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The CyberSentinel

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

Commissioner's Cache

Spring is here, which means the CyberPatriot VIII National Finals Competition is almost here too. What an amazing season of on-line competition it's been! As our competition has (necessarily) grown more complex, teams have ably risen to the challenge of finding tougher vulnerabilities. In many cases we are seeing innovative solutions by innovative teams. And as we strive to inspire even more students to pursue education and careers in STEM, that's EXACTLY what we would hope to see!

And, speaking of the National Finals Competition, we have announced the 28 National Finalist teams! Starting with over 3,300 teams, the math that produced them is fascinating: 0.83% of our original registering teams will have qualified for the Finals. Super Bowl 50 brought two great teams together from a field of 32, or 6.25% of NFL teams. It's not at all a stretch to say the odds of an NFL team reaching the Super Bowl are about eight times that of a CyberPatriot team reaching this year's National Finals Competition! This year's event promises to be even more exciting than last year's, and we are looking forward to a brand-new venue: The Hyatt Regency Hotel in Baltimore's spiffy "Inner Harbor." We wish every one of you could be there!

And as always, our deepest thanks to our Presenting Sponsor the Northrop Grumman Foundation and our other generous sponsors. They—and YOU—make CyberPatriot as good as it is. Thank you!

Bernard K. Skoch | National Commissioner

Dates to Know

Mid-March	CyberCamp Applications
APR. 1	CP-IX Registration Opens
APR. 10-14	National Finals Competition (Baltimore, Md.)

THE RESULTS ARE IN!

CYBERPATRIOT VIII NATIONAL FINALIST TEAMS

(SEE PAGE 3)

2016 AFA CyberCamps are coming soon – are you ready?!

AFA CyberCamps have been developed by the CyberPatriot Program Office as an opportunity for educational organizations to inspire students to take an active interest in cyber security and cyber safety. While CyberPatriot does not run the individual camps, local organizations recruit their own students and facilitate the camp sessions at their own sites. This is a fantastic opportunity to educate students about STEM in a unique and interactive way.

Last summer, schools and organizations hosted AFA CyberCamps all across the United States. Unfortunately, the first day of registration was met with such enthusiasm and interest that our camp capacity was full within hours. Demand has continued to be overwhelming, so much so that we have decided to open camp registration to a far larger number of camps for summer 2016.

Many students who have attended past AFA CyberCamps subsequently participated in CyberPatriot's National Youth Cyber Defense Competition, continuing to develop their interest and skills in cybersecurity and in STEM. Our generous Sponsors, Centers of Excellence and organizations have made the success of these camps possible nationwide by committing to promote CyberPatriot year-round. We hope you are able to participate in a local AFA CyberCamp in your area!

For more information visit uscyberpatriot.org under Special Initiatives or email afaCyberCamps@uscyberpatriot.org.

Registration is set to open mid-March.

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SPOTLIGHT: NATIONAL FINALS PREVIEW

NATIONAL FINALS EVENTS

CIAS / at&t	NETWORK SECURITY MASTER CHALLENGE including the AT&T Mobile Device Component
leidos	DIGITAL FORENSICS CHALLENGE
cisco	NETWORKING CHALLENGE
facebook	FACEBOOK CHALLENGE

28 TEAMS

2 COUNTRIES
11 STATES

ONE GOAL: WIN

Teams will compete to defend virtual networks and mobile devices from a professional aggressor team. The National Finalists will also face-off in three additional competition components: the Cisco Networking Challenge and the Leidos Digital Forensics Challenge, both of which return from previous seasons. Facebook will also be hosting a cybersecurity event which will factor into the teams' cumulative scores.

Spotlight: National Finalist Teams

Open Division

Team	City	State	Coach
Franklin High School – Excalibur	Los Angeles	California	Yenny Yi
Palos Verdes Peninsula High School – Team #2	Rolling Hills	California	Hassan Twiet
Cherry Creek High School	Greenwood Village	Colorado	Jocelyn Nguyen
Highlands Ranch High School - FalconBots	Highlands Ranch	Colorado	Nicky DeBolt
Highlands Ranch High School - FalconCMD	Highlands Ranch	Colorado	Nicky DeBolt
Vista Ridge High School - MegaCyberWolves	Colorado Springs	Colorado	Cynthia Olmstead
Sisler High School – Stack Overflow	Winnipeg	Manitoba	Robert Esposito
Loyola Blakefield – Dons CSC Black	Towson	Maryland	Steve Morrill
Poolesville High School – Falcons15	Poolesville	Maryland	Mark Estep
Summit Technology Academy – Team Sudo	Lee's Summit	Missouri	Lisa Oyler
Red Bank Regional High School – Team Maroon	Little Silver	New Jersey	Mandy Galante
Alamo Academies – Blue Team	San Antonio	Texas	Alyssa Trevino

