The CyberSentinel

53 65 63 75 72 69 6e 67 20 4e 65 74 77 6f 72 6b 73 2c 20 53 65 63 75 72 69 6e 67 20 46 75 74 75 72 65 73

Commissioner's Cache

May is finally here and while the school year is nearing an end, CyberPatriot VIII is just gearing up! In April we had the first Exhibition Round of the season and more than one-third of registered teams participated. Our AFA CyberCamps were so popular that all the slots were filled by the end of the first week of camp registration (more information on p. 4). The Coaches and Mentors Postseason survey is open and we appreciate your feedback. Also, the Coach and Mentor of the Year nominations are due this month.

In other news the CyberPatriot Program Office successfully supported the United Kingdom's Cyber-Centurion National Finals Competition last month. Eight teams from across the UK participated in the event, which was held in historic Bletchley Park. The Competitors were as intense as their CyberPatriot counterparts.

Thanks again to all Coaches, Mentors, Team Assistants, and Competitors for your role in making CyberPatriot VII a great season. We are looking forward to an even better CyberPatriot VIII! Register now to take advantage of the discounted registration fees and the upcoming Exhibition Rounds.

Bernard K. Skoch
National Commissioner
CyberPatriot
Air Force Association

Program Office Bits

CyberPatriot VIII Registration Is OPEN!

Exhibition Round: May 12-22

AFA CyberCamps!
(see p. 4)

Features

# Exhibition Rounds: The Fun Continues All Summer Long!

If you are looking for an opportunity to recruit team members and orient your organization to CyberPatriot, or to practice your skills, then the Exhibition Rounds might be just what you are looking for!

To participate in the monthly Exhibition Rounds a Coach needs only to register a team. Since it is a recruiting event, Competitors are not required to be registered. Simply register a team and wait for the StartEx email. It is that easy!

More than 180 teams participated in the first CyberPatriot VIII Exhibition Round in April. The May Exhibition Round will include Windows 7 and Ubuntu virtual images.

The images are basic to allow prospective team members to learn about the competition through a hands-on event. The scenarios in the images' Readme.txt files provide more clues to vulnerabilities than in the online rounds.

Register today, at the discounted rate, to participate in the monthly Exhibition Rounds.
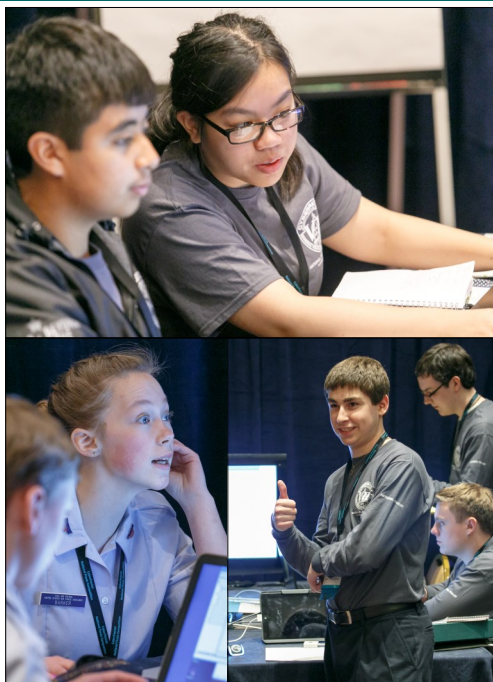
CyberPatriot VIII Schedule

Exhibition Rounds
May 12-22, 2015
June 9-19, 2015
July 14-24, 2015
August 11-21, 2015

Practice Round
October 13-27, 2015

Qualification Rounds
November 13-15, 2015
December 4-6, 2015

State Round
January 29-31, 2016

Regional/Category/MS Semifinals Round
February 19-21, 2016

National Finals Competition
April 10-14, 2016

It's Not Too Late to Apply for an Internship at Northrop Grumman!

Summer is quickly approaching, but it's not too late to apply for an internship! Would you like to make money doing a summer job you like? Then a Northrop Grumman internship may be for you. CyberPatriot Competitors receive priority placement for Northrop Grumman internships if they meet the following qualifications:

- Enrolled in and attending high school
- GPA of 3.0 or higher
- Computer science course work
- Must be at least 16 years of age
- Participated in the CyberPatriot Program
- Candidate must be a US citizen, DOD security clearance-eligible

NORTHROP GRUMMAN

For more information about the intern program go to: http://www.northropgrumman.com/Careers/StudentsAndNewGrads/Pages/Cyberpatriot.aspx

Find a list of current opportunities by entering "CyberPatriot" in the keyword field of the job search page.

