



ISSUE
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2019

THE CYBERSENTINEL

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

COMMISSIONER'S CACHE



When we initiated AFA CyberCamps, we didn't know what kind of reception to expect. Would ANYONE sign up? Would we bomb? We started with a modest three-location pilot program and hoped for the best. Well, the only thing we can say at this point is OMG! This summer, just a few summers into this, will bring nearly 300 AFA CyberCamp locations around the nation, and we couldn't be more proud. To our camp hosts and coordinators, THANK YOU! We (literally) could not do this without you, and we know it. Please give us your candid feedback this season so we can keep getting better.

You can read elsewhere in this issue of the CyberSentinel about new CyberPatriot CyberPartners Webfoot and Zapata Technology. Please join us in thanking them for joining us as we strive to entice even more young men and young women to pursue education and careers in cybersecurity and STEM.

Also be sure to read about Mr. Matthew Horner, a New Jersey teacher (and wonderful CyberPatriot volunteer) who was recently recognized as teacher of the year by his local AFA Chapter. How cool is that!

I hope you are all resting up for CP-XII. I promise you it will be a hugely challenging season, thanks to the hard work of our brilliant CyberPatriot technical team led by Mr. Frank Zaborowski. They work hard every day to make sure CyberPatriot remains THE best cyber education program in the world.

And I can't help but again express our great thanks to our generous sponsors, led by Northrop Grumman Foundation. Without their support, none of this would be possible. Until next month...

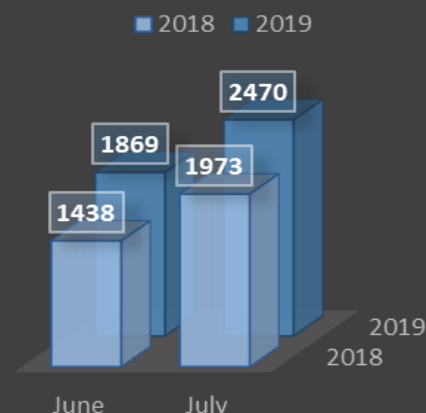
Bernard K. Skoch | National Commissioner



DATES TO KNOW

JULY 1	Last day for discounted CP-XII Registration
JULY 17	Start of Exhibition Round 2
AUG. 16	End of Exhibition Round 2
SEPT. 5	Start of CP-XII Training Round

TEAM COUNT COMPARISON



CYBERPATRIOT XII REGISTRATION — KEEP IT GOING!!



Registration for the annual CyberPatriot competition is open until October 2nd! Currently there are over 2,400 teams registered for CP-XII, and that number is increasing on a daily basis. In fact, registration is 500 teams above where it was at this time last year. Let's set the goal high and aim for 7,000 teams this season!

The national competition provides a once in a lifetime opportunity for middle-high school students to advance their cybersecurity skills and establish networking opportunities with industry leaders.

CP-XII Registration Fees

High School: \$205/team*
Middle School: \$165/team*
JROTC/CAP/NSCC: Waived

*Fee waivers can be requested by
Title I schools and all-girl teams.

JULY
19

CYBERPATRIOT RECEIVES SUPPORT FROM TWO NEW CYBERPARTNERS

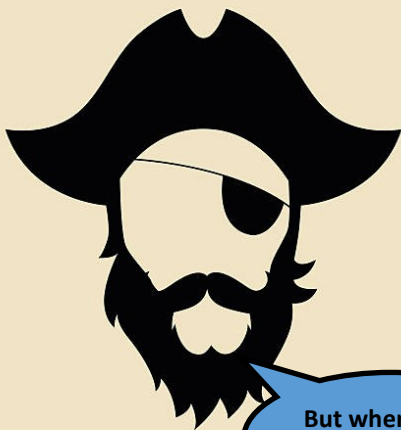


A message from Zapata Technology:

Zapata Technology, Inc is proud to support the CyberPatriot program in its commitment to engaging and educating the next generation of cybersecurity professionals who work to protect our citizens on those invisible battlefields where we are at risk. Our company is committed to saving lives and this program demonstrates in its range of educational opportunities that same commitment. Our support for your program which provides a valuable outlet and channel for energies to be directed toward a positive end is wholehearted. We are also proud that our neighbor and collaborator in our efforts, Ft. Gordon (GA), is also such an effective collaborator for your program and that it was recently named a CyberPatriot Center of Excellence. We are happy to contribute to the success of your program.