All Service Division

Team	City	State	Category	Coach
Parkway High School – Panther Illuminati	Bossier City	Louisiana	Air Force JROTC	Bob O'Brien
O.W. Holmes High School/TX-781	San Antonio	Texas	Air Force JROTC	Colleen Curl
Winter Springs High School – Open Sourcerers	Winter Springs	Florida	Army JROTC	Joseph Pavone
Winter Springs High School – CyberBears	Winter Springs	Florida	Army JROTC	Joseph Pavone
Colorado Springs Cadet Squadron – Wolfpack	Colorado Springs	Colorado	Civil Air Patrol	Bill Blatchley
Cedar Rapids Composite Squadron – Overclocked	Swisher	Iowa	Civil Air Patrol	Marshall Barker
Monty Tech MCJROTC – Marine Raiders	Fitchburg	Mass.	Marine Corps JROTC	Paul Jornet
Marine Military Academy – Devil Dogs	Harlingen	Texas	Marine Corps JROTC	William Beckman
Fort Fisher Division	San Diego	California	Naval Sea Cadets	Joseph Gombos
Centurion Battalion – Team 1	Winter Park	Florida	Naval Sea Cadets	Ken Steffey
Patrick Henry High School – Blue Team	San Diego	California	Navy JROTC	John Wood
Troy High School NJROTC – Cyber Warriors 1	Fullerton	California	Navy JROTC	Allen Stubblefield
Troy High School NJROTC – Cyber Warriors 2	Fullerton	California	Navy JROTC	Allen Stubblefield

Middle School Division

Team	City	State	Coach
Oak Valley Middle School - CyberFalcon Millennium 360	San Diego	California	Paul Johnson
Robert F. Kennedy Community School - Crimson	Los Angeles	California	Luis Hernandez
Pleasant Lea Middle School - BSOD	Lee's Summit	Missouri	Kevin Schulmeister

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It's Never too Early! Consider a Summer Internship at Northrop Grumman

The relevancy of the CyberPatriot program has never been greater and competitors continue to exhibit the skills needed to succeed in the cyber profession. With CyberPatriot VIII well underway, it's not too early to start thinking about an internship with Northrop Grumman. Here, you can put your skills into action by working side by side with our technical experts to learn more about the career field and its impact on national security. You will learn new skills, explore our enterprise, network with experts, connect with thought leaders, and finish with a resume that opens doors.

Here's what you need to know to apply:

- High school level internships require students to be at least 16 years of age, enrolled in high school and studying areas of science, technology, engineering, and mathematics. CyberPatriot-specific internship opportunities require at least one year of participation in the CyberPatriot program and enrolled in technical high school electives within the areas of STEM.
- For college level internships we typically look for rising sophomores, juniors, seniors, and graduate students at accredited colleges and universities
- We look for high potential students of all grade levels and have internship opportunities for high school students
- Work assignments typically begin in May/June and end in August/September. There are some opportunities for interns to stay-on in a part-time internship capacity year round
- Included in many of our intern programs are orientation and kick-off events, networking opportunities with leadership and other interns, social activities, learning sessions and professional development opportunities.
- For more information about the intern program go to: http://www.northropgrumman.com/Careers/StudentsAndNewGrads/Pages/Cyberpatriot.aspx

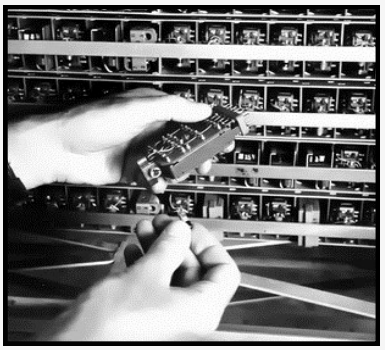
To find opportunities for CyberPatriots, go to this link and enter "CyberPatriot" in the keyword field:

https://ngc.taleo.net/careersection/ngc_coll/jobsearch.ftl?lang=en

Coaches' Corner

- **CyberPatriot VIII TIER Certificates. Tier certificates are digital awards reserved for** Gold and silver tier teams who placed in the top three within the State/Regional/Category Rounds. State round certificates were emails to coaches in late February. Regional/Category certificates will be emailed in mid-March.
- **CyberPatriot VIII AFA Awards. AFA Awards are hard-copy awards reserved for** the top three teams overall within the State/Regional/Category Rounds. AFA Volunteers (Region/State Presidents) are given the opportunity to present the awards to their local teams. If an AFA representative from your area chooses to do so, we will send the awards directly to them. Otherwise, awards will be mailed directly to the team coach beginning in mid-March.
- **THANK YOU!**. Thank you to all the coaches, mentors, competitors, parents, community supporters, and everyone else who made CyberPatriot VIII a great season! We hope to see you all again next year! (Don't forget registration for CyberPatriot IX will open April 1)

This Month In Cyber History



March 13, 1955 — On this day in history, AT&T Bell Laboratories announced the completion of the first fully transistorized computer, TRADIC (for TRansistorized Airborne DIgitial Computer). The computer was built by Jean Howard Felker of Bell Labs for the United States Air Force. TRADIC contained nearly 800 transistors, which replaced the standard vacuum tube and allowed the machine to operate on fewer than 100 watts, which is one-twentieth of the amount of power required by a comparable vacuum tube computer.

For more information, visit:
http://www.computerhistory.org/tdih/March/13/

Presented by: Northrop Grumman Foundation

Cyber Diamond: at&t, Cisco, Microsoft imagine cup

Cyber Gold: Riverside Research, facebook, splunk>, Symantec

Cyber Silver: Air Force Reserve, leidos, Embry-Riddle Aeronautical University Prescott, Arizona, Hewlett Packard Enterprise, UMUC University of Maryland University College