



ISSUE | DEC
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THE CYBERSENTINEL

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

COMMISSIONER'S CACHE



I remember vividly my first technology book, the big picture book "Space Stations" by Willy Ley. It's hard to measure its long term effect, but it's inarguable that it shaped my desire to later become a self-avowed (and unapologetic) geek. On reflection, I learned it's never too early to start someone thinking about STEM. And so it is with CyberPatriot's newest thrust, the children's storybook "Sarah the Cyber Hero." It's the brilliant work of our very own Emily Rauer and illustrator Michael Rau. You can read about it elsewhere in this month's CyberSentinel, and you can order it on Amazon and other online book sellers. It's a great way to develop a (very) young person's interest in cyber security and STEM (very) early. And who knows, he or she might start down the path to geekdom!

By the time you read this, some of you will have received your CP-X competitor kits. You'll find nifty challenge coins, pins, and the coolest t-shirt I've seen in a long while (designed by our very own and absolutely amazing Rebecca Dalton). I hope you enjoy them and wear them everywhere. Send us a pic of your team decked out in "CP-X Wear by Dalton."

We daily track appearances of the term "CyberPatriot" in media outlets nationwide, and some of what we learn is stunning. (Try an internet news search for "CyberPatriot" and you'll see what I mean.) Our competitors and alumni are earning scholarships, admission to prestigious universities, and one was recently named a Rhodes Scholar (!). We are proud of you.

And we are thankful for your being part of AFA's National Youth Cyber Education Program. In partnership with volunteers, coaches, mentors, parents, educators and administrators, you are making a big difference. And none of this would be possible without our generous sponsors, led by Northrop Grumman Foundation. Thank you for meeting a critical national need. And Happy Holidays!

Bernard K. Skoch | National Commissioner



DATES TO KNOW

DEC. 8-10	CP-X Round 2
DEC. 15	Round 2 Backup Date (Emergencies Only)
DEC. 23	AFA Closed for Holidays
JAN. 2	AFA Reopens
JAN. 19-21	CP-X State Round



CYBER EDUCATION LITERATURE SERIES

(See Spotlight on page 3)

ROUND 1 SETS RECORD, NEW FEATURES USED; ROUND 2 STARTS DEC. 8

CyberPatriot X began with excitement on Nov. 3. In front of a gathering of CyberPatriot supporters at the Air Force Association building, Diane Miller of Northrop Grumman Corporation initiated the competition server and kicked off the CyberPatriot X competition. Joining Diane were representatives from CyberPatriot sponsors Cisco and AT&T.

Team Cyber Guardians of the Advanced Technology Center at Virginia Beach, Virginia became the first team to compete officially this season (page 4). By the end of the round, a

record number of almost 4,000 teams participated.

Round 1 had a record total of 189 perfect image scores of 200 points for all divisions. Just over 50 Open and All Service Division teams had perfect overall scores in both images and the Cisco Networking Challenge.

New Image Features. For the first time, two new image features were used in the competition. The 12 character Unique Identifier helped reduce bad logins by at least 30%. Its new format made it easier for teams to check for accu-

racy. The Stop Scoring Button option contributed to the reduced number of final score corrections caused by missing points. Some teams received errors when clicking the button which were caused by their security settings. For more, see Round 1 Lessons Learned on page 4.

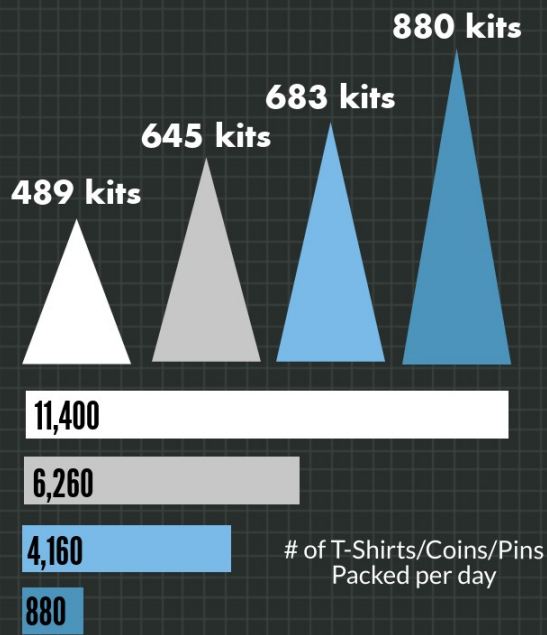
All Teams Advance to Round 2. No matter their performance or participation in Round 1, all teams advance to Round 2, on Dec. 8, and then the State Round. High school teams start with a clean slate in the State Round with no previous score of participation counting.