CyberPatriot is pleased to announce that Webroot Inc. has joined on as a CyberPartner! Webroot Inc. is a company that provides services for internet security to individual consumers and businesses. Webroot Inc. is one of the Nation's top web. security providers. Webroot was distinguished in 2012 by AV-Comparatives in its anti-phishing test, receiving its highest award, and for having the best PCMark score amongst 20 similar products. Webroot has been awarded 19 times with the PC magazine Editor's Choice and Security Product of the Year by PC Magazine, its highest award. Webroot Inc. continues to be a leader in internet security and works towards protecting businesses and consumers from cyber threats and combating complex cybersecurity challenges while anticipating how to extend the value of threat identification, prediction, and remediation to the connected world.



But where can I
find an iPatch?

Keep Patching!

June 2019 was another very busy month for security update releases. Microsoft released updates to patch 22 critical rated vulnerabilities, Intel released 11 fixes, and there were also several critical security updates for Apple Airport, Adobe Flash Player, Cisco devices, Cisco Data Centre Network Manager, Dell SupportAssist, Google Chrome, Firefox and Apache. One further standout vulnerability was the "SACK Panic" TCP Linux and FreeBSD kernel vulnerability, uncovered by Netflix researchers, however, Microsoft released a security advisory in regards to TCP SACK Panic by the end of the month.

The National Security Agency (NSA) backed up UK National Cyber Security Centre (NCSC) and Microsoft's continuing strong recommendations for everyone to apply the latest security updates to all versions of Microsoft Windows, including the unsupported XP, Vista and Windows 2003 Server, to protect against the supercritical CVE-2019-0708 "BlueKeep" vulnerability.

BlueKeep – was first reported in May, and allows attackers to connect to Remote Desktop Protocol services (RDP) and issue commands which could steal or modify data, install malware and conduct other malicious activities.

Source: <https://securityboulevard.com>

CYBER EDUCATION LITERATURE SERIES

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your copy on
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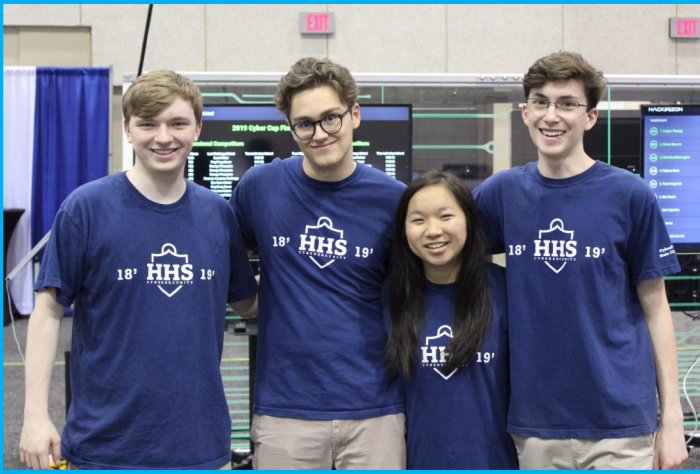
Sarah the Cyber Hero



Be on the lookout for more involvement with CyberPatriot's newest program, CyberGenerations—the senior citizens' cyber safety initiative. Feedback is being collected from pilot sites across the country, and we hope to launch a new and improved program in the fall.



SPOTLIGHT: PROGRAM PARTICIPANT RECOGNITION



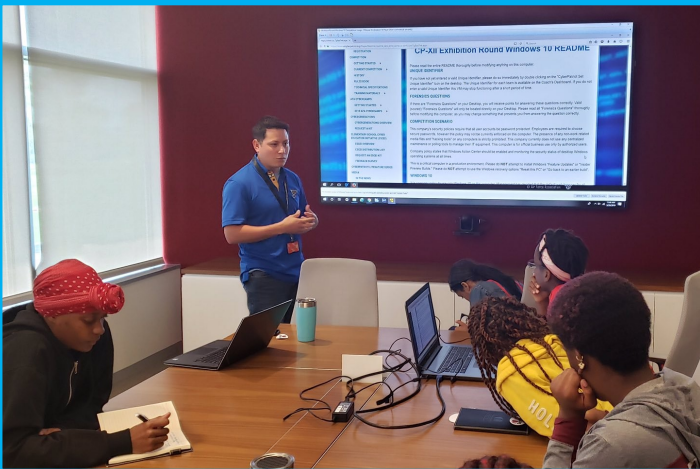
CyberPatriot is proud to see when students who participate in our program continue their passion for cybersecurity elsewhere. The students featured above are from the HHS-Cyber team. The students participated in the National Cyber Summit's Cyber Cup Challenge and in the CyberPatriot National competition. These four students will be working at companies that relate to the cyber field in their local communities over the summer. Jim Morse the Huntsville High School Cyber Security instructor put it like this, "I feel their employment is a direct result of their participation in the Huntsville High School's Cyber courses and the CyberPatriot program." CyberPatriot is glad to hear that our program has helped inspire these students to pursue a career in cybersecurity which goes hand-in-hand with our mission.

