became involved with CyberPatriot in 2011, and has since then been very active, promoting the competition through FCPS e-clips, websites, videos, social media pages, and local community newspapers.

Fairfax County Public Schools also has successfully developed a large network of mentors and business partners who play a critical role in expanding the program throughout the school district. This summer, FCPS will host a cybersecurity summer camp to help grow the program in the region and prepare students to compete in CyberPatriot VII.

"Fairfax County Public Schools has engaged many individuals in its community, and their unyielding support has not gone unnoticed as they have spurred great interest in their communities on tackling the challenges ahead in cyber," said Bernie Skoch, CyberPatriot National Commissioner. "Both Fairfax County Public Schools and the Air Force Association understand the answer to the challenges our nation faces in cyberspace lies in people—training today's youth to be the next generation of cyber experts. FCPS has developed innovative ways to sustain an environment for continued learning in cyber and technology. We congratulate FCPS on its designation as our fifth CyberPatriot Center of Excellence."

To learn more about CyberPatriot's Centers of Excellence, visit <http://www.uscyberpatriot.org/about/centers-of-excellence>.



**CyberPatriot V National Champions**  
*Chantilly Academy, coached by Joan Ozdogan*



**CyberPatriot VI National Finalists**  
*Marshall Academy, coached by Jason Simeon*



*Students at Marshall Academy prepare for the competition.*

#### Coaches' Corner

- **CyberPatriot VII Registration.** CyberPatriot VII Coach Registration is now open. Coaches must be registered and cleared before their competitors may register. Register online at [www.uscyberpatriot.org](http://www.uscyberpatriot.org).
- **Coach and Mentor of Year.** Award winners will be announced on Thursday, July 31, 2014.
- **Air Cards.** Coaches with air cards from the CP-VI season should return them immediately. Return shipping labels can be requested from the CyberPatriot Program Office.
- **Coaches' Meeting.** The next meetings are scheduled for the following dates:

4:30 PM EST on Monday, July 21

9:00 PM EST on Thursday, July 24

Los Angeles Unified School District 2011	City of San Antonio, Texas 2012	Spokane Public Schools (Wash.) 2012	Rose State College (Okla.) 2013

## Human Error Is the Major Cause of Cyber Attacks

By Mike Byon



Although numerous cybersecurity breaches have occurred as a result of thoroughly planned attacks, such as through the implementation of viruses or denial of service attacks, the majority of cybersecurity incidents are a result of human error.

IBM stated that as much as 95 percent of incidents reported are because of human carelessness. In the United States, a significant amount of security breaches are aimed toward financial gain. Consequently, millions of credit card numbers have been seized by hackers, causing major retailers hundreds of millions of dollars in direct costs. Duo Security Inc. reported that common human errors that lead to security breaches included system misconfiguration, poor patch management, lost computer or mobile device, disclosure of sensitive information, and the opening of infected attachments or unsafe URLs.

The good news, however, is that since the majority of breaches have been due to failure to take appropriate cybersecurity preventative actions, the number of incidents can be controlled if proper security measures are taken. One way to harden the security of one's computer system is to enable a second layer of authentication when accessing the system. For example, Duo Security suggests that one should use a different channel than the first source of authentication, such as using a mobile app or smartphone to protect accounts from unauthorized remote access. Simply stated, reducing human error should be the first step that users take in order to ensure cybersecurity of their systems.



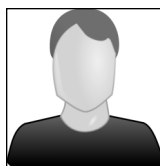
Source: <https://www.duosecurity.com/>

### Coach and Mentor of the Year

Thank you to everyone who submitted nominations for CP-VI Coach and/or Mentor of the Year!



CP-VI Coach and Mentor of the Year Award winners will be announced on Thursday, July 31, 2014.



### PopQuiz: How CyberSmart Are You?

1. Who is most likely to launch a successful cyber attack against classified network and critical infrastructure?

- A. Russian Hackers
- B. Chinese Hackers
- C. Nation-States
- D. Cybersecurity professionals

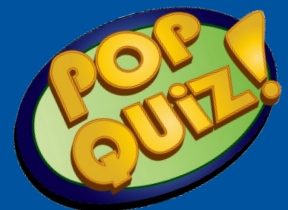
2. Which industry suffers the most data breaches?

- A. Health Care
- B. Financial
- C. Restaurants
- D. Retail

3. How many credit card numbers were stolen in the largest known cyber theft?

- A. 25 million
- B. 130 million
- C. 185 million
- D. 210 million

Source: CIO.com



Answers: 1) Nation-States; they have the discipline, resources, and commitment needed for a successful attack. 2) Retail; POS malware is growing and smaller retailers can't always afford the necessary security tools. 3) 130 million

### This Month in Cyber History

July 26, 1996 — AT&T Corp. and Microsoft Corp. (now both CyberPatriot sponsors) announced an alliance to promote Microsoft's World Wide Web browser, Internet Explorer, in a move designed to allow both giants to gain easier entrance into the burgeoning Internet business sphere. Under the deal, AT&T and Microsoft agreed to promote and distribute jointly Internet Explorer and AT&T's Internet service. The deal represented AT&T's move to expand its long-distance telephone service and another effort by Microsoft to offset its late entry into online computing software, a misstep that allowed Netscape Communications Corp. to dominate browser technology.

For more information go to:

<http://www.computerhistory.org/tdih/July/26>



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