



ISSUE | JULY
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THE CYBERSENTINEL

The official newsletter of CyberPatriot—AFA's National Youth Cyber Education Program

COMMISSIONER'S CACHE



I hope you are enjoying your summer. By now it is in full swing and so is the CyberPatriot Program Office. We are busy delivering on the fun of AFA CyberCamps and, of course, preparing for the next exciting competition season!

After a couple of hiccups, the Elementary School Cyber Education Initiative is coming along very well and will soon be ready. Oh, there's another cool development! Our training materials this year will include short videos to help you learn about navigating Windows and Linux security settings. You should see them soon.

Our Presenting Sponsor, Northrop Grumman, has worked with us to release the latest CyberPatriot video, which debuted last month. It highlights several of last year's national finalists and looks terrific. Watch our Facebook page and our website for details. Be sure to share it with your friends!

And of course our many other generous sponsors are busy, too, developing specific competition challenges and supporting CyberPatriot in so many ways. We can't thank them enough!

As always, thanks to all of our Coaches and Mentors for volunteering their time. The news each day reminds us of why what you do in CyberPatriot is so important for the future of our nation.

Bernard K. Skoch | National Commissioner



DATES TO KNOW

JULY 14-24	Exhibition Round #4
AUG. 11-21	Exhibition Round #5
OCT. 9	Team Creation Deadline
NOV. 6	Competitor Reg. Deadline

CyberPatriot VII Coach and Mentor of the Year Winners Selected!

Learn more about the winners on p. 3.

#CyberPatriotAroundTheWorld

Traveling this summer? We want to see where our CyberPatriots have been!

Share your travels with us by sending a photo of you and your CyberPatriot coin in a cool location to info@uscyberpatriot.org. Get creative enough and you just might win a prize...



AFA's Mary Paltzer
Moscow, Russia

SUMMER IS HERE AND CYBERPATRIOT IS IN FULL SWING!

There is no summer vacation for CyberPatriot. From the monthly Exhibition Rounds to the AFA CyberCamps, CyberPatriot activities abound.

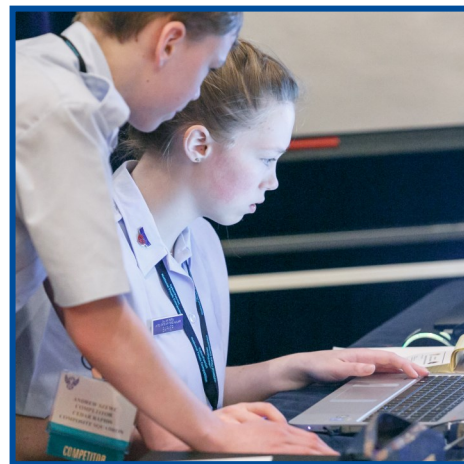
More than 1,000 teams have been registered by their Coaches for CyberPatriot VIII! Only Coaches need to be registered for a team to be registered. Registered Coaches will have access to training materials not available to the general public. Soon, short videos will be included in the training materials. Registered teams may participate in the monthly Exhibition Rounds.

The Exhibition Rounds have been running well. Over 250 teams participated in the June Exhibition Round. Teams are using the Exhibition Rounds as recruiting opportunities while others are using them as training opportunities.

There are no time restrictions on images during the round. Teams need only a registered Coach to participate. Coaches may register now to participate in the July Exhibition Round. Competitors do not have to be registered. See the schedule on p. 2 (Coaches' Corner).

AFA CyberCamps are in session, with 22 standard AFA CyberCamps ordered by schools and other organizations. Five of the camps were completed in June, and five more are scheduled for July. The weeklong curriculum focuses on students new to cybersecurity, beginning with an ethics instruction module and typically culminating with a mini-CyberPatriot competition. The CyberPatriot staff will teach camps at the Facebook Campus in Menlo Park, Calif., and the Texas Woman's University in Denton, Texas.

Coach registration ends October 9, 2015. Register now to take advantage of training opportunities for the competition season.



FEDERAL BREACH — 18 MILLION AFFECTED

According to a June 23, 2015, article on the CBSnews.com website, more than 18 million current and former federal employees had their private information stolen.

CBSnews.com went on to say: "The [Chinese are the leading suspects](#)," and "Kathy Archuleta, director of the Office of Personnel Management, told a Senate hearing that no one in the US government is responsible for the data breach — despite seven separate reports, from as far back as 2009, warning the agency of massive cyber vulnerabilities."