Locations include: **Alabama:** Huntsville
California: Los Angeles, Redondo Beach, Sacramento, San Diego
Colorado: Aurora, Colorado Springs
District of Columbia
Maryland: Annapolis Junction, Baltimore, Woodlawn
Texas: Austin
Utah: Hill AFB
Virginia: Herndon, Falls Church, Fairfax, McLean

Questions?
Contact Northrop Grumman at CyberPatriot@ngc.com
(Please do not contact the CyberPatriot Program office with internship questions)

Copyright 2005 digital-topo-maps.com
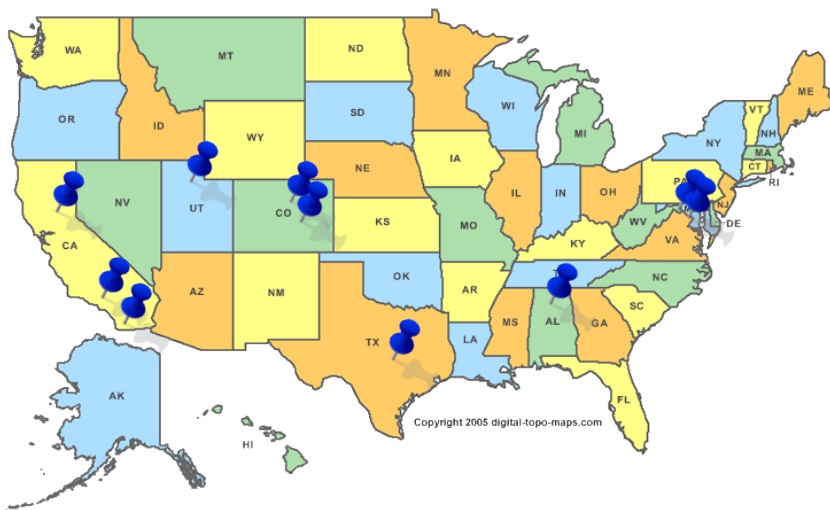
Another season, another great group of Coaches and Mentors! Submit your nomination for CP-VII Coach or Mentor of the Year before May 15, 2015!

Coach Nomination Form
Mentor Nomination Form

EARLY BIRD SPECIAL!
Register a CP-VIII team before July 1 and receive a discount off the registration fee!

Open Division:
~~$195~~ $155

Middle School Division:
~~$155~~ $125

Coaches' Corner

- **Online Coaches and Mentors Meetings.** The Coaches Meetings are a great time to ask any questions about CP-VIII! The first meeting will provide details in a slideshow, with a question and answer session afterward. The second meeting will have a shorter slide presentation and focus on questions from participants. Information on joining these meetings will be emailed a week before the first meeting.
  - May 12 — 4:30 pm ET/3:30 pm CT/1:30 pm PT

- **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.
  - May Exhibition Round: May 12-22
  - June Exhibition Round: June 9-19

- **Postseason Survey.** Coaches and Mentors should have received the CyberPatriot-VII Postseason Survey. Please take time to let us know how we can improve.

CyberPatriot Success Stories (A Few of Many!)

Emily Segler of W.B. Ray High schools humbly smiles as the crowd roars with excitement after hearing of her acceptance into the Massachusetts Institute of Technology!

All of the Grissom High School CyberSloths are planning to major in computer science in college and are mulling over acceptance letters from Duke University, Dartmouth College, Auburn University, and Massachusetts Institute of Technology, among others. The students are already getting hands-on-experience, with several members of the team now interning at Dynetics Inc. as malware researchers.

"Currently, Morgan, Matthew, and I are developing software that performs automatic static malware analysis," said team captain James Brahm. "It identifies code reuse in compiled binaries and is intended to aid in the identification and analysis of Advanced Persistent Threat malware. We presented some of our work at BSides, a local security conference, last February. In June, we are traveling to ShowMeCon in St. Louis to give an updated talk."

While their team name brings to mind a slow-moving mammal, their mascot is not indicative of the quick-witted team that obviously has a bright future ahead. *Article excerpt courtesy of www.theredstonerocket.com*

MIT-bound! — National Finals is a time filled with nerves, anticipation, and stress. Just ask Emily Segler of W.B. Ray High School. Throughout the chaos of the weeklong event, Emily had more to worry about than how her team would fare in the competition. For her, the most important announcement would come not at the Awards Banquet Saturday night, but in an email that Saturday morning.

That evening, as her team was exiting the stage after placing first in the Leidos Digital Forensics Challenge, CyberPatriot National Commissioner Bernie Skoch said, "I'm going to break script for just a minute here. Emily, will you please come to the podium? Earlier in the week, Emily told me she was waiting for some very important news. A few moments ago I heard that it's good news. Emily…?"

With a smile on her face, Emily stepped up to the microphone and proudly said, "This morning I found out I was accepted into MIT!" The cheers and applause from the audience were the loudest of the entire night.

Congratulations, Emily, and best of luck in your future endeavors!