DEC
17

The CyberPatriot Program Office presents:
PARTICIPANT KITS BY THE NUMBERS



Packed Per Day



19 ***PALLETS OF T-SHIRTS***

The t-shirt ordering process for participant kits begins well before the season:

AUG: Design drafts and approval
SEPT: Estimate of quantity and sizes
OCT: Production begins
NOV: Production complete

Fun fact: CyberPatriot ordered so many Gildan medium-sized, sapphire blue t-shirts that we depleted the whole stock in the USA.

4 ***WONDERFUL PACKERS***
who deserve a HUGE thank you for the time spent packing all 3,000+ kits for CyberPatriot participants.

HOW MUCH DOES IT WEIGH?



25,000

1,562 lbs

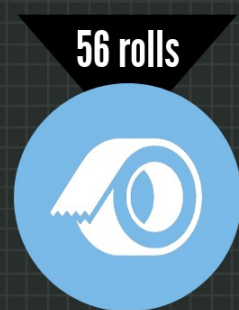
If only CP-X coins were an accepted form of currency...



25,000

9,500 lbs

Why join a gym when you can lift boxes of t-shirts all day?



56 rolls

45 lbs

The packing tape alone is the same weight as a medium-sized dog!

SPOTLIGHT: CYBER EDUCATION LITERATURE SERIES

CyberPatriot is proud to announce its first children's book,

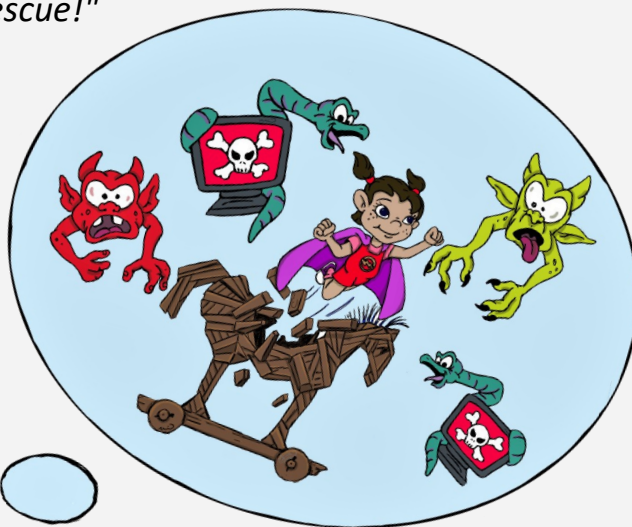
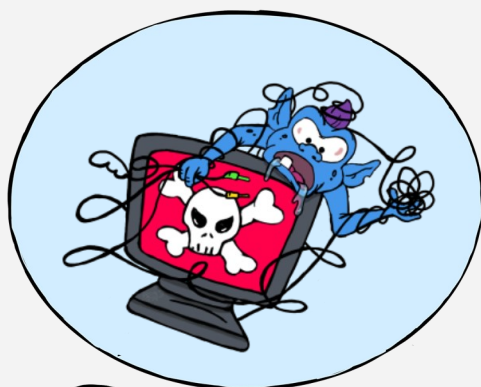
Sarah the Cyber Hero

Sarah the Cyber Hero is the exciting story of a little girl named Sarah that longs to earn her superhero cape. To earn her cape she must save the day but her older brother, Andy, swoops in every time. One fateful day, Andy downloads a malware virus to the family's computer and it infects the whole town! Sarah's cyber safety class at school has taught her important cybersecurity skills but will they be enough for her to finally save the day? Children will love the adventure as Sarah puts her cyber skills to the test showing the importance of cyber safety for everyone.

Published by the Air Force Association and written by Emily Rauer of the CyberPatriot Program Office, Sarah the Cyber Hero addresses the need for cybersecurity related books for elementary-aged students. The book is available in soft cover or as an instant download e-book with engaging, colorful illustrations and CyberPatriot "Easter eggs" woven into the story.

Sarah the Cyber Hero is available now for purchase for the upcoming holiday season. Give the gift of cyber safety and spread the word to help us get this children's book into the hands of friends, family and loved ones! Please visit Bookbaby, Amazon, or Barnes and Noble (links below) to purchase your personal copy and support CyberPatriot as we extend our mission to help prepare children to protect themselves on the Internet.

"When Big Brother plays, it's Little Sister to the rescue!"