The *Washington Post* reported on June 12, 2015, that there were two breaches. A different Office of Personnel Management system was discovered compromised, which led to the discovery of the second breach.

A watchdog report, according to CBSnews.com, said a new system in place to detect these attacks is insufficient. The report read in part, "There is a high risk that this project will fail."

The depth of the attack was reported by CBS.com said, "Hackers stole personal information to build surveillance files on possible targets for blackmail and threats. One example: Intelligence agents posted overseas."

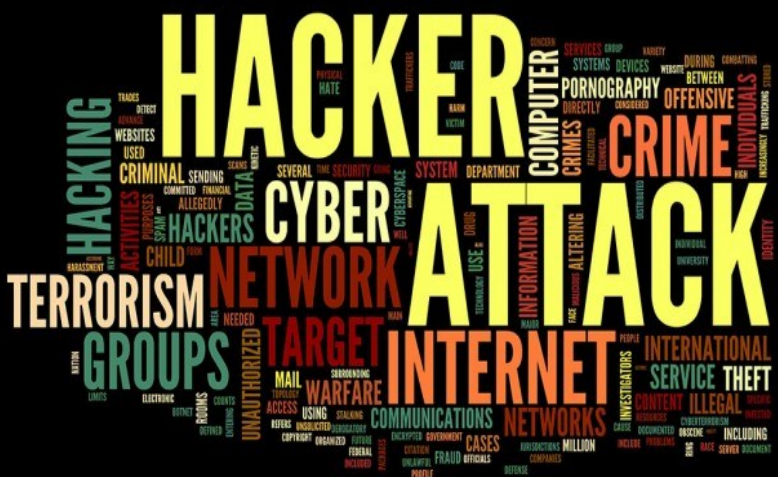
"They've got a full network," said Sean Henry, a former FBI assistant director. "They know who their friends and relatives are. They know the towns they grew up in. They know the names of their pets. They oftentimes know the deepest, darkest secrets."

"The breach impacts current, former, and prospective federal employees and any family member or friend who showed up on a security clearance form."

"You find a lot of information out on people that they don't necessarily want their friends to know," said Henry. "They certainly don't want their enemies to know."

At least three senators and the White House press secretary have received notices that their personal information may have been compromised, according to CBSnews.com. CBS News has also learned that people who haven't worked for the federal government for 15 years have received similar notices.

Courtesy of CBS Interactive Inc. and washingtonpost.com



PARTNER PROFILE: NPOWER

We are pleased to announce a new partnership with NPower and their tech skills volunteer program, The Community Corps. The partnership will focus on advancing STEM education and providing technology and professional skills training to underserved youth across a nationwide network of schools, nonprofits, and community members.

npower The NPower Community Corps is a skills-based volunteering program connecting technology professionals with high-impact nonprofits and innovative education partners via online programs. Through the new partnership, NPower Community Corps tech volunteers will participate in CyberPatriot's Mentor program, providing valuable career field insight to student Competitors, and helping middle and high school teams across the US develop the technical know-how they need to excel in the competition.



Coaches' Corner

- **Online Coaches and Mentors Meetings.** The Coaches Meetings are a great time to ask any questions about CP-VIII! The format has changed to an interactive chat session until later in the season. Information on joining these meetings will be emailed to Coaches a week before the meeting. Additional questions can be directed to info@uscyberpatriot.org.

Next Meeting: July 14, 9 a.m. - 5 p.m. ET

- **Exhibition Rounds.** Exhibition Rounds will be held for 10 days each month from April to August. The purpose of the Exhibition Rounds is for Coaches to recruit team members and orient potential CyberPatriot supporters. Only registered Coaches may participate in the Exhibition Rounds. Competitors do not have to be registered. Coaches must control the images as they would in Competition Rounds.

- July Exhibition Round: July 14-24
- August Exhibition Round: Aug. 11-21

- **CyberPatriot Rules Advisory Group (CRAG).** Coaches and Mentors interested in reviewing the CyberPatriot Rules Book and providing input on rules and processes may volunteer for the CRAG at: cpoc@uscyberpatriot.org.

SPOTLIGHT: CYBERPATRIOT VII COACH AND MENTOR OF THE YEAR

The award might be called Coach of the Year, but for Chris Sutton it's been several years in the making. For the past four years the math and computer science teacher at Grissom High School in Huntsville, Ala., and the newest CyberPatriot Coach of the Year, has proved that she is deserving of such a title.