Source: Jim Morse, CyberPatriot Coach



Congratulations to Matthew Horner, a teacher at Randolph High School in Providence, New Jersey, for being awarded the Air Force Association Chapter 195 Teacher of the Year Award! Mr. Horner helped CyberPatriot advance its mission of inspiring students to pursue careers in cybersecurity and other STEM fields by coaching four CyberPatriot teams, leading the school's computer club, and improving the school's computer science program. It is due to individual efforts like these that our CyberPatriot program continues to grow and be so successful in inspiring students to be pioneers in cybersecurity. We want to extend our thanks to Mr. Horner and others like him who put in the work behind the scenes everyday to make our mission happen here at CyberPatriot!

Source: <https://patch.com/new-jersey/newprovidence/>



The Jennings Senior High School CyberPatriot team is already prepping for CyberPatriot XII, thanks to the Mastercard mentors in St. Louis, MO. The two groups have been joining forces with hopes of making the semifinal round this upcoming season. Mastercard has been working with students from Jennings Senior High School for three years, and the students have been getting better and better each year.

Source: Fox 2 Now (St. Louis)



Thank you to the engaged students and their parents as well as instructor Scott Reu from Cisco's Meraki team! Cisco Meraki is a cloud-managed IT company headquartered in San Francisco, California. Their solutions include wireless, switching, security, enterprise mobility management, communications, and security cameras, all centrally managed from the web. Thank you, Cisco!

Source: Cynthia Temesi, Education Advisor, Cisco

WHEN CYBER THREATS BECOME HEALTH RISKS



Cybersecurity Risk Prompts Recall of Medtronic Insulin Pumps

At least 4,000 U.S. patients who are using Medtronic MiniMed insulin pumps are vulnerable to potential hacking. The company is working with distributors to identify additional patients who may be using the pumps that are now being recalled due to potential cybersecurity risks, according to an FDA notice issued Friday.

The agency said it is concerned that, due to cybersecurity vulnerabilities identified in the device, a hacker could potentially connect wirelessly to a nearby MiniMed insulin pump and change the pump's settings. This could allow a person to over deliver insulin to the patient, leading to low blood sugar, or to stop insulin delivery, leading to high blood sugar and a buildup of acids in the blood.

FDA said it is not currently aware of any confirmed reports of patient harm related to these risks, but because the company cannot update the MiniMed 508 and MiniMed Paradigm pump models to address the vulnerabilities, the devices are

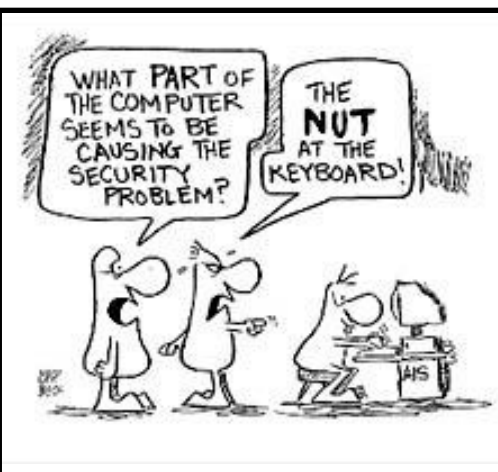
being recalled. The agency said patients using these models should replace the devices with models that are better equipped to protect them from hacking. Medtronic is providing patients with alternative insulin pumps that have enhanced built-in cybersecurity capabilities.

Source: <https://www.mddionline.com/cybersecurity-risk-prompts-recall-medtronic-insulin-pumps>

Summer is here, but that's no reason to get lazy with monitoring emails. Phishing attacks don't take a summer vacation!

Did you know that about one-third of phishing scams are aimed at stealing your money? Phishing scams are a tactic cyber criminals use to obtain money or information where they pose as a reputable source such as a company like Paypal, typically by email. However, phishing can also occur on social media sites and other pop-ups and are not unique to emails, which is a common misconception. Many phishing scams involve cyber criminals posing as large online banking or transaction services like PayPal and Amazon.

Bottom line: always be wary of what you are clicking on and don't follow links or pop-ups from senders you are not familiar with.



THIS MONTH IN CYBER HISTORY



July 2, 1953 — In July of 1953, IBM announced the Model 650 computer. IBM's model 650 was the world's first mass-produced computer, with nearly 2,000 units being produced. The computer stored up to 20,000 digits or roughly 2000 words at a time on a rotating magnetic disk.

The Model 650 was used for many purposes across a variety of different industries including but not limited to accounting, banking, and even for making calculations in engineering applications.

For more information, visit: <http://www.computerhistory.org>

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