**BUY YOUR
BOOK
TODAY!**

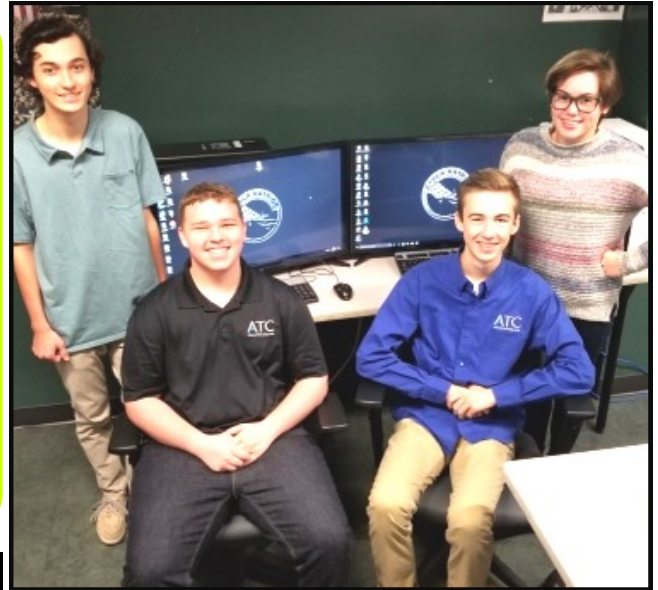
BARNES & NOBLE

Available at
amazon

bookbaby

Round 1 Lessons Learned

- If the Stop Scoring Button does not work, then suspend or power off the image.
- Do not wait until the last minute to close an image. Scores received after six-hours are possible overtime penalties. The scoring system checks to the second.
- Copy and secure Coach's Dashboard webpage. It will help prevent team mix-ups.
- Packet Tracer filenames must contain the team's team number for attribution.
- Teams from the same schools/organizations or different schools/organizations may not share competition information. Doing so is grounds for disqualification from CP-X.



The first team to officially complete in CyberPatriot X - Team Cyber Guardians from the Advanced Technology Center of Virginia Beach, VA., coached by John Nelson. Team Captain Leo Oates said, "It was our first time competing and we all enjoyed it. We discovered new ways to improve upon and are looking forward to the next round."

FORMER CYBERPATRIOT CHAMPION WINS 2018 RHODES SCHOLARSHIP



The Rhodes Trust announced Saturday that Matthew Rogers is among the 32 students selected to receive a scholarship to study at the University of Oxford in the United Kingdom. He is a software engineering student at Auburn University.

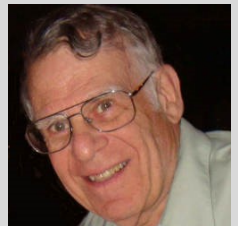
Rogers will study cyber security at Oxford next year. He is a Huntsville, Alabama, native and is Auburn University's fifth student to win the honor and the first since 2009.

Rogers is a national champion in the CyberPatriot competition and recently interned at the NSA where he focused on cyber operations. He co-founded the Ethical Hacking Club in order to raise awareness of cyber security issues.

Congratulations, Matthew! You've made the CyberPatriot Program Office very proud!

THIS MONTH IN CYBER HISTORY

Dec. 5, 1965 — Richard L. Wexelblat became the first candidate in a computer science program to complete a doctoral dissertation on December 5, 1965. While many doctorate candidates had previously performed computer related research, Wexelblat's diploma, presented by the Moore School of Electrical Engineering at the University of Pennsylvania, was the first to carry the designation "computer science." Andy van Dam would become the second person to share this distinction, when he completed his computer science dissertation in January 1966. Wexelblat went on to write "History of Programming Languages," published by Academic Press in 1981. He is said to be behind the "Wexelblat scheduling algorithm" – the all too well known "Choose two of: good, fast, cheap" saying used in trying to explain why one design can't be all things to everyone. Active in computer science fields until 2011, Wexelblat is now an artisan woodturner.



For more information, visit:

<http://www.computerhistory.org/t dih/December/5/>

Coaches' Corner

- **Use of Competition Backup Dates.** Backup dates are used only for extreme weather or other widespread emergencies. Only Coaches may request backup dates through the appeals process. Circumstances that are not grounds for competing on the backup dates include, but are not limited to, those listed in paragraph 4015 of the CP-X Rules Book.

Presented by:

NORTHROP GRUMMAN
Foundation

Cyber Diamond



Cyber Gold



Cyber Silver