A quick glance at her team's achievements says a lot about the effectiveness of her teaching style. Not only did Mrs. Sutton's team qualify for the National Finals competition two years in a row, they came home with trophies each time: second place in 2014 and first place in 2015.

Yes, it may help that she's had the same group of kids from the time they were freshmen, but an effective teaching method must also be part of the equation. While her students were freshmen and sophomores, Mrs. Sutton focused on lab-based exercises that would give them a thorough understanding of the technical concepts. As her students became upperclassmen, Mrs. Sutton focused on having her team practice operational leadership: planning, developing, and executing projects that demonstrate technical knowledge, along with creating reports and presentations to practice softer skills needed in industry. With four team members



now working for Dynetics as malware researchers, the results speak for themselves.

Ask any of her students, and they'll tell you that Mrs. Sutton's selflessness is beyond reproach. James Brahm, senior captain of the champion "CyberSloths" team said, "I attribute much of my success in high school and the opportunity to attend the [Air Force] Academy to two major influences: CyberPatriot and Mrs. Sutton." The rest of her students agree, stating, "She has enabled us to be successful and has always been there for us in times of triumph or tribulation. We are so grateful for everything Mrs. Sutton has brought to our lives."

Mrs. Sutton has always put her team first. She put her own personal needs on hold until National Finals were over, so that her students could compete at their full potential.



Teachers and coaches like Chris Sutton who make students look back on their high school experiences years down the road and smile. Besides, a Coach who lets her students call themselves CyberSloths and take selfies on stage is certainly one to remember.



If you're looking for a qualified technical mentor, Evan Dygert's résumé is nothing short of impressive. He has active SANS certifications in GSEC, GCIA, GCIH, GCWN, GCFA, GREM, GAWN, GSSP-JAVA, GPEN, GSE, GWAPT, GCFE, GXPEN. He has achieved the title of SANS Cyber Guardian for both Blue and Red Teams. He has a bachelor's degree in computer science, an M.B.A., and is currently pursuing his doctorate. On top of all that, he is also an expert witness for computer forensics and serves as an expert consultant for intellectual property litigation cases.

But it's not Mr. Dygert's résumé that earned him the CyberPatriot VII Mentor of the Year award. As a mentor of the two-time national finalist Winter Springs High School All Service Division team, there's no doubt that Mr. Dygert is an effective teacher. He has a knack for explaining complex topics in ways that the students are able to comprehend. He makes himself available through email at all hours of the day, as well as in person at least twice a week. Mr. Dygert keeps his students well equipped to learn, sending endless streams of links to online training materials, sharing alerts for discounts on online courses, and providing software that helps the students improve their understanding of technical concepts.

Looking beyond Mr. Dygert's credentials and teaching ability, you'll find a man who mentors in more than just a technical manner. During a pep talk at the National Finals Competition, he recalled a moving story regarding his experience as a high school student, having a teacher mentor him in computers, creating opportunities for him to pursue a rewarding career. He said to his team, "I want to make sure you have this same opportunity, and all I ask is that when you're successful in your careers, you pay it back by mentoring students yourselves."