CyberPatriot Competitor Recognized by NCWIT

By Terry Yeigh

John R. Rogers High School computer science student Jacki Craipo has been recognized by the Washington State National Center for Women and Information Technology (NCWIT) Awards Committee. This is the second time she has received this award, having earned recognition last year as well. She was selected as one of 20 Washington State Affiliate Award Winners for the Aspirations in Computing Award. The award was based on her being recognized for computing-related aspirations and accomplishments in addition to her solid leadership ability, her academic history, and her plans for postsecondary education. Jacki was the only girl from Eastern Washington selected, with the remaining girls from Western Washington high schools.

Jacki is the Captain of her CyberPatriot team which competes in a national competition to secure severs and networks from hackers, malware, and viruses. She is also a SkillsUSA member and represented John R. Rogers at the Washington State SkillsUSA conference as a state officer in Tacoma, Wash., in April 2015. Even with her busy schedule, Jacki maintains a 3.97 GPA while taking four advanced placement classes and one honors class.

Jacki's belief is: "In my personal experience, leadership is shown not through putting oneself out into the world, but in helping others. Whether it is through assisting them toward achieving their goals or helping strangers toward a better future, community service is the best way anyone can show leadership in their school and community." A very well rounded individual and a fine person to know, we all expect that Jacki will do well in the future. This award and recognition is well-deserved.

AFA CyberCamps Go Live!

It is with great excitement that CyberPatriot announces the launch of the inaugural season of the AFA CyberCamp Program. Created to supplement the National Youth Cyber Defense Competition and to allow educational institutions to engage students in cybersecurity education throughout the year, the program includes curriculum and software kits designed to introduce novice students to cyber ethics, online safety, and fundamental Windows and Ubuntu security tools.

CyberPatriot conducted several successful CyberCamp pilots at Texas Woman's University, Chantilly Academy, and Texas A&M San Antonio last summer, and is pleased to make AFA CyberCamp Kits available to schools and educational organizations nationwide during the inaugural season this summer.

Due to very high demand, the CyberPatriot Program Office in no longer accepting CyberCamp requests for summer 2015. Please stay tuned for more information on when we will begin taking new requests.

More information on the AFA CyberCamp Program is available under the "Special Initiatives" tab of the CyberPatriot website.

Standard AFA CyberCamp Kit

Five four-hour instruction modules, accompanying instructor's guides, student workbooks, demonstration software, and competition software that will teach students important skills in cyber safety and cybersecurity

- **Module 1:** Introduction
- **Module 2 :** Cybersecurity principles, virtual machines, basic Windows security policies and tools, and account management
- **Module 3:** Windows file protections, auditing and monitoring, introduction to Server 2008, and introduction to Linux
- **Module 4:** Ubuntu terminology and concepts, basic graphical user interface security, basic command line security, and intermediate Ubuntu security
- **Module 5:** Mock competition

AFA CyberCamp Competition Kit

The AFA CyberCamp Competition Kit consists of a mandatory 30-minute cyber ethics module, accompanying instructor's guide, and access to one or more CyberPatriot competition images on the requesting organization's scheduled competition day: novice Windows 7, novice Ubuntu, intermediate Windows 7. The Competition Kit is designed to complement locally developed curriculum or training regimens for the CyberPatriot National Youth Cyber Defense Competition.

Note: *The AFA CyberCamp Curriculum Kit and Competition Kit are aimed at improving students' cybersecurity knowledge, not their ability to score points in CyberPatriot competitions. The CyberCamp curriculum is best suited for **novice** students of cybersecurity.*

CyberCamp Kit Costs
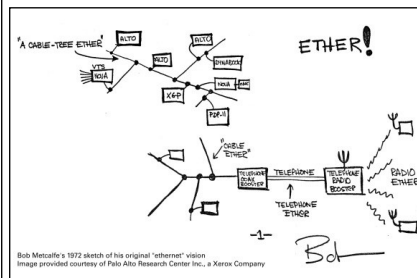
Standard CyberCamp Kit = $1050
CyberCamp Competition Kit = $450/image

AFA's CyberPatriot Program Office will also provide hard copies and other materials at the rates listed below.
- Student Workbooks: $4/copy
- Instructor's Guides: $50/complete printed set (all five modules)
- AFA CyberCamp T-shirt: $5/shirt
- CyberPatriot Sunglasses: $3/pair

This Month in Cyber History

Bob Metcalfe's 1972 sketch of his original "ethernet" vision
Image provided courtesy of Palo Research Center Inc., a Xerox Company

May 22, 1973 — Robert Metcalfe, a researcher at the Xerox Palo Alto Research Center in California, wrote his original memo proposing an "Ethernet," a means of connecting computers together. Metcalfe described the document, typed out on an IBM Selectric typewriter, as follows: "Ether Acquisition" ... heavy with handwritten annotations -- one of which was "ETHER!" -- and with hand-drawn diagrams -- one of which showed `boosters' interconnecting branched cable, telephone, and radio ethers in what we now call an Internet… If Ethernet was invented in any one memo, by any one person, or on any one day, this was it."

For more information, visit: www.computerhistory.org/tdih/May/22/