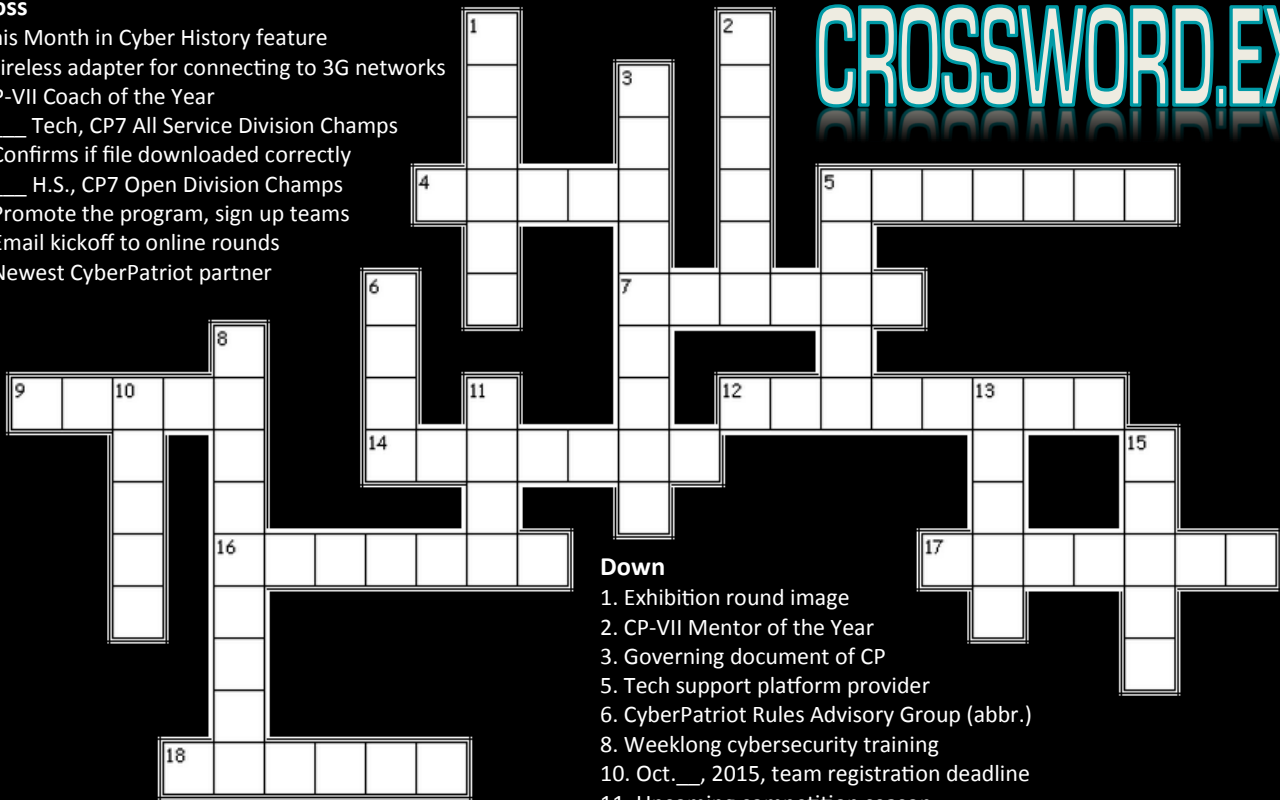


He's the man behind the scenes making it all work. Mr. Dygert is not only turning his team into young cybersecurity professionals, he's also helping them become model citizens. Thanks to Evan Dygert, the cyber community will likely have many more mentors just like him.



Across

4. This Month in Cyber History feature
5. Wireless adapter for connecting to 3G networks
7. CP-VII Coach of the Year
9. ____ Tech, CP7 All Service Division Champs
12. Confirms if file downloaded correctly
14. ____ H.S., CP7 Open Division Champs
16. Promote the program, sign up teams
17. Email kickoff to online rounds
18. Newest CyberPatriot partner



Down

1. Exhibition round image
2. CP-VII Mentor of the Year
3. Governing document of CP
5. Tech support platform provider
6. CyberPatriot Rules Advisory Group (abbr.)
8. Weeklong cybersecurity training
10. Oct. __, 2015, team registration deadline
11. Upcoming competition season
13. Nov. __, 2015, competitor registration deadline
15. \$5 CyberPatriot swag. Get yours today!

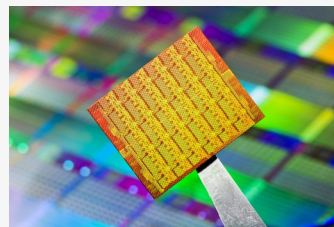
PATCHES FOR SALE!

The official CyberPatriot patch is still available for purchase.

Click [here](#) for details.



THIS MONTH IN CYBER HISTORY



July 18, 1968— On this day in cyber history, Robert Noyce, Andy Grove, and Gordon Moore incorporated Intel, a company they built on production of the micro-processor. The component that has allowed computers

to increase in speed and decrease in size, the microprocessor also built Intel, whose Pentium processors now power most IBM-compatible personal computers.

Moore is famous for Moore's Law, which dictates that every 18 months, microprocessors double in speed and decrease in size by half.

For more information, visit:

<http://www.computerhistory.org/t dih/July/18/>

**SUMMER IS
RECRUITMENT SEASON**

Gearing up for CyberPatriot VIII?
We can help! Request recruitment brochures and giveaways today.
[Click here.](#)



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